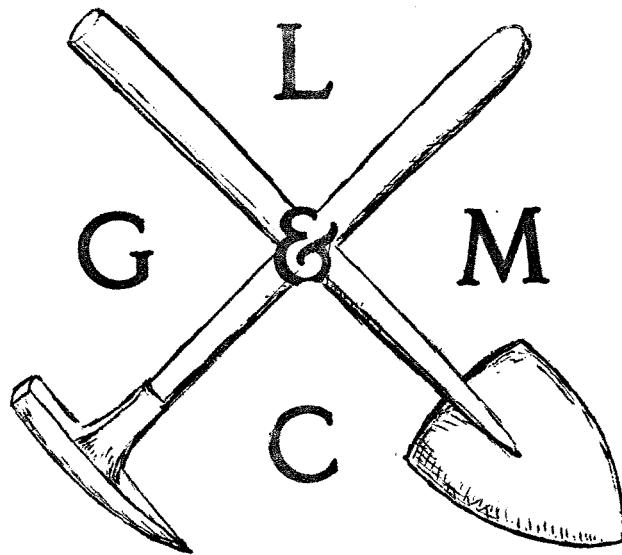


THE PICK & SHOVEL



DEC 1972

OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB

HOST OF COMBINED

MWF-AFMS NATIONAL SHOW AND CONVENTION
AND NEBRASKA STATE SHOW

JUNE 13-16, 1974
LINCOLN, NEBRASKA

GREETINGS

TO OUR 1973 OFFICERS -

Rober Pabian, President
Ralph Ulrich, 1st Vice-President
George Balke, 2nd Vice-President
Tam Dutcher, Treasurer
Nelda Oliver, Secretary
Don Eckel
Jim Parks
Tom Simmons
Howard Taylor

Board Members

and BEST WISHES from -

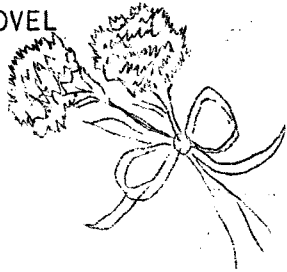
1972 Officers
Marie Wells
Roger Pabian
Ralph Ulrich
Tam Dutcher
Luella Paul
Irl Everett
Jim Parks
Tom Simmons
Howard Taylor

GOOD LUCK

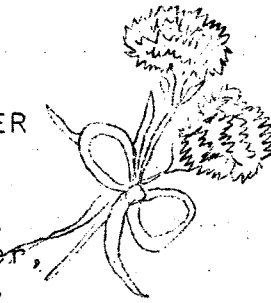
IN THE NEW YEAR

from YOUR EDITORIAL STAFF --

Norma, Glenna, Phyllis, Jim, Kathy, Marie, Kay, Evelyn,
Marie & Lynn, Luella, and everyone else who has been
associated with the PICK & SHOVEL



BOUQUETS ARE IN ORDER



Famed U.N.L. Scientist,
L.G.M.C. honorary member,
and long-time friend,

Dr. C. Bertrand Schultz, Director of the University of Nebraska State Museum for 30 years, will be presented the 48th Kiwanis Distinguished Service Medal on Friday, December 1st, at the Kiwanis Club noon meeting.

His career with the University spans 41 years since his college graduation in 1931. In 1941 he was made Director of the Museum. Under his direction the Consolidation of the systematic biological research collections took place. The collections were stored in various places but now are primarily in Nebraska Hall on the University of Nebraska-Lincoln campus where they are available to faculty, graduate student and scientist throughout the world for study and research.

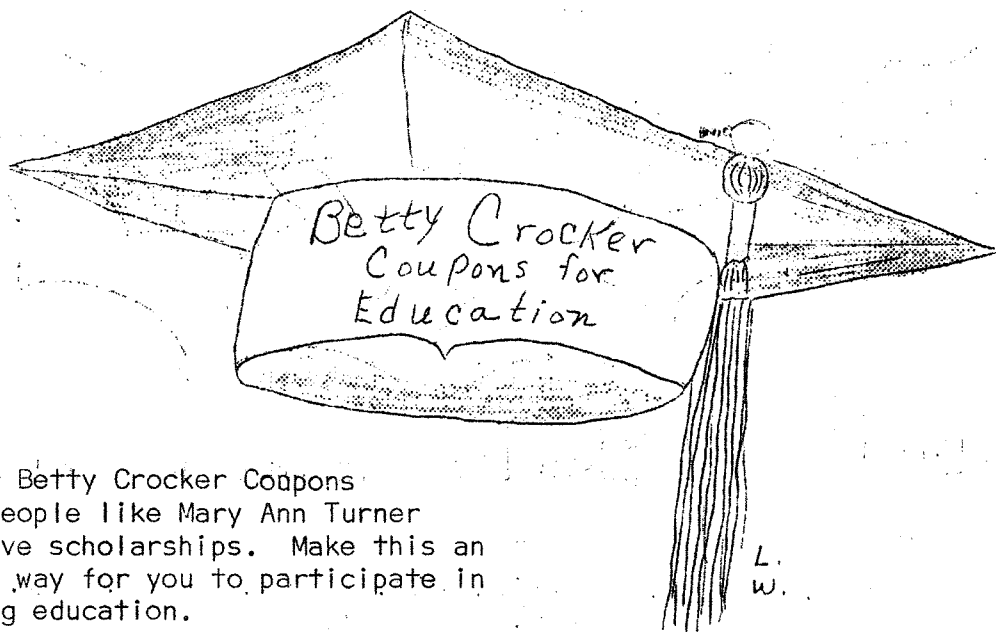
Under his direction the Health Galleries and Planetarium were added. Elephant Hall is the top attraction with the Hall of Space now being planned. (This will really be something else, too. Ed.)

