

Application for All American Federation Club Award

Lincoln Gem and Mineral Club

NAME AND ADDRESS OF CLUB P.O. Box 5342, Lincoln, Nebraska 68505

	Total Possible Points
1. SERVICE TO MEMBERS AND VISITORS AT MEETINGS: (Such as educational programs, library, door prizes, display reports of delegates or Director to members. General Organization, operation of meetings.)	20
2. SERVICE TO MEMBERS AWAY FROM MEETINGS: (such as field trips, club sponsored shows, seminars or workshops, telephone committee, club bulletin, any and all classes, groups discussions, special functions, picnics, etc., etc.)	20
3. CLUB PUBLICITY: (such as articles, pictures and reports in newspapers. Radio and TV programs and use of the Community notes. Also national magazines, such as rock and gem magazines.)	10
4. SERVICE TO OTHER CLUBS: (Display at and attend other club shows: joint shows; joint field trips; joint workshops and seminars; joint rock swaps.)	10
5. SERVICE TO FEDERATIONS: (Support Federation projects and contests; send reports, etc., as requested; attend and display at Federation shows; provide clerks and judges; support Federation scholarship programs; Federation Director or delegate attend meetings and report to club. Are you fortunate enough to have a member on Federation level?)	20
6. SERVICE TO OWN COMMUNITY AND NEAR-BY AREAS: (Such as rock oriented programs and displays in public places; teaching and putting on programs and displays at schools, retirement homes, VA hospitals, etc. Take part in community activities; donations or displays in museums, libraries, public buildings . . . good public image.)	10
7. SERVICES TO DISTANT COMMUNITIES OR PROJECTS: (Such as American Federation Scholarship, Museums, etc.)	5
8. SERVICES TO OR INVOLVEMENT IN PUBLIC AGENCIES: (Such as the State Department of Geology, historical societies, BLM, Forest Service, State and Federal representatives. Do your members help Public Libraries, Museums, Colleges, Universities?)	5
	Total 100

INSTRUCTIONS

ATTACH A COPY OF YOUR 1983 BULLETIN. YOU CHOOSE THE MONTH.

WRITE your answers, using as much detail as necessary. The judges don't know your club or what it is doing so tell it all. Judges can't read between the lines.

If you have newspaper articles or clippings, or pictures of a project, or important letters, certificates, awards, attach them to your written reports and staple all together or attach in an ordinary folder or file. All will be returned to you.

DO NOT SEND SCRAP BOOKS . . . repeat . . . DO NOT SEND SCRAP BOOKS. They are heavy, hard to handle and expensive to mail.

Mail your completed report directly to your Regional Chairman (name and address below). Do not send to AFMS Chairman. Mail as soon as completed.

Judging will be under the direction of your Regional Chairman. Awards will be announced at your Regional show. Trophy winners will be judged for the National trophy by a separate set of judges and the winner announced at the AFMS Awards Banquet in 1984.

DEADLINE: MARCH 1, 1984

(Postmark will control.)

Vern Korstad
AFMS All American Club Chairman

CLUB INFORMATION

Date Organized January 15, 1955 Membership 103 Average Attendance 45

Name of Bulletin Pick & Shovel

How often does club meet? Fourth Saturday, Sept. through May Fiscal year ends December 31

How many times have you participated in All American Awards Program? 10

How many times have you won a plaque? 1 (1974)

Name and address of person filling out this application: Florence M. Boring, 2836 S. 40 St., Lincoln, NE 68506

Please return to: Howard Taylor, Jr., President, 910 New Hampshire, Lincoln, NE 68508

REGIONAL CHAIRMEN

CALIFORNIA

Annelies Nash
P.O. Box 3066
Visalia, CA 93278

EASTERN

Esther Dunn
1102 Camilla Ave.
Ozark, AL 36360

MIDWEST

Dr. Benjamin Moulton
Dept. of Geography and Geology
Indiana State University
Terre Haute, IN 47809

NORTHWEST

Ed Romack
655 - 8th St.
Idaho Falls, ID 83401

ROCKY MOUNTAIN

Richard L. Goodnough
912 Otero
Dodge City, KS 67801

SOUTH CENTRAL

Jerold Wilson
707 Tulane
Big Spring, TX 79720

THE LINCOLN GEM AND MINERAL CLUB

The Lincoln Gem and Mineral Club of Lincoln, Nebraska, meets on the fourth Saturday of the month, September through May, 7:30 p.m., at the Nebraska Center for Continuing Education, 33rd and Holdrege Streets, Lincoln, Nebraska. During the summer months regular meetings are replaced by appropriate programs, field trips, and other activities which give members an opportunity to get together and share their rockhounding hobbies.

