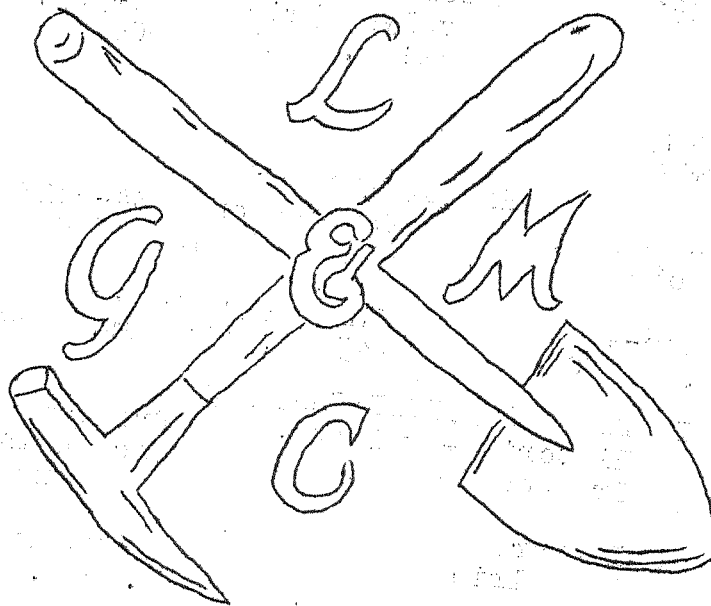


THE PICK & SHOVEL



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

P. O. Box 5342
Lincoln, Nebraska 68505

APR 1971

Members of

Midwest Federation of Mineralogical and Geological Societies

American Federation of Mineralogical Societies

Nebraska State Association of Earth Science Clubs, Inc.

Community Arts Council of Lincoln

Editor: Norma Miller, 931 Cottonwood Dr., Lincoln, NE 68510
News Reporter: Glenna McGinnis, 3444 Somerset Ave., Lincoln 68504
Publisher: Phyllis Parks, 2435 So. 19th St., Lincoln, NE 68502

Regular Meetings - 4th Sat. of the month 7:30 PM, Sept. thru May
W.O.W. Bldg., 732 S. 27th St., Lincoln, Nebraska

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.

+ + + + +
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1971 Rock Swap
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NAOESCI Reporter
Norma Miller

VaYa Con Dios Chmn.
Marie Carveth

Education
Evelyn Ulrich

1974 STEERING COMMITTEE

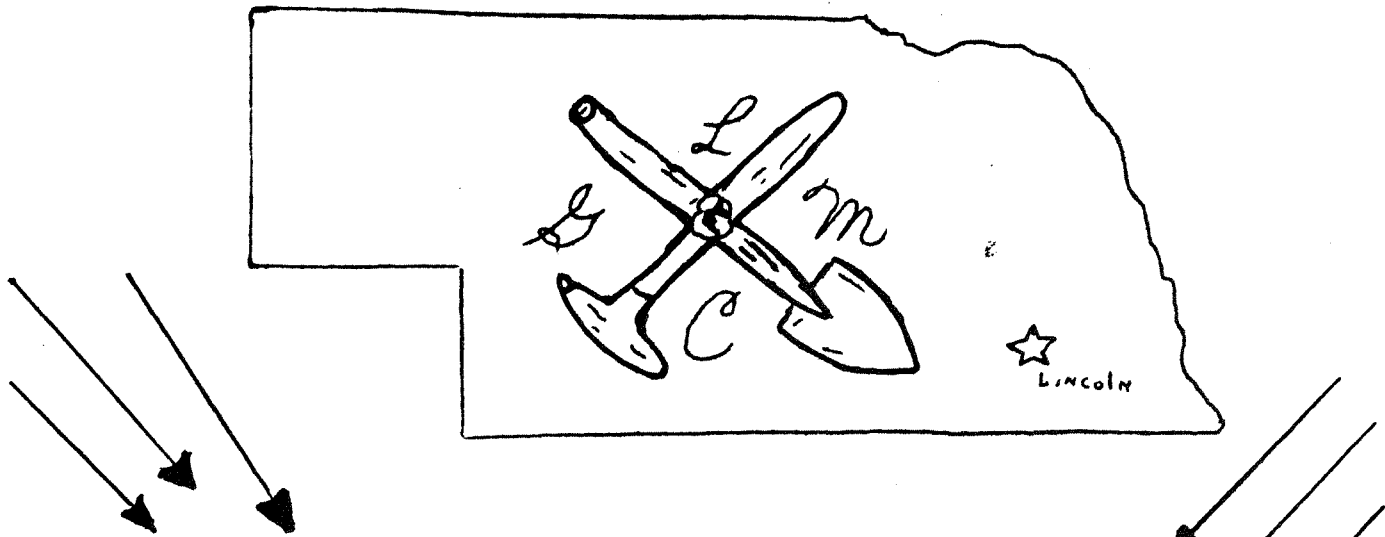
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Articles published in the PICK & SHOVEL may be reprinted if credit is given and a copy of the publication sent to the editor.



**THE
LINCOLN
GEM & MINERAL CLUB**

PRESENTS
ITS
13 TH ANNUAL

Rock & Gem Show

FEATURING —→ PROGRAMS
GEM S → MINERALS → FLUORESCENTS
GLASSBLOWING → ROCK PILE → DEALERS

MAY 8-9-1971

STATE FAIR GROUNDS EXPOSITION HALL

FREE PARKING —→

FOOD IN BLDG.