Along with his many scientific honors, too numerous to list here, he has lived in and helped develop the Belmont community since 1941.

On May 6, 1971, the State Legislature passed a resolution designating May 30, 1971, as C. Bertrand Schultz Day! (Quite an honor!!)

Our Contragulations to you Dr. Schultz - you are one of the greatest!

PROGRESS THROUGH EDUCATION

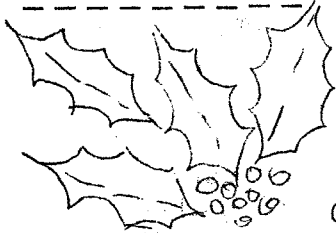


Save your Betty Crocker Coupons so more people like Mary Ann Turner can receive scholarships. Make this an important way for you to participate in continuing education.

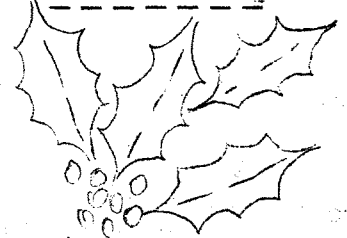
Bring the coupons to the meeting and give them to Helena to swell the count.

Marie Wells

THE PICK & SHOVEL



DECEMBER 1972



CALENDAR

CHRISTMAS PARTY...7:00 PM Dec. 9, 1972
WOW Meeting Hall, 724 S. 27th

Catered dinner by Don Eckel. Make your reservation now or no later than Dec. 4, @ \$1.75 each, for ham or chicken dinner, with Norma Miller or Glenna McGinnis.

Everything is furnished and should be um-um good!!! See you at the party
Gift exchange...bring a gift if you wish to receive one...value of at least \$1 and not to exceed \$2, marked man's or lady's, and have a pleasant surprise.

No Business Meeting but there will be the installation of the new 1973 officers.

PROGRAM...slides and commentary by Frank Rule of some of his experiences and adventures these past months. Also carol singing like an old-fashioned Community Sing.

ROCK FEATURE...for December will be the 'small gift shower' for our friend and club member Harry Gragg, to be packed and sent by the John Lewis Family before Christmas.

SECOND FEATURE (since our display table will be used for eating purposes) will be the ROCK JEWELRY of your choice and be prepared to brag a little. If you don't have any jewelry put a pocket piece in your pocket - but bring a rock!

SPECIAL PROJECT...Please bring a small gift for our absent member (as mentioned above) tooth paste, sugarless gum, kleenex, ball point pen, etc., for a surprise Christmas package...just remember this member is a diabetic.

MUSEUM VOLUNTEERS...Every Friday night, 7:30 PM sharp, Nebraska Hall, west entrance

NEW MEMBERS...Bob & Carol Anderson, 5006 Meredith 68506 ph 488-6809
Grant S. Quinn, 2701 N. 70th, Bldg. B, Apt. 26 68507 434-5357

CHANGE OF ADDRESS...A. R. "Rick" Shalberg, 11940 San Vicenta Blvd., Los Angeles, CA 90049

DATES TO REMEMBER:

Dec. 3, 1:00 PM-4:00 PM, Youth Center, Harmon Park, 2030 Fifth Ave., Kearney, Nebr.
called meeting by 1974 Steering Committee with NAOESCI clubs

Dec. 5 7:30 PM, Nebraska Hall, regular Steering Committee Meeting, (rm 122).

Dec. 7, 7:30 PM, 5343 Cooper (home of Tam Dutcher), regular Board Meeting to include members of 1972 and 1973 Officers. (That's you-all, ya hear?)

Dec. 9, 7:00 PM...don't forget our Christmas Party listed above...it will also be our celebration of the 25th Anniversary of the American Federation...come and celebrate two parties at the same time.

Mar. 2-4, 1973 Greater Kansas City Gem & Min. Assn. Show, Armory, Kansas City, Kans.

Mar. 16-18, '73 S. Cent. Fed. Show, Villita Assembly Bldg., San Antonio, Tex.

May 12-13 '73 LINCOLN GEM & MINERAL CLUB ANNUAL SHOW, EXPOSITION BLDG., STATE FAIRGROUNDS, LINCOLN, NEBRASKA

June 15-17 '73 California Federation Show, County Fairgrounds, Turlock, CA

June 15-17 '73 Rocky Mountain Federation Show, Oklahoma City, Oklahoma

June 28-July 1 '73 AFMS & Eastern Federation Show, Charlotte Merchandise Mart, Charlotte N

Jul 26-29 '73 MWF Show, Cincinnati Convention-Exposition Center, Cincinnati, Ohio

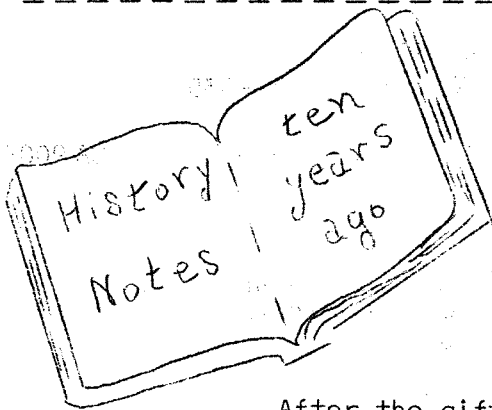
Merry Christmas Happy New Year

Last Month...The November meeting was held at Morrill Hall Auditorium... a great place to hold a meeting with seats comfortable, a stage for conducting business and for 'show and tell'. (This location should be tried at another general meeting to see if we enjoy the facilities when we aren't scheduled for a sky show). Election of officers was held (see our greeting page for names of new officers and Board members.)