The monthly bulletin, The Pick and Shovel, published during the nine meeting months of the year, is supplemented as needed by calling committees and by additional mail announcements during the summer. The official Board meets the first Thursday of each month, except during the summer. Any member who wishes may attend the board meeting.

Traditional activities of the Lincoln Gem and Mineral Club include a Rock Swap in late January, with other clubs invited to participate, the annual show in late March, a club picnic in May, and a Christmas dinner party in December. These, of course, are always subject to general member approval. In addition to these activities the Club frequently participates with displays and presentations for various community projects, both as a club and through individual members.

Emphasis in the Club is primarily on educational matters. Each issue of The Pick and Shovel carries at least one major educational article by a club member. Silent auctions are held frequently at club meetings to raise funds for scholarships, both through the Federation and the University of Nebraska Geology Department. An active organization of Pebble Pups is maintained for the younger members. For each meeting members bring and display examples of gems, rocks, and minerals featured that month on a schedule announced by the Education Chairman.

Members of the Lincoln Gem and Mineral Club attend the meetings and shows of other clubs whenever possible and often display at the shows of other clubs. Several members serve as officers at the Federation level.

The Lincoln Gem and Mineral Club ably fulfills its purpose: "... 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."

LINCOLN GEM AND MINERAL CLUB, INC.
P.O. BOX 5342, Lincoln, NE. 68505-0342

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.

MEMBER: American Federation of Mineralogical Societies (AFMS)
Midwest Federation of Mineralogical and Geological Societies (MWF)
Nebraska Association of Earth Science Clubs, Inc. (NAOESCI)
Nebraska Academy of Sciences (NAS)
Community Arts Council of Lincoln (CAC)

Regular Meetings: 4th Saturday of the month, September thru May; 7:30 P.M.
At Nebraska Center, 33rd & Holdrege

1983 ELECTED OFFICERS:

President.....Howard Taylor, Jr.	910 New Hampshire	Lincoln, 68508	476-3707
1st Vice Pres...Glenn Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
2nd Vice Pres...Claude Scott	4917 Normal Blvd.	Lincoln, 68506	488-0739
Secretary.....Gail C. Scott	4917 Normal Blvd.	Lincoln, 68506	488-0739
Treasurer.....Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member....John Abel	2829 Van Dorn	Lincoln, 68502	423-7654
Board Member....Florence Boring	2836 S. 40th St.	Lincoln, 68506	488-6243
Board Member....Virginia Green	6120 The Knolls	Lincoln, 68512	423-5032
Board Member....Frank Rule	6333 Kearney	Lincoln, 68507	466-1697

Nominating Committee -- 3 years: Richard Haney, Wilfrid Wittman
2 years: Vera Lyman, Frank Rule
1 year: Marie Taylor, Jim Parks

LONG RANGE PLANNING AND BY LAWS COMMITTEE:

1 year - Jim Parks, Phyllis Parks 3 years - Roger Pabian, John Abel
2 years - Marie Taylor, Vera Lyman

STANDING COMMITTEE CHAIRPEOPLE:

Programs.....Claude Scott	1983 Show.....John Abel
Education/Publicity.Roger Pabian	MWF Liaison.....Marie Taylor
Hospitality.....C. Rose & J. Haney	Refreshments/Party...Marj Heedick
Historian.....John & Lillie Lewis	Scholarships.....Marie Taylor
Librarian.....Jim Parks	Outside Displays.....
Membership.....Bob & Mary Walker	Housing/Property....Claude Scott
Field Trips/Safety..	Editor.....Vera Lyman
Sunshine Corner....Susan Taylor	Junior Activities....
NAOESCI Reporter...Vera Lyman	'83 Rockhound of Year Chairman....
	John Abel

Auditing Committee 1982.....Ray Lambert, Chairman
Florence Boring, Vera Lyman

PICK & SHOVEL STAFF:

Editor.....Vera Lyman, 420 North 56th St. Lincoln, NE 68504
Club News.....Helena Baegl
Sunshine.....Susan Taylor

DEADLINE: 1st of Month of Issue. Original articles may be reprinted if credit is given the author and THE PICK & SHOVEL and a copy of the publication is sent to the Editor.