Blue Agate
State Gem.

Prairie
Agate
State D.



ADULTS 1.00 → CHILDREN .50

ESCORTED CHILDREN FREE .

SAT. 10 A.M. TO 10 P.M. → SUN. 10 A.M. TO 6 P.M.

CAMPING FACILITIES AVAILABLE .

C A L E N D A R

REGULAR MEETING...7:30 PM, Sat. April 24
 WOW Bldg., 734 S. 27th St.

PROGRAM...two films...16 minute color film for children "Minerals & Rocks". Another film titled "Rocks that form the Earth's Surface" geared to the adults.

Mac McKinney, Program Chairman

REFRESHMENTS...Charles Anderson, Deliliah Rankin
 Glenna McGinnis and Millie B.
 Chairmen-Eleanor & Larry Rupert Family

SHELDON ART GALLERY display of hand crafted jewelry by
 Dr. Eleanor Caldwell, Professor of Art at Northern
 Illinois University at Dekalb. Through the 24th

FIELD TRIP...April 25. Meet at Van Dorn Park at
 9:00 AM Sunday for trip to Holmesville for xls and
 to Odell for 'diamonds'. Marie Wells, trip chairman.

EARTH DAY...Thurs. April 22. Citizens who want to
 contribute to cleaning up Lincoln's environment...
 Sites open April 22 thru 28 where you may deposit for
 recycling aluminum, newspapers, brown paper bags and heavy
 corrugated cardboard boxes:

- Leon's Food Mart - Rathbone Village - paper and aluminum
- Treasure City Safeway Store, 48th & Leighton - aluminum
- Jack & Jill Store, Belmont Shopping Center, aluminum
- Hinky Dinky, 25th & O St. - paper and aluminum
- Nebr. Wesleyan Univ. practice football field - paper & aluminum

DR. NEIHARDT APPEARANCE...on the Dick Cavett Show - 10:30 PM, Tues.
 April 27, KETV Channel 7

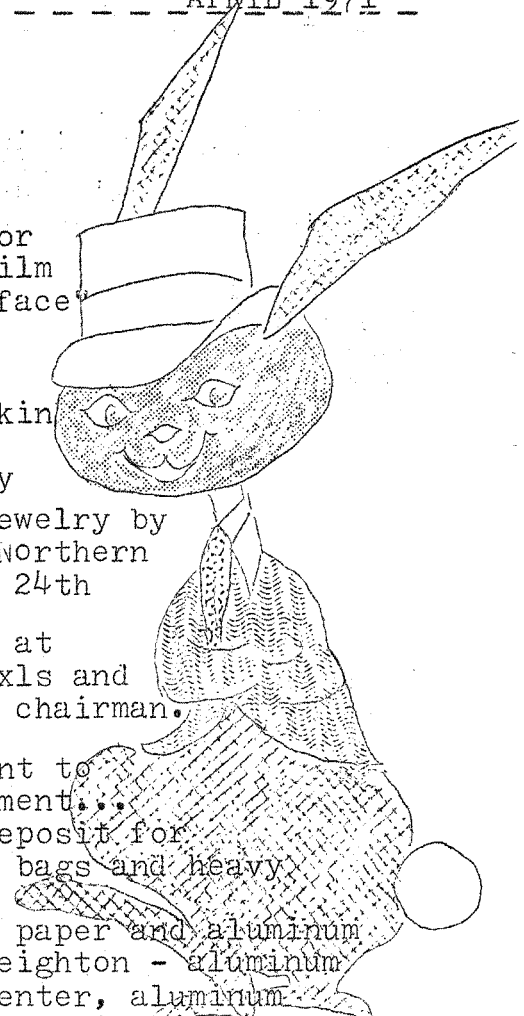
Dr. Neihardt Recognition...State Capitol Bldg., 11:00 AM Wed. Apr 21

ROGER PABIAN speaks to 5th graders from Riley School at the Chet Ager
 Nature Center on Wed. April 25, at Pioneer Park

NAOESCI Bulletin available to individuals \$1.00 per year. Send sub-
 scription to Editor, Charles Schafer, 3229 N. 60th St., Omaha, NE

COMING EVENTS:

- Apr 24-25 Little Gems Rock & Min Soc Show, Gardner, Kansas
- Apr 30-May 2 Central Nebr Rock & Min Soc Show, Hastings, NE
- May 1-2 All Iowa Rock Roundup, Fair Grounds, Nevada, Iowa
- May May 8-9 LINCOLN GEM & MINERAL CLUB SHOW, EXPOSITION BLDG.
 STATE FAIR GROUNDS, LINCOLN, NEBRASKA
- May 15-16 Picture City Gem & Mineral Soc Show, Hot Springs, SD
- May 15-16 Coteau Des Plaines Gem & Min Soc Show, Watertown, SD
- May 22-23 Central Nebraska Rock & Min Soc Swap, Ayr, Nebraska
- June 5-6 Siouxland Gem & Min Soc Show, Sioux City, Iowa
- June 19-20 SWAF - Homestead Gem & Min Club, Beatrice, Nebraska
- June 25-27 S. Dakota State Gem & Min Show, Rapid City, SD
- July 17-18 SWAP hosted by 100th Meridian Rock Club, Gothenburg, NE
- July 22-25 IWF Show & Convention, Mansfield, Ohio
- July 27-Aug 1 Iron Ridge Trail Along, Hibbing, Minnesota
- August 7-8 SWAP-LINCOLN GEM & MINERAL CLUB, CAMP MINISKUYA, 1st
 & Van Dorn Sts., LINCOLN, NEBRASKA



Last Month...your Editor finally made the scene. It was my first meeting for 1971! Having previous commitments on the past two meeting nights I'm sure I have missed some great "goings on" if last month's meeting was an indication.