Guests were Glenda Carnes; Stephanie, Johnny, Kelly and Ladd Harrison; Bud Olson; Mr. & Mrs. Lewis Stroud and family; Barb Schoenrock; Mr. & Mrs. R. D. Edmunds and Bobbie, Carolyn Brauer, Mary Ann Turner (receiver of the MWF Scholarship) and Dr. & Mrs. C. Bertrand Schultz. There were 62 members present.

The By-Laws change (as printed in last month's bulletin) was passed. Request was made for more specimens for the blind display at Chet Ager Nature Center. Bring yours to Lynn Wells who is handling this project if you wish to donate. Request was made by Roger Pabian for a Huntsville, Alabama club asking for minerals for their museum's educational display. Your donations will be appreciated by Roger. And a request was made by Dr. Schultz for donations of Lake Superior agates to be displayed along with the Tod Ashmun Memorial. These can be any size and preferably Nebraska, Kansas, and Iowa. He would also like a map showing where Lake Superiors are found.

The program was a visit to the Planetarium in the same building, to view the Sky Show titled "Prairie Skies". It was most enjoyable and relaxing to see our night-time sky and hear the various sound effects. You realize a bit how great the stillness and beauty of night really is and can be.



A Christmas pot luck dinner was attended by forty-one members and twenty guests.

The following officers were elected:

President	Marie Carveth
First Vice-President	Tom Simmons
Second Vice-President	Everett Weber
Treasurer	James Parks
Recording Secretary	Phyllis Parks

After the gift exchange, carols were sung. directed by Lois Marie Gibson and Helena Baegl.

from the Notebooks of Frances Tracy, Historian

DEADLINE FOR JANUARY BULLETIN...January 10, 1973.

MANY THANKS to Jim Parks for all the drawings of various show cases in last months P & S Next month I hope to have Don Carter's revised drawing in for your convenience.

CONSERVATIONISTS...for your convenience a recycling station for clear glass jars and bottles, flattened tin and aluminum cans, and newspapers, is open from 10 AM to 4 PM every Saturday at the parking lot south of the City-County Bldg. at 555 S. 10th. It is manned by dedicated ecology people who help you unload your items. Do your part... save newspapers instead of burning or throwing them away, wash tin cans, remove labels and flatten them, and remove labels from clean glass jars. It's our future and the future of our children we must prepare for...so get with it...save your empties and let someone use them...it's worth the effort.

There are no LGMC Board Meeting minutes this month as the meeting is not scheduled until after the bulletin goes out. That's what happens when we advance the meeting date...some things get loused up. We'll catch up next month...OK?

In the meantime here is a report by LGMC Treasurer:

According to the Articles of Incorporation Article V it states:

"The club and its activities shall be maintained, kept and operated through the payment of membership fees and annual dues in such amounts as may be provided by the By-Laws."

And according to the By-Laws Article I, Section 2 (b) it states:

"Membership dues shall be \$3.00 per year, payable January 1. A fee of \$1.00 plus \$3.00 annual dues will be paid by each adult applying for membership. A fee of \$1.00 plus membership dues of \$1.50 will be charged adults applying for membership after July 1."

To cut down on expenses efforts are being made to secure a cheaper place for hall (or meeting place) rent. If these efforts are exhausted without results it would then seem necessary that some other changes will need to be made.

-Tam Dutcher, Treasurer

(To help you give this some further thought-study the 'pie' which Tam drew up and included in last month's bulletin, and the explanation which she furnished then. There's room for thought. Ed.)

A PLEA FOR COOPERATION FROM YOUR LIBRARIAN...To date (Nov. 29) some books which were checked out by club members have not yet been returned!! To get the records in order and take a proper inventory it is important and necessary that these books be returned at the December meeting on the 9th or get them to one of the officers, or to the librarian...but get there before Christmas! This is our club and these are our books, and to be fair to all members we should strive to use and return books promptly so that everyone can profit. The books in question are: Geology by Field; Jewelry by Borin; Minerals Yearbook 1947 by Pehrson; Minerals and Rocks by Pearl; Collecting Rocks and Minerals by Jensen; Fossils, An Introduction To by Mathews; Western Gem Hunters Atlas; Young Idea by Jay E. Farr (2 copies)

SHOP HINTS: We all try to achieve the perfect polish - for a true test, use a 10 power lens on the polished surface. If you can focus it, the stone is not polished perfectly since there must be some tiny scratches or defects on which to focus the lens.

L. J. & Agatha Hines via Kyana Gemscoop

AND FOR BETTER SERVICE from your polishing wheel after 50, try cranberry juice!

Your Editor has had a bout with severe sore throat but good medicine in the form of a new 1973 Satellite Sebring Plus sits in the garage waiting to go for a spin! Really nice!!! It makes the discomfort easier to take, no?

THE PRESIDENT'S MESSAGE

The year is nearly over and I wish to express my sincere appreciation and thanks to you for permitting me the privilege to serve as your president. I am greatly indebted to my committee members who serve so capably and relieved me of much responsibility, to the Board for their support, and to the club members for your encouragement and cooperation. To my husband many thanks for putting up with me and being so patient.