STAFF PHOTO BY ROBERT BECKER

Kathleen Young is surrounded by specimens in the Encounter Center, where the cardinal museum rule, "Do Not Touch," is broken daily.

Young shares many wonders

By Matt Truell

Kathleen Young's world is one of shared wonder: the wonder of the natural world shared with whoever walks into her room on the first floor of the University of Nebraska State Museum at Morrill Hall.

There you can break a cardinal museum rule. In fact, a sign urges visitors to do just that: "Yes, it's OK to touch."

World of women

Hundreds of specimens — bear, raccoon, owl, moose, peacock, fossils, dinosaur bones, a hammerhead shark, live snakes and insects — are there to see, touch, wonder about and ask about as part of the Encounter Center. You can pick up a real dinosaur bone, pet a live snake or listen to a Madagascar hissing cockroach; you can search in a sandbox for a real fossil — the remnants of a plant or animal back when oceans covered Nebraska 200 million years ago — and take it home with you.

"This room helps people get involved in nature and helps them realize they are part of the environment," said Young, who has been the center's coordinator for three years.

Lincoln Public Schools elementary students are Young's most frequent visitors. She believes museums should be tools of public education, one key to unlocks doors that might otherwise remain closed.

The Encounter Center offers opportunities to a visiting child rather than suggesting conclusions. Children often believe science is written in stone, everything has been discovered and all they have to do is memorize. At the Encounter Center, they learn otherwise.

"I love it when we get into things that nobody knows," Young said. "It makes people aware of the possibilities."

There's not a lot of instruction at the Encounter Center, Young said. It's hard to keep a child's attention with so much to see.

"I hope that child has maybe developed some interest and appreciation



Four-year-old Jacob Gans, son of Mr. and Mrs. Cindy Gans of Clarinda, Iowa, has a close encounter with a raccoon at the Encounter Center.

for the natural world," she said. "I use curiosity and aesthetics. You know nature is beautiful. A third thing I use is pleasure."

It is the simple joy that some understanding of the natural world can bring.

"Not all children who come in here are going to be scientists. That's not our goal," she said. But in all likelihood the children one day will vote on environmental issues, she points out.

The Encounter Center can be an important source of information for the general public as well.

"I was surprised at how many adults we have coming through the room," Young added. "I try not to emphasize children only. Museums tend to offer families a learning experience. Often they offer a social experience."

The natural world is not presented as something frightening. "We try to help people see things in nature not as formidable enemies," Young said. She explained that children are told that some things, such as crossing a busy street, can be dangerous.

Sometimes youngsters will groan when an insect is fed to either the legless lizard or the snake that is kept at

the Encounter Center (legless lizards have eyelids; snakes don't). "We never hide the concept of the food chain here," she said. That's part of nature as well.

One of the first hands-on museums was established at the Smithsonian Institution in Washington, D.C., Young said, and others have picked up the concept. It is part of a trend to make "museums more dynamic, more vital," she said.

The Encounter Center has a well-worn rug. Last year, 50,000 people — both children and adults — walked past the large piece of Black Hills rose quartz that sits near the door.

Young sees herself as a link between scientists and curators and the general public. A Lincoln native, she has a bachelor's degree in English and botany from the University of Nebraska-Lincoln and a master's degree in folklore from Western Kentucky University at Bowling Green.

Before joining the staff at Morrill Hall, she worked for the Nebraska State Historical Society as a folklorist, traveling throughout the state.

"I think the prairie is one of the most exciting things to investigate," she said.

REQUEST FOR INFORMATION TO PRESENT FOR THE ALL AMERICAN CLUB AWARD

This was supplemented by oral requests at the meetings.