Your president and her aides are really in control and "things are happening". Helena does a great job presiding at the membership and guest book table; Phyllis, Marie, Ralph, and Evelyn get things going on time and push right along. Mac is on the ready with his helper, David Rupert, with a fine program each time; Eleanor and crew are most efficient and imaginative with food and table decorations, and Evelyn is doing a great job "on stage" with the study group, with George and Ed. Hang in there and keep up the good work!

Field trips are at hand. The first one is set for Sunday, April 25, meeting at 9:00 AM at Van Dorn Park Shelter House, 9th & Van Dorn Sts. Destination Holmesville and Odell in that order. Marie Wells is trip Chairman this date. Tom Simmons wants your preferences on field trips! Contact him and he will schedule it.

Howard Taylor stated several slogans and themes have been presented to him for the 1974 Show but requests many more. Get on your thinking caps and come up with a really great idea for theme, color (blue and gold are our club colors) and slogan for the big bash. Here are starters to get you thinking..."See more in '74". Or LGMC-MWF Show and Convention "The Best in the West". You can do it...jot them down right now as you read this and turn them in to Howard.

Show Chairman for 1971, Marie Wells, reported various committees were quietly performing their duties, some not so quietly. Display reservation sheets were passed out and members filled them out and returned them that night. If you wish to display this year get your reservation form from Marie or Lynn and be assured of space to show to your best advantage. This will be a great help to the floor chairman, Jim Parks. Marie Carveth, publicity chairman for '71 Show at the Exposition Bldg. at the State Fair Grounds here, is really on the ball getting the word around. See her report elsewhere in this bulletin.

Norma Miller reported that membership in the Community Arts Council was undergoing a change and that dues may be requested soon. The Executive Board has approved a given amount if this aspect develops. She also reported that the new building especially designed for NETV is under question as far as occupation of said building is concerned. It seems it may be turned into a state office building instead. To date NETV has been doing a tremendous job of production under great inconvenience being housed in several different localities. If you think NETV is worth its shekels - write your legislature and the Governor and let your feelings be known. There's really some great programs on Channel 12.

Lloyd Lederer furnished an informative color film with sound about the new Florida Disneyland. Ralph Ulrich demonstrated how to display a competitive exhibit, and a non-competitive display, and Marie Taylor supplied us with a cute "open display" depicting "Easter Morn". Everyone should have ideas now for showing on May 8 and 9. See you next month!

The 1971 Lincoln Gem & Mineral Show will be another show that we can be very proud to host. The entire program is in the final form with only a few spots on the program to be filled.

You will not want to miss seeing what is perhaps one of the finest wood and Lake Superior collections in this region shown by Melvin and Bernita Lentz, Mulvane, Kansas, and Wm. Baltz, Topeka, Kansas, respectively.

We are also happy to announce the Kenfield Brothers will be with us and there will be a gold casting and glass blowing demonstration.

From the University of Nebraska we will have displays from the State Museum, and the Soil and Conservation Division. The State Game and Parks Commission will also have a display.

The program is still incomplete however three fine films are reserved and this year those especially interested in fossils will be pleased to know King Richey will have a slide presentation and lecture on "Amateur Fossil Collecting In Nebraska" and Roger Pabian will conduct a symposium Sunday morning on Fossil Nomenclature. It isn't often that a club can present two qualified men on the same program who are experts in their field. Roger Pabian is Education Director for the Midwest Federation. King Richey is Assistant Curator for Vertebrate Paleontology for the State Museum. Confirmation is awaited on three other speakers.

Glen Ulrich would like one more portable cutting, grinding and polishing unit for the working demonstration.

The Exposition Hall will be open 4:00 PM on Friday, May 7. All exhibitors will check their cases and content in and out to Jim Parks, floor manager. We are doing this for the exhibitors protection.

Be sure to make reservations for the Awards Breakfast with Marie Wells, phone 435-6758. In addition to the presentation of awards at this time Mr. A. R. Shalberg, a certified gemologist, will be the featured speaker and Denise Weeks, outstanding soloist from Lincoln High, will perform. Hopefully J. Wollin, President of Midwest Federation will be our guest.

A fine group of eight dealers will be on hand, a good program, interesting features and displays, door prizes, food, free parking should make this show a must for everyone. The success will depend now on the whole club membership working together to sell the show and I have confidence in our people.

-Marie Wells, Show Chairman

Final
Signals
from
your
Chief



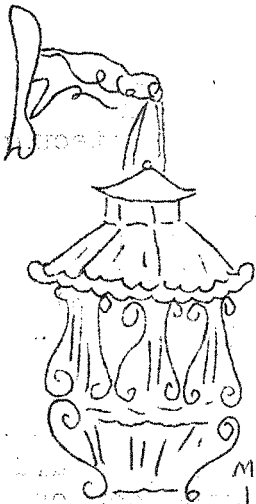
TEKTITES are glass objects of peculiar shapes. For years it was thought that tektites came from the Moon and outer space. Now that man has been to the Moon and did not find tektites, and the silica content of moon glass is less than that in tektites, elsewhere in space is considered their origin.