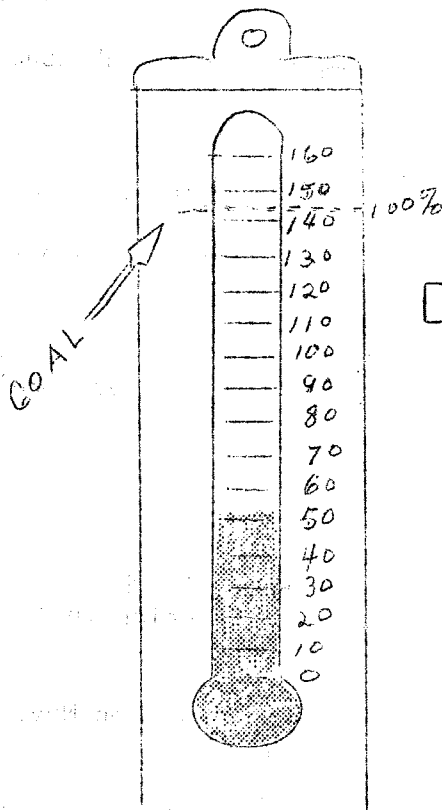
The club has grown in membership and great stride is being made toward a successful presentation of the 1974 Show. In addition, the Show and Tell portion of our programs has been especially inspiring and rewarding.

To my successor, Roger Pabian, I wish success and the cooperation I have enjoyed.

In closing I wish to quote Henry Ford - "Coming together is a beginning, keeping together is progress, working together is success," and recommend that the club adopt the theme proposed for the MWF by the new President, Lee Kirby, "Progress through Planning and Participation."

May each of you receive the love of Christmas and the ensuing year bring nearer the hope and joy of peace.

Marie Wells, President

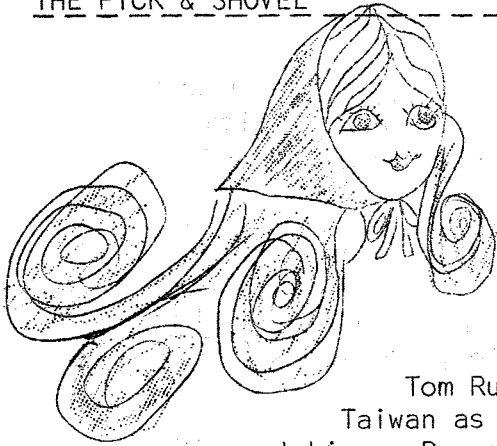


DUES ARE DUE
DUES ARE DELINQUENT
JANUARY 1ST

Our goal 146 paid up members Dec. 31st.

Let's go over the top and lift the top right off the thermometer.

Tam Dutcher, Treasurer, 5343 Cooper, will look for your check by mail or you may bring it to the Christmas Party on Dec. 9th...



GLENNA'S GLEANINGS

Garry Heedick was promoted to Cadet Airman in the Air Force R.O.T.C. at the University of Nebraska this past month...Congratulations!

Sympathy is extended to Luella & Ewald Paul in the passing of his brother in mid-November.

Tom Rule will be arriving in the States after a tour on Taiwan as a member of the Navy C.B's. Frank will go out to meet him on December 4th and they will drive home together.

Susan Taylor had eye surgery last month but is now feeling fine, her mother tells me.

Rod Woodcock wrote he would be in Lincoln over the Christmas holidays from school in New Mexico and that he has acquired a collection of 369 pairs of geodes lately.

Member, Harry Weakley, of 2111 N. 57th, 68505 (ph 466-5864) has been hospitalized recently with a stroke. Let's rally round with words of cheer.

Services were held during Thanksgiving week for the brother of Hazel Baumeister. Sincere sympathy to her and Dean.

Many members noticed the articles in the Journal newspaper recently about Florence Boring and her exciting adventures in obtaining her flying license on Okinawa.

Lois Everett has been on the sick list recently. Seems "ole flu bug" done caught her. Hope this issue finds her "in the pink" again.

Frances Tracy reports Maurice has been feeling poorly this past week. I am sure he would appreciate hearing from his rockhound friends. Hang in there, Maurice!

Don't forget your small gift for our veteran friend, Harry Gragg, when you come to the Christmas dinner party.

ALSO - remember to make prepaid reservations by Dec. 2nd and join the crowd for that event! Bring a gift for exchange if you wish to receive one, marked "man's" or "ladies" accordingly, value not to exceed \$2.

Pick up your complimentary copy of the new Rockhound Magazine from George McGinnis at the next meeting.

Gary Jeurink, son of Tim & Gladys, was top individual choice in the Journal & Star All-City Selection for Gymnastics. Also State all-around champion in that category. Real great! Congrats!

And how about that half-page feature article in the Morning Star on Nov. 27th... publicity doesn't hurt much does it Marie & Tom, for LGMC?

Just received the Dec. '72 issue of Lapidary Journal...please turn to page 1376 for some kind words by June Zeitner for Lincoln Gem & Mineral Club-that's not hard to take either, and much appreciated, June.

Till next time-Glenna McGinnis

Dear Fellow Club Members:

I have been reading a very interesting book entitled, "THE CURIOUS LORE OF PRECIOUS STONES" by George Frederick Kunz- Copyright 1913 by the J. B. Lippincott Company, Renewal, 1941 by Mrs. Ruby Kunz Zinsser. I have received permission from J. B. Lippincott Company to share some of this information with you.

I was interested in learning that the custom of wearing natal stones probably originated with the Jews who had used precious stones in connection with their worship.

God commanded Moses to have holy garments made for Aaron the high priest. In Exodus 39:8-15 there is an account of how the breast plate was made. Twelve precious stones were set in the breast plate and the names of the twelve tribes of Israel were engraved on the stones. There was a stone for each tribe.