* * * * *

ALL AMERICAN FEDERATION CLUB AWARD

Florence has volunteered to set up a file and collect all materials for the All American Club Award contest.

The All American Club is a chance for us to let the AFMS and MWF know what our purpose is, how we achieve it and accomplish our club projects. These are the eight major areas.

1. Service to Members and visitors at meetings.
2. Service to Members away from meetings
3. Club publicity
4. Service to other Clubs.
5. Service to Federations.
6. Service to own community and near-by areas.
7. Services to distant communities or projects.
8. Services to or involvement in Public agencies.

The only way we can cover all these areas is by everyone in the club keeping an eye out for articles about members and the club. Please pass it along to Florence with the publication it appeared in. We have a good club. Let's let people know.

MONTHLY PROGRAMS--1983 MEETINGS

January	"How to Make a Jade Bowl"	Midwest Federation
February	"Lake Superior Agates"	Dr. Roger Pabian
March	No meeting---Annual Show	
April	"Fossil Trip to Egypt"	Dr. Lloyd Tanner
May	"Spinoffs from Space"	Florence M. Boring
September	"Playground Paleontology"	Saratoga Elementary School
October	"Minerals in 3-D"	Prof. Walter Erbach
November	"Carlsbad Caverns"	Irl and Lois Everett
December	"Petrified Wood--Formation and Identification"	James Landon

FAMILIES WHO MAKE THE HOBBY -

I have known the Taylor family of Nebraska for many years. Howard and Marie raised their children in the hobby, and now that Howard is gone, his son Jim is taking the position of leadership formerly held by his father, and Susan is also an active asset to the Lincoln club, which has twice hosted the National Show.

- via Lapidary Journal
April, 1983 p. 10
By June Culp Zeitner

* * * * *

DISPLAY FEATURES FOR EACH MONTH

EDUCATION, 1983

In my closing presidential message, I lamented over my failure to have developed a strong educational program. Your new president has given me an opportunity to rectify this situation. The educational program for 1983 will entail a rock of the month and an honors night at each meeting. The rock of the month will be featured in the bulletin each month. The second educational page will deal with the area, federation, country, state, system, etc. that will be honored. For example, if one does not have any metallic sulfides to show in April, one should bring something that represents the Pennsylvanian System--a coral from Weeping Water, a leaf from Mazon Creek, etc.

Following is a list for the year:

MONTH	ROCK OF THE MONTH	HONORS NIGHT
January	Jade	South Dakota
February	Soft Carbonates, Malachite, Rhodochrosite, Dolomite	Iowa
March	Sagenitic Agate	Eastern Federation
April	Metallic Sulfides	Pennsylvanian System
May	Petrified Woods	Canada, including Nova Scotia, New Brunswick, etc.
June	Plume and Dendritic Agate	Africa
July	Phenomenal Stones, Stars, etc.	Australia
August	Quartz	Cretaceous System
September	Faceting Material	Montana
October	Opal, Tourmaline	Rocky Mountain Federation
November	Fortification Agates	Brazil
December	Gems and Religions	Europe

Remember that you can gain points toward the Rockhound of the Year award by bringing rocks for display to the regular meetings. Display cases will be furnished each month.

Also, the club's library has numerous books that have a lot of material about either the rock of the month or the honors area of the month. See our club's librarian, Jim Parks, and study ahead to get the most out of the monthly educational program.

Roger Pabian
Education Chairman

CAVES and CAVERNS - continued

Though I was interested in visiting several caves during my younger (and less rotund) years, I never had the ambition to become a spelologist, or even a spelunker. The nearest to it was to crawl under our family corncrib to retrieve a nest of Plymouth Rock eggs (not thunder eggs), hidden there by a seclusive, broody hen. That induced no local hot-dog stands---only a hot biddy; she was furious!

- Submitted by J. D. Young

* * * * *

DON'T FORGET!

DUES ARE DUE!

Dues are due, and what do you get?
A year filled with fun and friends - You bet!
You learn about rocks and minerals, too;
There's oodles and oodles of things to do.

There are field trips and shows and programs galore.
Now what do you mean.. "Can't we offer you more?"
Sure, there are scads of books you can read
To keep your old noggin" from going to seed.