Tektites are pure silica glass and contain no water. They have no crystallization; flow like glass when heat is applied; have been formed under high pressure at high temperature and cooled rapidly. A few tektites have been found to contain tiny spheres of nickel-iron, and rarely one is found to contain coesite, a high temperature quartz. These minerals would indicate tektites are produced by impact of a meteorite on some surface.

Men have tried to connect tektites with craters and volcanoes on Earth, but tektite glass is not the same as obsidian, which contains water. Also, distribution of tektites found is best explained by saying they come from space. Tektites have been found in Australia, southern China and Asia, Czechslovakia, Russia, on the floor of the Pacific Ocean, and recently in Texas - all in places not associated with craters or volcanic activity.

MOON ROCKS brought back by Apollo crews are similar to igneous rocks found on Earth. Fine and coarse grained basalt and breccias proved to be the same as terrestrial, but percentages of minerals were different. Moon rocks are high in titanium and low in sodium and potassium, high in elements that have high melting points and low in elements with low melting points. While Moon rocks contain no water or oxygen, they are abundant in other gases: helium, argon, krypton and neon.

via The Pacific Mineralogist



NEW FEATURE

Vaja Con Dios -- meaning "May God Be With You" in the beautiful Spanish language.

We shall send messages of cheer, consolation, congratulatory - whatever the occasion. We must however, know of the event - so keep us informed.

In my new appointment I shall strive to remember all - but I must know who, and when.

The Spanish lantern shall serve as my symbol - So - Vaja Con Dios: The names will be on this page.

- Marie J. Carveth

PROGRESS REPORT FROM THE PUBLICITY CHAIRMAN

Do this "10" days before the show: Distribute the Flyers!

This list will alert you as to who has flyers. They were issued at the March 27 meeting. Please get flyers from any of these people who live in your area if you need more flyers. Distribute wherever you feel they will do the most good.

"Each flyer must sell our Show". We have chosen a color recommended by the printer to be the most eye-catching. Use scotch tape (or masking tape) to attach to window of the store, shop, etc. Place in a strategic spot.

Good Luck to all of you!

-Mrs. Carveth, Publicity Chairman

Barbara Allen)	Rathbone Village area
Earl Amen)	
Bob Bainbridge	Industrial Park Area
V. A. Carveth	Indian Village Area
Helena Baegl	27th & Vine & 27th & Holdredge Area
Don Gless)	
Rod Woodcock)	Fremont, Nebraska and area
Darline Sprick)	
Bill Hendrickson	Miller & Paine
Richard Hornung	Cheney, Nebraska and area
Marjie Heedick	State Roads Dept. and area
Irl Everett)	Work areas
John Lewis)	
Dean Baumeister	33rd & O St. and area
Jerry Kohn)	
Roger Pabian)	70th & O St. and general area,
Lloyd Lederer)	V. A. Hospital, and University Place
Norma Miller)	area
Geo. McGinnis)	
Frank Rule)	Havelock and area
Stan Greenwade)	
Walter Moser	Hickman, Nebraska
James Marburger)	
Norman Balliet)	Campus areas
Adeline Nolde)	
James Parks	His business shop and area
Ewald Paul	His work area
Chet Bagg	Waverly
Don Lawson	His work area and University Place area
L. Rupert and family	His work area, etc.
Frank Krejci	His work area, office area etc.
Tom & Roger Simmons	Their shops and various places
Bruce Simon	Work area
Ralph Ulrich)	
Evelyn Ulrich)	Gateway Shopping Center and general
Glen Ulrich)	area
L. Van Cleave)	
Mac McKinney)	West O St.
Howard Taylor	area
	Belmont area

(Continued next page)

PROGRESS REPORT from the PUBLICITY CHAIRMAN (continued)

Mr. Waddle	0 Street. His office area
Lynn Wells	Gateway area
Wildred Wittman)	
Mr. Geyer	College View area

Three hundred flyers were taken to the Kansas City show. Many more are being taken to the MWF spring meeting on April 3, Elmhurst, Illinois, by Mr. Ralph Ulrich and company. We shall be mailing at least 600 to our friends who came to last year's show. We shall mail or deliver to all shows (namely 6) before our show - here in the midwest area.

Remember the old cliché from the selling field -

"You can't sell an empty counter"

or

"The wheel that squeaks the most, gets the most grease!"

DISPLAYS DOWNTOWN:

- * We have the front window of the National Bank of Commerce on O St. to use from April 30 to May 7. (Friday to Friday). Bruce Simon has consented to take charge of this display.
- * Mr. Bill Hendrickson of Miller & Paine, and James Marburger of Abel Hall will put in a display in Miller's Book Store. Watch for this window on 13th St.
- * Mr. Paul Henn, Hardware manager of Sears Roebuck, has been kind to offer a working tumbler in his department the week of our show. Virg Carveth will furnish the rocks for this display. We shall have flyers here for the customers in the department.
- * Tom Simmons will take care of the outdoor signs. All highways leading into Lincoln, and various other spots, etc. We shall have signs on the Armory grounds, through the courtesy of Jim Husic (of the Armory staff) telling of the Gem Show at the Fair Grounds.