The order in which the stones were set as follows:

- 1st row - sardius, topaz, carbuncle
- 2nd row - emerald, sapphire, diamond
- 3rd row - ligure, agate, amethyst
- 4th row - beryl, onyx, jasper

According to the Jewish historian, Josephus (37-95 A. D.) the stones were perhaps 2 x 2½ inches in measure and rich color was more desired than perfection.

The original stones were probably red jasper, light green serpentine, green feldspar, almandine garnet, lapis lazuli, onyx, brown agate, banded agate, amethyst, yellow jasper, malachite, green jasper or jade. They were said to have miraculous quality. Light emanated from them when God was present at sacrifices, or with them in battle. With transgression of the laws, the stones ceased to emit radiance.

Josephus, who wrote in the first century of our era, and St. Jerome, who wrote in the early part of the fifth century, proclaim a connection between the twelve stones of the high priest's breast plate and the twelve months of the year, as well as the twelve zodiacal signs.

In Revelation the foundation stones for the New Jerusalem were given in this order: Jasper, sapphire, chalcedony, emerald, sardonyx, sardius, chrysolite, beryl, topaz, chrysoprasus, jacinth, and amethyst. Here they are assigned to the twelve apostles instead of the twelve tribes of Israel. The first stone was assigned to St. Peter and to the month of March, which at that time was the first month of the year. The succession of natal stones for the months was determined by the order of the foundation stones.

Many centuries later changes were made in the order of the stones, probably in Poland by rabbis or Hebrew gem traders. Substitution of stones were made as follows: Turquoise for December, ruby for July, and diamond for April.

It is said that well-to-do Jews have carried many precious stones with them in their wanderings, and that the fashion of wearing natal stones may be attributed to them.

Continued next page

"THE CURIOUS LORE OF PRECIOUS STONES" continued

As the popularity of wearing natal stones increased, attention to the use of choicier material and better cutting also increased. Symbolism also was strengthened. At first early Christians did not favor this tradition. Opposition weakened at the time Christianity became practically universal in the Greek and Roman world.

Zodiacal signs were assigned to the tribes by the Jews of Medieval times. They are:

Judah - Aries	Ephraim - Libra
Issachar - Taurus	Manasseh - Scorpio
Zebulun - Gemini	Benjamin - Saggitarius
Receben - Cancer	Dan - Capricorn
Simeon - Leo	Naphtali - Aquarius
God - Virgo	Asher - Pisces

In August of 1912 the National Association of Jewelers suggested and adopted the following list of natal stones:

January - Garnet	July - Ruby
February - Amethyst	August - Sardonyx - Peridot
March - Bloodstone - Aquamarine	September - Sapphire
April - Diamond	October - Opal - Tourmaline
May - Emerald	November - Topaz
June - Pearl - Moonstone	December - Turquoise - Lapis Lazuli

Astral stones do not exactly coincide with the monthly division.

Zodiacal gems are:

Aquarius - Jan. 21 - Febr. 21 - Garnet
 Pisces - Febr. 21 - March 21 - Amethyst
 Aries - March 21 - Apr. 20 - Bloodstone
 Taurus - Apr. 20 - May 21 - Sapphire
 Gemini - May 21 - June 21 - Agate
 Cancer - June 21 - July 22 - Emerald
 Leo - July 22 - Aug 22 - Onyx
 Virgo - Aug 22 - Sept. 22 - Carnelian
 Libra - Sept. 22 - Oct. 23 - Chrysolite
 Scorpio - Oct. 23 - Nov. 21 - Beryl
 Sagittarius - Nov. 21 - Dec. 21 - Topaz
 Capricorn - Dec. 21 - Jan. 21 - Ruby

Evelyn Ulrich, Educational Committee Chairman

SPEAKING OF PROGRAMS: I asked our calling committee to question members about the programs used in 1972 and discovered they were not making as great an impression as every program chairman has hopes of making. It was suggested that we provide a list of said programs to refresh our memories in hopes of getting some opinions. Here is a recap--

January-REVIEW-PREVIEW about LGMC activities

February-FOSSIL PREPARATION presented by Karen & Charles Messenger

March-LIZZADRO MUSEUM, slide presentation from Midwest Federation

April-SHOWCASE 1972 presented by Margaret & Roger Simmons with a printed outline for each family

May- BAND MUSIC by The Olivers and Friends at our picnic

September-MUSEUM OF ANTHROPOLOGY IN MEXICO CITY by Vern Montgomery

October-GEMS & MINERALS OF THE SMITHSONIAN, slides by Lee Boltin

November-PRAIRIE SKIES at the Planetarium in Morrill Hall

submitted by Phyllis Parks, Program Chairman

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BANKAMERICARD

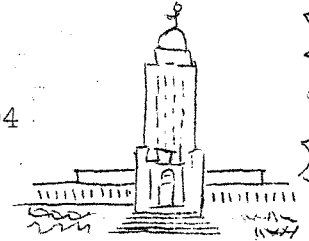
OUR BEST WISHES

and

LOTS OF HAPPINESS

FOR 1973

The Everetts



"SATISFIED CUSTOMERS ARE OUR BEST ADVERTISEMENT"

The 1972 program committee wishes to thank each and every member who contributed to "ROCK FEATURE" of the month during the year. We have received many favorable comments on the excellent materials which you brought to share. We hope you will continue with some form of "See and Share" in the future. Let your incoming officers hear from you on this and any other constructive ideas which you may have. Help them to plan your programs with you in mind.

Our thanks to Evelyn Ulrich, Educational Chairman, for her preparation of outlines to use in discussion of our Rock of the Month. Wish we could have taken more time in those discussions each month.