There are auctions and door prizes and raffles to boot;
If you are luck enough, you can win lots of loot.
You do not have to remember...you are reminded to meet
By your monthly bulletin which we hope is a treat.

There are displays at each meeting for you to see
And hot coffee and cake, for cake eaters like me.
You can visit with friends to your heart's content,
So PLEASE PAY YOUR DUES - 'TIS MONEY WELL SPENT.

So plunk down your money and smile when you do,
'Cause there are lots of pleasures in store for you.
Can't think of a way you get more for your dough
Than by joining a rock club with get up and go.

Via Jaspilite 2/82

* * * * *

A diamond in the rough is a diamond sure enough
For before it ever sparkles, it has the diamond stuff.
Of course, someone must find it or it never would be found.
And then someone must grind it or it never would be ground.
But when it's found and when it's ground, and when it's polished bright,
The diamond is everlasting just sending out its light.
Oh, members of our Rock Club, don't say "I've done enough,"
The newest member in our club may be a diamond in the rough.

Via Jaspilite 2/82

Lincoln Gem and Mineral Club, Inc.

P. O. Box 5342

Lincoln, Nebraska 68505



PRESENTS
THE
5TH ANNUAL
WID - WINTER

BRING
DONATIONS
FOR SILENT
AUCTION

SWAPPERS
BLICKS

ROCK SWAP



TIME: NOON - 7:00 P.M.

PLACE: NEBRASKA CENTER,
33RD & HOLDREGE STS.

DATE: SATURDAY, JANUARY 22, 1983

SILENT AUCTIONS - FREE COFFEE

THE SWAP WILL BE FOLLOWED BY THE REGULAR MEETING OF THE LINCOLN GEM & MINERAL CLUB. VISITORS ARE INVITED TO ATTEND EITHER OR BOTH EVENTS. FOOD SERVICE IS AVAILABLE AT OR NEAR THE SWAP SITE - CHOOSE FROM SEVERAL FINE EATING PLACES. THE MEETING WILL BE FOLLOWED BY AN EDUCATIONAL PROGRAM RELATING TO GEMSTONES.

THE ANNUAL SHOW

MESSAGE FROM THE PRESIDENT--JIM TAYLOR

Well, "show time" is here again! I hope that you are all ready. Remember our show can only be as good as your support is. The show committee has done it's job, now it's up to the members to do their share of the job that they started. People are needed to help in several areas.

The building will be open at 9:00 A.M. the 25th. We will begin setting up tables so that the dealers can get set-up. After the dealers are in we will be ready for club members to begin setting up their displays.

There will not be a general club meeting this month because of the show. Join us instead at the cake and coffee social at 9:00 P.M. the 26th. Marge Heedick is in charge of this and needs the donation of cakes and the help of ladies from the club to serve and clean-up afterwards.

Arrangements have been completed for our Awards Breakfast which will be held at 8:00 A.M. the 27th. You will be able to register by talking to Lois Everett or stopping at the Information Table at the show. Please come and join us!

Hope to see you all at our show!

From the back cover of the Pick & Shovel:

DON'T FORGET - Our 25th ANNUAL SHOW on March 26 & 27, 1983.
On Saturday, the 26th, 9:00 A.M. - 9:00 P.M.
On Sunday, the 27th, 9:00 A.M. - 5:00 P.M.

Avoid a last minute rush! Get your exhibits ready now!

All Nebraska Club Rockhounds prepare your exhibits also. This is a State Show in conjunction with our Annual Show. Your support is needed and appreciated.

SHOW BIZ

Dear Members of the Lincoln Gem & Mineral Club:

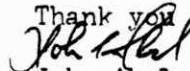
Our show is fast approaching and as the big event draws near, I am sure you are all anxious for an educational and fun filled time.

Please attend, display, and enjoy yourselves.

This is also an excellent time to bring and introduce your acquaintances to all the enjoyments of the rockhounding hobby.

A final request; your help before and after the show in setting up and tearing down is vitally needed. Please find time on Friday and after the show on Sunday for a massive group effort and quick, efficient set up and tear down.

Thank you and sincerely,



John Abel, 1983 Show Chairman

p.s. Bring material for the silent auctions to be held during the show. Thanks again.