Watch for an article in the Focus Magazine section of the Lincoln Sunday paper. We will have ads in the

- * STAR
- * JOURNAL
- * SUN
- * WORLD HERALD
- * THE NEBRASKAN

We will have radio spots on

- * KFOR
- * KLMS
- * KLIN
- * WOW-Omaha
- * KFAB-Omaha

We will list in the * What-to-do-

* Daily Calendar of the local papers.

I ask those that can to announce this in your church bulletin if you have one and can do this. (How can we miss on this?) or in any

(continued next page)

PROGRESS REPORT FROM THE PUBLICITY CHAIRMAN (continued)

other bulletins you might have access to.

A flyer is being mailed to the VFW clubs, American Legion and the D. W. V.

Radio and television listings are as follows:

May 4: Rita Shaw Program, 9:30 AM - KOLN TV, Channel 10
with Mrs. Phyllis Parks, President of LGMC and
Lt. Governor Frank Marsh, Member of LGMC

May 4: Leta Powell Drake, 1:30 PM - KLIN Radio
with Mrs. Marie Wells, Show Chairman

May 6: Morning Show, 7:00 AM - KOLN TV with
Ralph Ulrich, member of LGMC - Faceting

Thanks and Good Luck! (If some names were omitted from the list of flyer distributors it was done inadvertantly. Just keep up the good work!)

Marie J. Carveth, Publicity Chmn.

A REMINDER FROM THE COMPETITIVE DISPLAY CHAIRMAN...
Those interested in competitive display may pick up
entries at the April meeting. We hope to have quite
a few take part in this area.

One may approach this competition with the thought that
the competitor is working to improve his own work. This
is one way to learn of our weaknesses and errors in order
to improve.

- Kathryn Ulrich

A PLEA FOR HELP...from the Fluorescent Display Chairman...
I am preparing the clubs black light display for the '71
Show and need two volunteers. Someone is needed who has
some experience as a carpenter or anything along that
line to help with the construction of the booth.

I also need a seamstress to sew the drapes together for
the front of the booth.

Please contact me at 488-4915 in the evenings.

Thank you -Ed Woten

YOUR SPECIAL PROJECTS COMMITTEE, Chet and Hazel Bagg and Ewald and
Luella Paul, have had a meeting regarding the proposed display for
the Chet Ager Nature Center and would like to have as many small
specimens as soon as possible of fossils, minerals, gem stones
(polished or rough) from any location in Nebraska. This project
is to be completed by May 1 so get your 'extras' to this committee
and help your club extend a public service.

LGMC SWAP DATE SET...Aug. 7 & 8, 1971, Camp Miniskuya, 1st & Van Dorn
Lincoln, Nebr. Charles Kitchen SWAP Chairman

What Goes on at Midwest Federation Executive Committee Meetings...

Three members of the Lincoln Gem & Mineral Club, Roger Pabian, Kathryn Ulrich and myself were on hand at Elmhurst College, Illinois on April 3, 1971.

Our President of Midwest Federation, Mr. J. Wollin, with his own special brand of humor, guided us through the various reports and discussions. After lunch he divided the delegates into discussion groups according to individual interests which I believe was very productive.

The treasurer's report includes a list of member clubs in each state and the total number of individuals included. Michigan has the most clubs and the largest number of members included with 37 clubs and 3746 members reported. 201 clubs of the 226 listed have paid up for 1971 for a total membership of 15,922 persons included. Nebraska has 4 clubs paid up and 292 members reported.

Reports from the state directors and committee chairmen continued throughout the morning.

Mr. Shaul, the director from Nebraska was unable to attend, however Roger and I offered a few remarks about Nebraska.

Illinois: The state director, Elsie Popejoy, has asked that all Illinois clubs send a copy of their bulletin to the State Director. She in turn is sending out newsletters to the clubs, thus the clubs are aware of the Federation and its work.

Indiana: Now has a state stone - limestone was designated by the Governor.

Iowa: Their All-Iowa Roundup, the first week-end in May, is also the spring meeting for the clubs of Iowa. This year it will be held at Nevada, Iowa on May 1st and 2nd.

Paleontology Committee: They are working toward a directory of public and private fossil collections to be used by both amateurs and professionals. Many of the good collections are unknown, or at least very limited in scope, and it is hoped that the directory would help to make these valuable collections available for viewing and study.

Bulletin Editor: Oliver Roskam has been planning a bulletin editor's manual which should be available in the near future. A Bulletin Editors Seminar during the MWF Convention at Mansfield, Ohio, is also on the program.

Programs: Mrs. Hirsch tells us that some of the programs are becoming worn and will soon be useless. Therefore she asked the Executive Committee to allow some funds in the budget to pay the cost of reproducing programs. Any new program could then be reproduced as soon as it was received and the original could be preserved.

Earth Science Magazine: Some financial difficulty is beginning to show up here. The MWF cannot supplement this magazine because it is

(continued)

MWF Executive Meeting (continued)

set up as a possible profit function. The suggestion was made that the clubs could help to increase the subscriptions by buying one (or several) and donating them to schools and libraries. A word of caution - be sure to contact the librarian or the school principal and let them know that your club is donating the magazine, otherwise it may be discarded as advertising material.

Education: Roger Fabian reports that he is new to this particular post but is learning what the needs are and would appreciate any suggestions.

1971 Convention and Show: Mansfield, Ohio. A request for a display from each of the states in the MWF went out to each State Director but some of them have not responded - for example, Nebraska and others. Registration forms and exhibit entry blanks have been mailed out to all clubs. Please urge the club members to send in their registrations and entry blanks.