A special thank you to the Refreshment Committee Margaret and Roger Simmons and Marge Heedick for their very huge effort and inconvenience in transporting equipment and serving our November refreshments to enable us using Morrill Hall for our meeting so that we could plan the sky show. I hope that everyone enjoyed being at Morrill Hall as much as I did.

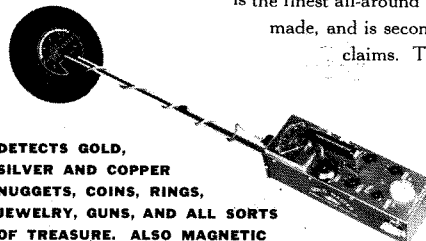
Phyllis & Jim Parks and Norman Balliet

*Merry Christmas
Lee Pavel*

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FLUORESCENT MINERALS AND BLACK LIGHT

by Evelyn Davis

Black light is the popular name for near-ultraviolet radiant energy. The label is not very accurate, though, as it is not really black and it is not light but energy. The human eye is not sensitive to it. The term "black light", however, has been so universally accepted that it is here to stay.

The property of changing invisible ultraviolet light or X-ray beams to visible light is known as fluorescence and in some cases the light continues to glow after the stimulating source is removed and this is called phosphorescence, which is more rare. Not all specimens of a fluorescent material will fluoresce as it is dependent on the impurities present. Sometimes they will respond after heat-treating.

The ultraviolet spectrum has a long range - from a wave length that is just beyond visible light to a very short ray near the X-ray end of the spectrum. The main sources of man-made black light are the fluorescent and mercury lamps, with the sun being the natural source of radiant energy.

When black light falls on certain materials it makes them emit visible light. What actually occurs is a conversion of energy. The black light which falls upon the fluorescent surface is absorbed and then re-radiated at longer wave-lengths to which the human eye is sensitive. So, surfaces that contain or are treated with fluorescent chemicals glow when irradiated by this energy. Very often the dullest and least attractive materials are the brightest and most effective when activated this way.

There are many types of black light but most sources produce some visible light along with the ultraviolet. This visible light is undesirable for most purposes and must be filtered out so as to illuminate only the objects to be viewed and not their surroundings. The fluorescent material should be placed on a dark background to increase the contrast and, of course, the darker the room the brighter the fluorescence.

In most lights in common use the filter is an integral part of the lamp. Cost of equipment is apt to vary with the amount of visible light present, the most expensive having the least. It is possible to filter almost all of the visible light and a great deal of the ultraviolet, but for the average uses, some visible light can be tolerated. There are two wave lengths of ultraviolet light. Some materials respond to the short wave and some are activated more by the long wave. Some materials respond to either, although the results may be quite different. The effect of different materials varies from a cold white glow to brilliant greens and fiery reds along with shades of yellow, orange, blue and purple in varying degrees of intensity.

The weirdly beautiful and dramatic effects made possible by black light accounts for its popularity in the fields of decoration, display, advertising and entertainment. We are all familiar with these applications. Black light makes it possible to see things that could otherwise not be seen and so its use in industry is rapidly expanding. Black light has been used by prospectors and geologists for many years as an aid in detecting and identifying minerals and more recently has come into wide use by hobbyists.

Continued next page

FLUORESCENT MINERALS AND BLACK LIGHT continued

But to the average hobbyist the use of this medium is limited to its shock value or its beauty.

Most of the industrial applications of black light have to do with inspection or identification. More and more companies are finding that this enables their inspectors to see things that were impossible to detect before and also makes the job much faster.

Cast or machined parts are sprayed or immersed in a penetrant containing a fluorescent dye; the excess is wiped off and the parts inspected under black light and the surface defects are plainly seen. Leaks in hydraulic systems, tanks and pipelines are easily detected by adding a fluorescent tracer to the liquid in the system or, as in the case of oils, using their natural fluorescence. Inspection of airplane fuel tanks and refrigeration systems are examples.

Manufacturers and contractors often mark their products in a distinctive way, thus enabling quick and positive identification of the culprit by black light in case of defective parts or those not meeting specifications.

Fluorescent lamps are being used successfully in the inspection of various foods such as pecan nuts. The meat fluoresces a deep blue while the pecan borer glows a brilliant white. In visible light they are the same color and would most likely go unnoticed.

Contamination of flour and grain by liquid excreta of rodents is easily detected under black light. Enriched flour is tested for riboflavin content in the same manner. Molds and fungi are plainly visible under fluorescent lamps. Seed beans are tested this way as the meat fluoresces but the hull does not so breaks in the hulls are easily detected. Sour eggs show up blue or green.

Black light makes possible the use of invisible laundry markings which is highly desirable from the standpoint of appearance and makes stamping much quicker and easier.

Fluorescent lamps are used in some photoreproduction processes such as blueprinting. Sanitation inspectors in restaurants, dairies, etc. have found it very effective to track down rodents, to reveal food and grease left on utensils and to check restrooms for cleanliness.

Dried blood fluoresces, a fact which is very useful in crime detection. The use of fluorescent powder as a means of criminal apprehension is very common. Money, securities, jewelry and other valuables are dusted with a very fine powder that rubs off on hands and clothing and leaves its tell-tale mark of identification.

There are ultraviolet units that operate practically cold for use in hospital operating rooms, air conditioning systems and as germicidal lamps. (It is also used to color old glass purple.) Black light has been used for many years in the medical and biological fields, chiefly for diagnostic purposes and this is one instance when it is necessary to filter out practically all the visible light and use a high intensity near ultraviolet energy.