1972 Field Trip Convention: Ishpeming Michigan. Their steering committee has the tentative schedule and program all set up. The question of the banquet was discussed at length. The show of hands indicated that Saturday evening was the most popular time with the delegates. Also the Silent Auction should be scheduled on Friday rather than Monday because many people will leave Sunday and miss this important activity.

1974 National Show and Convention: A letter from the president of the Lincoln Gem & Mineral Club (authorized by membership vote) was read before the executive committee by this writer. This letter was a reconfirmation of the invitation of LGMC to have the 1974 Convention and Show at Lincoln, Nebraska. Motion was passed that the Executive Committee recommend to the delegates at the convention in Ohio that they accept the invitation from Lincoln, Nebraska.

As chairman of the steering committee for the 1974 Project, I presented a brief resume of our plans as they have progressed so far. I mentioned the two possible sites, University of Nebraska and State Fair Grounds, and the two dates (1st week in July if at the U of N, and 1st week in June if at State Fair Grounds.) I was immediately informed that there was a gentlemen's agreement between MWF and California Federation that our convention would always be after July 1st. However with the consent of the California Federation we may still be able to use the June date.

After lunch the group was divided into interest groups as follows: Mansfield Convention, Rules and Judging, Programs and Education, Publications and Anti-litter and Garbage. I joined the group on Rules and Judging. Most agreed that the rules were not complicated but were rather difficult to follow because of the way the book is arranged. We decided to recommend to the American Federation that the book be divided into three books, each complete in itself. There would be one on fossils, one on minerals and one on lapidary. Should the American Federation not consent to do this then the MWF should consider a supplement of its own. A few letters with comment and
(continued)

MWF Executive Committee Meeting (continued)

advice had been received by the Rules chairman, Betty Crawford. The most common irritant noted was the way in which a Judge worded his remarks to the exhibitor. Perhaps a Judges Seminar treating the subject of diplomacy would be a solution.

We were privileged to have our evening meal in the assembly room of the Lizzadro Museum followed by a slide program on fossils found in Pit No. 11 near Chicago. I for one was busymost of the evening viewing and admiring the fabulous carvings and specimens. This is the finest museum collection of lapidary articles I have ever seen and I recommend it to any sighseer.

-Your Steering Committee Chairman, Ralph Ulrich

Glenna's Gleanings

Our neighbors to the south, the Beatrice club, are holding their 2nd annual SWAP on June 19th & 20th. No word as to place...Bob Maxon is Chairman. (Riverside Park is the place)
(Ed.)



Those who have the Lapidary Journal, April issue, please notice the article about the fabulous Lake Superiors of Kansas. The gentleman, William Boltz, who owns the agates pictured in that article, will be showing them at our own show next month.

Dr. Neihardt will appear on the Dick Cavett Show at 10:30 PM, April 27th on Channel 7, Omaha. The Statehouse observation of the Golden Anniversary of his Poet Laureateship will take place on April 21st at 11:00 AM and the public is invited. He will also be honored by Aksarben this coming September. Our most hearty congratulations.

The Lloyd Lederers are leaving for a trip to Texas this next weekend. Good hunting!

Received word from a friend in Kansas City that they had 11,400 paid admissions to their March Show. Hope we do as well with our 1971 Show.

The Carveths entertained ten in honor of Marie's nephews who were on the Honor Roll at N. U. the past four years.

Frank Rule reports Tom has been transferred to Port Hueneme, California as of April 7th. Address in the next issue of P & S.

Judy Weber was kind enough to give me Terry's address for those who may wish to write to him:
Spec 5 Terry L. Weber, 506-68-7545
Co. A, 442nd Sig. Bn., Korat, Thailand
APO San Francisco, Calif 96233

The McGinnis family received an Easter surprise from Viet Nam - word that their son-in-law will be posted to Offutt AF Base near Omaha in July!

Your News Reporter, Glenna McGinnis

ECOLOGY-MINDED? Here are some of the things which the average citizen can do to help eliminate pollution:

Don't use your car unnecessarily. Instead walk, ride a bike or organize a car pool. If you use your car don't idle your motor when it is possible to turn off the engine. Buy lead-free gasoline when available. The lead in gas fumes is one of the major causes of pollution and can be absorbed by your body.

Use returnable bottles, not throw-aways or cans. Don't purchase liquids sold in plastic milk-white containers. This material is polyvinyl chloride which, when burned, produces an acid mist which can destroy nearby vegetation as well as the incinerator.

Don't buy colored facial tissues, paper towels or toilet paper. Although the paper disintegrates, the dye does not dissolve in water. Save aluminum cans and frozen food trays to return to reclaiming plants. Return wire hangers to your cleaners when you have no further use for them.

Do not use DDT. Use less dangerous pesticides.

Don't burn leaves or trash. Instead start your own compost pile to return the nutrients in leaves and other wastes to the soil.

Measure detergents carefully using only the amount recommended; and use the ones with low phosphate content.

Re-use paper bags, boxes, plastic bags, and other containers.

Save your tea and coffee grounds for gardens and cooking fat for birds not your kitchen sink.

(The above from Skaget Gems via Magic Valley Gem News-and now this from GEMS...there is still hope...

NUCLEAR ENERGY CLEANING SEWAGE

The awesome force of nuclear power has been used to kill, to destroy, and to pollute. Now it is also being used to save lives and clean up dirty water.