Continued next page

FLUORESCENT MINERALS AND BLACK LIGHT (continued)

One use of black light not requiring a filter is in insect traps. The eyes of many night-flying insects are highly sensitive to ultraviolet as well as to the shorter wave lengths of visible light so filters are unnecessary for this use.

Very few fossils fluoresce but a great many items in every day use do - paper, ink, plastics, synthetic fibers, detergents and materials washed in them and many more.

The long wave fluorescent tube which is most often used in display cases is not harmful to the eyes but never look directly at a short wave light. The results are like a really bad sunburn to the eyes and damage from this source can be serious.

END OF THE LINE...per AFMS Newsletter...a letter has been received from the management of the Gray Quarry in Hamilton, Illinois, advising that they have decided to end all hunting in their quarry. This well known quarry has produced some of the finest geode specimens ever found. The letter from the quarry manager, R. G. Blackledge, explains, "We, Gray Quarries, Inc. of Hamilton, Illinois, a long-time quest of your members and affiliated clubs, can no longer permit rock hunters to trespass on our property. We were reluctantly forced to this conclusion because of the large numbers of people involved and the burden and expense of liability involved. We would appreciate your forwarding this message to everyone associated with your Federation. We would not like to see any members of the clubs associated with you make a long trip only to have it end in disappointment." (And so there you have it...sad news...dateline December, 1972. Ed.)

A NEW OWNER AND EDITOR...per AFMS Newsletter, Dec., 1972...One of the nation's best earth science magazines has a new owner and editor, effective January, 1973. He is Richard Pearl, a founder of the AFMS, widely-known writer on gems and geology, and for many years professor of geology at Colorado College, Colorado Springs, Colorado. The magazine is Earth Science (and LGMC is currently receiving the publication in our library) which has belonged to several members of the Midwest Federation and has been ably edited by Earl and Mary Cornwell.

A copy of Mr. Pearl's book, Colorado Gem Trails and Mineral Guide, was presented to Phyllis Parks as editor when she won First Place in the MWF Bulletin Contest in 1967, is in our library. Professor Pearl plans to develop systematic features and emphasize educational aspects of the mineral hobbies and sciences throughout the whole range of earth science interests. An interesting magazine for all earth science enthusiasts covering many aspects of paleontology and geology not covered by the other magazines. Its address is Box 550, Downers Grove, IL 60515.

THE GLOSSARY OF MINERAL SPECIES, a recognized authority for use of judges under the Uniform Rules of AFMS, is for sale for \$1.20 per copy to regional federation clubs that order 10 copies at a time. (regular price is \$2). So far as the corrections are concerned it is suggested that each club Xerox them from the magazine and pass the Xerox copies along to members. The editor, John S. White, Jr., recommends that judging would be easier and more consistent if the Glossary were made the authority for minerals. (via AFMS Newsletter, in part, from December, 1972 issue).

Midwest Federation's NEWSLETTER

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should be sent to P. O. Box 1130, Des Moines, Iowa 50311



Issue No. 130 - December 1972

Messages From Our New and Retiring Presidents

From Your Retiring President
B. F. (Barney) Parr

A year ago when I took over as President, I was apprehensive or, to be frank, plain scared. However, with the help of the other officers, committee chairmen and members, and our fine clubs, most things proved easier than anticipated. I didn't do all that I had hoped but believe that progress was made. We have the 501 (c)3 tax exempt status but I want no credit for that. Thanks are due Cal George and Jay Wollin. Our very marginal financial situation has been eased and the whole Federation deserves credit for facing up realistically to the problem. We have added several new clubs and additional members.

It has been a rewarding year for me in several ways. First of all, I have gained increased respect for the underlying strength of the Federation, our people. Then too, I have had a better chance to compare the operation of MWF with the other federations and I feel we are tops. The many new friends made is reward in itself. I have particular appreciation for our Past Presidents, some of whom have been out of office many years. Their devotion to the Federation and willingness to work wherever needed is an inspiration.

I know your new President, Lee Kirby, to be conscientious and capable. He is thoroughly sold on the Federation and deserves the full support of everyone.

From Your New President
Lee Kirby

As custom prevails, a theme for the coming year is in order. I took the liberty to expose those present at the Convention Banquet at Ishpeming to the theme for 1973, that of Progress through Planning and Participation. I feel that now is the most opportune time to detail, develop, and implement this theme with the help of the Executive Committee. As it is through this committee, that the future of this Federation must be projected.

Development within any organization is primarily dependent upon it's activities both present and projected. It is within this restrictive confinement that the Midwest Federation must operate and maintain progress. Therefore, as you will note when the projected budget for 1973 is presented, our financial condition precludes any broad service expansion within the immediate future. It is on this premise that we must establish a program now that will allow for the necessary increases in services and future development dictated by growth and demand from within this Federation.

The concept of "Solid as a Rock" is generally accepted as basis for the establishment of an organization, however, this concept is in theory only and the prerequisite for future development and success is flexibility. We must develop our activities within the boundaries established in the By-Laws of this Federation. In certain instances, these boundaries do not offer reasonable flexibility for future expansion and for the development of services not specifically outlined therein. It is in this area that

HELP ELIMINATE LITTER

I feel we must direct our first action. It must be emphasized here that any attempt to alter the By-Laws in this area must not diminish the rights and privileges of the member clubs in any way, but must be directed toward the ability of this Federation to serve them.

There are fifty Permanent and Special committees within the framework of this Federation. Some of these committees have served their initial purpose and are now superfluous. Some of these committees are inactive due to lack of incentive and lack of direction. In both instances, re-alignment or elimination of such committees would provide an element of streamlining in the Federation and allow for the more efficient utilization of resources for more progressive application. Within the remaining committees, there is a definite need for the establishment of a project development policy in order to guarantee a positive future growth element within this Federation. Such a policy will necessitate the establishment of projected completion dates in order that proper budgetary allotments can be made, and at the same time, this policy will provide the member clubs with the assurance that this Federation is planning for the future.

This is an ambitious program and as it's scope is broad and sweeping, this may appear to be a monumental task. In it's entirety, this is true, but if we view this in it's proper perspective, and each of us as Federation members and each of the member clubs contribute their initiative, this goal can be achieved.

I do not believe that any one person can or should determine the operational policies of an organization of such scope as this Federation possesses. It is in that concept that I have been, am at the present, and shall be in the future open to any and all suggestions from any member club or member of the Executive Committee. Upon receipt of such suggestions, I will refer them to the pertinent committee of committees for their study and ask them to return their recommendations on these suggestions to me for future action. It is through this process that Progress through Planning and Participation can become a reality.

A PLEASURE

As president, it has been a pleasure to work with you and your conscientious efforts on behalf of the Federation are greatly appreciated.

I expect to still have activities with MWF and will hope to see you at meetings. I also have good intentions to send items for the Newsletter from time to time.

B. F. Parr

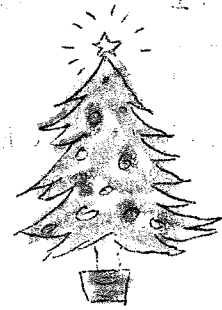
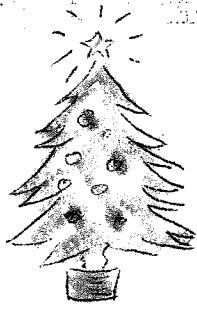
TIME TO LIVE

By the late Gladys Shaffer Young, wife of our former president Merton Young. This is one of a group to be published in a forthcoming book of her poems.

Let's take the time for a good-bye kiss,
Let's take the time to live,
To speak sweet words to those we love
And with whom we work and live.
Let's take the time to be pleasant.
Small courtesies in the eyes of time
Gain values lost in the rush to give
Subservience to wealth and fame.
We all must take the time to die,
Why not take the time to live?

ATTENTION EDITORS!!

I am the new Chairman of the AFMS Club Publications Committee. I need your help. First, please put me on your mailing list for your bulletin. Second, send us your ideas about the Bulletin Aids Manual we will be working on this year. Third, what kind of insignia do you think would be appropriate for the National Contest-winning bulletins? And last, please let this committee know what we can do to help you. Also my personal thanks for your previous cooperation, and my congratulations for the great service you are performing. Mail to June Culp Zeitner, AFMS Club Publications Chairman, Mission, S.D. 57555.



BLESSED BE YOUR CHRISTMAS

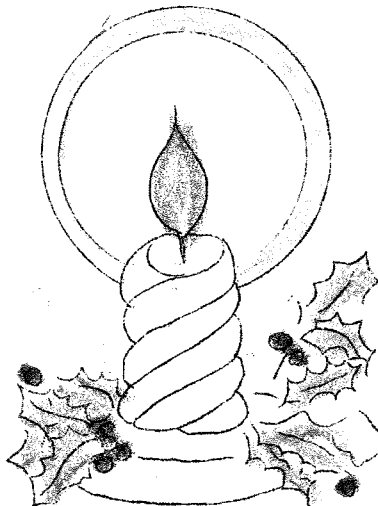
Blessed be your Christmas
Blessed be your day;
Bright be your heart and home,
Happy be your way.

Blessed be your Christmas,
Rich be your share
Of gifts of the Father's love --
This is our prayer.

Christ be your welcome guest,
Christ be your friend;
Blessed be your Christmas --
Beginning to end!

(selected)

See you Dec. 9th - W.O.W. Meeting Hall 7:00 PM



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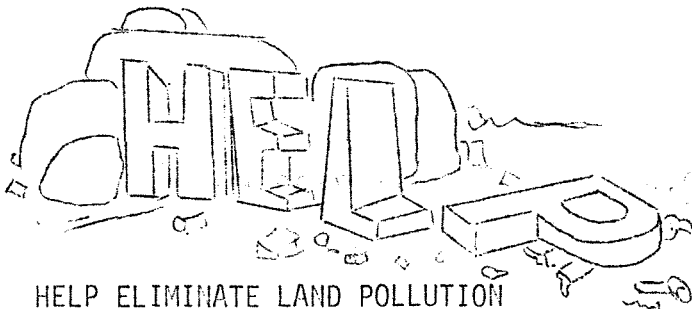


Member: Community Arts Council

L.G. & MIN. Club Historian
Frances Tracy
3601 South St.
Lincoln, NE 68506

"THE PLACE TO GO IN '74"
Nat'l Gem & Mineral Show
June 13-16 Lincoln, Nebr.

LINCOLN GEM & MINERAL CLUB ANNUAL SHOW, May 12-14, 1972, Fairgrounds, Lincoln, Nebr.
NEBRASKA STATE SHOW - April 13-16, 1972, Hastings, Nebraska
MWF FIELD TRIP CONVENTION - July 20-24, 1972, Ishpeming, Michigan
THE KEY TO PROGRESS-'COOPERATION' - Barney Parr, MWF President 1972



HELP ELIMINATE LAND POLLUTION

LINCOLN GEM & MINERAL CLUB - HOST

combined

MWF - AFMS NATIONAL SHOW & CONVENTION
and

NEBRASKA STATE SHOW

JUNE 13-16, 1974, LINCOLN, NEBRASKA