Dr. David D. Woodbridge, who heads the physics department at the Florida Institute of Technology at Melbourne near Cape Kennedy, has developed a nuclear sewage disposal plant - the first such commercial facility to be built in the United States and perhaps the only one in the world.

The \$37,000 plant bombards an average of 10,000 gallons of polluted water each day with gamma rays from the heavily radioactive Cobalt 60. The plant processes sewage from camp trailers, bathhouses, toilets, and laundry machines located at the Fisheating Creek, campsites west of Lake Okeechobee in Southern Florida.

(continued next page)

NUCLEAR ENERGY CLEANING (continued)

Irradiation with the cobalt isotope does more than rid the sewage water of disease-causing viruses and bacteria. It also breaks up deadly pesticides and reduces by as much as one-third the quantity of phosphates and other nutrients in the water. Treatment is similar to the standard sewage disposal process, with the irradiation as an extra step just before filtering.

Although processed water from the camp-site sewage is clean enough for drinking it is not generally used for that purpose.

The Florida scientist suggested that municipalities throughout the nation could use nuclear irradiation to decontaminate raw sewage. Allowing for evaporation, he said, a community could save 30 percent of its water by recycling it any number of times through the nuclear irradiator. (via Grit)

 RELATIVE THOUGHT: Pollution costs us millions...
 Put it another way - grime doesn't pay

EROSION: Our nation's most spectacular volcanic rock, Devil's Tower, rises like a giant tree stump 1,280 feet above the Belle Fourche River in Wyoming. Estimated to be 50 million years old its once molten rock, forced upward from the earth, took its present form through centuries of erosion. And then there's the Grand Canyon: Another story.

THE GOLD WITHIN

How fast the tongue of man condemns
 The different, the unknown
 A thought - a face - has little worth
 Unless it's like his own.

If folks we meet are not our kind
 We tend to criticize,
 But often times strange packaging
 Conceals the richest prize.

In unsuspected depths we may
 Find affluence untold
 The prospector can grub for years
 Before he finds the gold.

So seek the good in everyone
 Exteriors apart.
 The truest measure of a man
 Is what is in his heart.

Via The Limestone Rattler- by Mrs. Marian E. Anderson, Anoka, Minn.



A BRIEF SUMMARY OF GEOLOGY - by Harold Moore

To a rockhound GEOLOGY is what it's all about. Geology is described as the science which treats the history of the earth and it's life, especially as recorded in the rocks.

There are three principal branches of geology: Structural geology, dynamics geology, and historical geology.

Geological history is divided into five great eras: Archeozoic - Proterozoic - Paleozoic - Mesozoic - and Cenozoic.

Archean is the designation for the oldest known group of rocks. The duration of the era during which the Archean rocks were formed is very great, probably exceeding all other subsequent times. This could be figured in terms of billions of years and is usually estimated at around four billion.

The Archean beds contain chiefly metamorphosed igneous rocks, but subordinately metamorphosed sedimentary beds. They also contain iron ore, limestone, etc., which seem to indicate the existence of life, but no fossil evidence has ever been found. Rocks found in this era are granatoid, schists, the Laurentian beds, Keewatin, etc.

Proterzoic is the second oldest group. Around Lake Superior this is sub-classified Upper, Middle and Lower Huronian also Keweenawan; the lower to include Montana, Idaho, Grand Canyon and the Grand Canyon region.

Paleozoic is the middle one of the five eras, beginning around 600,000,000 years ago and lasting some 370,000,000 years. Rocks of the era are principally of sedimentary marine origin and contain the first abundant fossil record. These fossils indicate an abundance of marine invertebrate life throughout the era. Fishes appeared near the middle of the period, and toward the end terrestrial life became prominent. The latter half also gave rise to land plants and the first forests which later formed the earth's major coal deposits.

This era is subdivided into seven major periods called collectively the Carboniferous or Coal Age. They are Cambrian, Ordovician, Silurian, Devonian, Mississippian, Pennsylvanian and Permian.

During the era's closing stages, enormous mountain ranges were formed in various parts of the world including the Appalachian, Alps and high ranges of central Asia.

During this era the earth's most unusual glaciations took place in near-tropic latitudes of the southern hemisphere, notably in India, Africa, Tasmania, Australia and South America. Those of India were near sea level and within 18 degrees of the equator.

The arid lands of western America were formed at this time, including the great salt and gypsum deposits.

All this physical change proved to be too much for most of the life forms on the earth and many plants and animals became extinct.

(continued next page)

GEOLOGY (continued)

The Mesozoic era seems to be rather recent but we are still dealing with more than 165,000,000 years. The first sharks and jawfish were somewhat earlier, but flying reptiles such as the Pterodactyl came into being at this time. Small and great reptiles roamed the great rain forests. The first conifer trees appeared. Also the tree fern. Such creatures as the dragonfly and scorpion as well as the cockroach became plentiful.

The Mesozoic era is divided into three main periods. The first or Triassic age saw the first modern coral. Cycads, the ancestor to the palm, appeared. During the Jurassic age was seen the mighty 80 foot long, 20 ton Brontosaurus called the "thunder-lizard". With the Cretaceous age came Ankylosaurus, a veritable walking armored tank - 20 feet long and 6 feet wide, a plant eater. Such duck-bills as the Trachodon and Corythosaurus as well. The Stegosaurus had two huge rows of spiny plates three feet high along his backbone. Only Triceratops, of all the plant eaters, seemed to be aggressive enough to attack the mighty Tyrennosaurus Rex, a flesh eater who ruled the world for many millions of years.

Archaeopteryx, the first known bird, flew over head. It had teeth and a long, bony tail. The Magnolia tree grew at this time. With the Cretaceous age came crocodiles, birds, clams, and snails as well as the hardwoods.

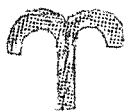
The most recent era is the Cenozoic. It began some 65,000,000 years ago with the disappearance of the great dinosaurs and the rise of mammals on the earth. This era is usually divided into the Tertiary and Quaternary periods. During the Tertiary came the horse, dog, camel, mastodon, the flightless birds, and the flowering plants. About 2,000,000 years ago the Quaternary period brought the mammoth, wooly rhinoceros, ground sloth, cave bear, and the saber-toothed tiger.

Finally came man with his incessant curiosity to attempt to reconstruct all that happened before him. We like to think the ground-work and stone-hunting of the confirmed rockhound will help to contribute a fair amount of information to this seemingly endless task.

via - Rockhound Tales

NATURE'S ZODIAC...March 21-April 19...Aries - The Ram. Your ruler Minerva, Goddess of wisdom, war and the liberal arts. Your planet is mars, called "The Red Planet" for its hue. Your color is red, your metal iron (which turns reddish when rusted) and your element is fire! You are energetic, implusive, enthusiastic, and steadfast. Your mineral is Realgar/Orpiment.

Your sign



FOOTNOTE: A woman may be small of frame
with tiny feet that patter
But when she puts one foot down
her shoe size doesn't matter.

via Limestone Rattler

via Jaspilite

NEW MINERALS REPORTED by Therese (Rocky) Murchison, Chairman,
Mineralogical Technical Committee, Rocky Mountain Federation

HEMIHEDRITE: A new mineral found at the Florence Lead-Silver mine in Final County, Arizona, and at the Rat Tail claim near Wickenburg, Arizona, was reported in the July-August 1970 issue of the American Mineralogist by Sidney A. Williams and John W. Anthony. An orange to nearly black mineral with saffron yellow streak, it is a complex chromate containing zinc, iron, lead, and silica. It occurs with phoenicochroite and wulfenite. The specimen was first collected by R. W. Thomssen.

Dick Bideaux, one-time Rocky Mountain Federation scholarship recipient, has had a mineral named after him, Bideauxite. This extremely rare lead-silver chloride has been found in two specimens from the Mammoth-St. Anthony mine at Tiger, Arizona, in the Harvard and Smithsonian collections. It is a colorless transparent mineral resembling cerargyrite, which is what it was at first labelled. Bideauxite is an oxide zone mineral found with boleite, leadhillite, matlockite, and anglesite in quartz. (Excerpt from the Mineralogical Magazine, June 1970, in a report written by Sidney A. Williams).

A new mineral, Wickenburgite, a hydrous silicate containing lead, aluminum and calcium was found in abundance in several prospects near Wickenburg, Arizona, on the Potter-Cramer property. Derived from lead ores, it occurs with phoenicochroite, mimetite, cerussite, and Willemite. It is a fluorescent mineral. 10-68

Beta-aluminite, a basic aluminum sulfate, was found at the Fumerole mine, Temple Mountain, Emery County, Utah, in the San Rafael Swell. It occurs with basaluminite and gypsum in sandstone. 6-68

Wardsmithite, a new borate mineral, has been discovered in the Furnace Creek Formation in the Death Valley region. It is an efflorescent mineral occurring as very fine-grained nodules.

Work on the mineral wherryite from the Mammoth mine at Tiger, Arizona appears to confirm that it is a species distinct from caledonite and leadhillite, according to a study done on the mineral by Dr. W. John McLean, assistant professor in the Department of Geosciences at the University of Arizona.

Bresinaite, a new chromium sulfide has been found in the Tucson Meteorite, first recognized as a meteorite in 1852, when seen in a blacksmith shop where it was being used as an anvil in the then Mexican town of Tucson.

The first meteoritic occurrence of cordierite has been observed in the Allende Meteorite which fell near Parral in Chihuahua, Mexico, February 8, 1969. This meteorite is a carbonaceous chondrite and is somewhat rare. It has been estimated that as much as a ton of this material may eventually be picked up. (Excerpted from the American Mineralogist).

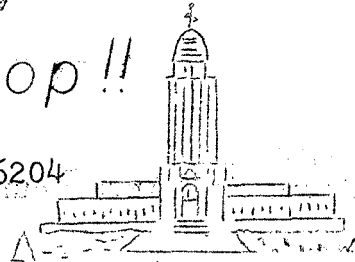
via Rocky Mountain News, February 1971 and
The Glacial Drifter

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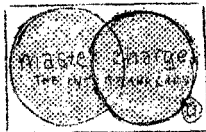
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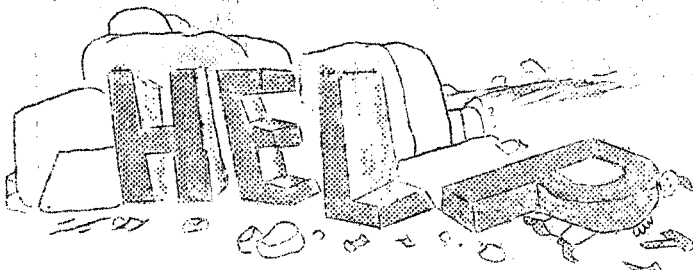
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