HELP!

Friday the 25th of March is the day we will look to the members of the Lincoln Gem & Mineral Club to show their support of our Club in setting up the 25th Annual Show and State Show at the Ag Building at the State Fair Grounds

I would hope to see all of you, but I know that is not possible. The more of you that show up, the less work there will be for everyone. I will be there by 9:00 A.M. It would be nice to see a few new faces along with the usual regulars that always set up the Show. By this I don't mean just the new members.

Your Floor Chairman

Glenn

FROM THE EDITOR

LAST MONTH - At our General Meeting, three guests were present. They included Michael Smith, Whitefish, MT. friend of member James Null; Dan Rose, brother of member Don Rose; and Fred Hobart. When I first spoke to Mr. Hobart, he told me he was an uninvited, curious and interested person in our hobby and asked if he could sit in on our meeting.

I hope you were pleased with our meeting, Mr. Hobart. We sincerely hope all of you will plan to attend again and certainly want to extend a special invitation to our Show on March 26 & 27. Thanks for your interest in our hobby.

The Program, "Lake Superior Agates" was presented by Roger Pabian.

Locations of commercial and hobby use of agates were given. Many slides of beautiful agates from many parts of the world were shown. Agates are all different but very similar. Slides of various agates with eyes, plumes, pisolites, and stocks were seen. Sometimes the imagination of the structure and color formations is almost overwhelming. It was an excellent program.

The following members were nominated as delegates to the State Assocaition Meeting at our Show on Sunday. They are Glenn Lyman, Ron McColery, James Null, and James Stewart; Joyce Haney as alternate.

Announcement was also made that the Governor's Proclamation Ceremony would be held on Monday, March 7, at 11:45 A.M., State Capitol, declaring the week of March 20-27 as ROCKHOUND WEEK in conjunction with our Show.

* * * * *

safetyAT HOME - Could include such things as:

- * running the grinding wheels in the proper direction
- * never use or boil acids in a closed area
- * wear safety glasses
- * wear a dust mask with any dry procedure - sanding, polishing, carving, etc.
- * be careful when working with malachite, abalone shell or other toxic materials
- * obey warnings on containers
- * don't melt unknown silver - irreparable lung damage or death could result

- AFMS Newsletter, Feb. '83

* * * * *

Spring Marches In

Fair Warning: March always has the first day of spring, but it rarely has the last day of winter.

SUMMER ACTIVITIES

Roger Pabian, Coordinator

There will be no summer program meetings this year, but these will be replaced by several other activities.

On Saturday, June 25, there will be a field trip into Richardson and Pawnee counties. We will have an opportunity to look at some new fossil bearing outcrops of Late Pennsylvanian sedimentary rocks that are quite fossiliferous. These are unconformably overlain by Pleistocene age glacial deposits that contain some good cutting material. We will look at some Permian rocks too, and will have a chance to collect some fossils and minerals there.

On Saturday, July 30, we will sponsor a program at the Chet Ager Nature Center at Pioneers' Park. This will be an all day affair, and displays, programs, and demonstrations will be needed. We will follow the day up with a picnic and a get together at the park.

An August event is in the planning stage. It will be a little bit bigger and a little bit better than the others. Nuf said for now.

SUMMER ACTIVITIES

From The
PICK & SHOVEL
May, 1983

During the summer months, several club activities were held and those who desired might participate. June 25:

This was a field trip to Southeast Nebraska. Those in attendance did find some gem stones and fossils but it was more of a chance to get away from the 'daily routines' of life. Roger Pabian, Lynn Wells and Fred Holbert were accompanied by Mary Kay Roth (Reporter for the Lincoln Star) and her photographer husband (Lincoln Journal) who published the

story and photos in the Star. (7-16-83)

On July 16th, Irl & Lois Everett had a sale and sold a great deal of their surplus rock and gem material. I have not talked to them since the sale, but I'm sure it was a success. (Where's my Pizza, Irl?)

Marie, Jim and Susan Taylor and Roger Pabian were among those attending the Midwest Show & Convention in Kalamazoo, Michigan. The Taylors enjoyed this two-week trip attending the Show and visiting with friends in Michigan and Wisconsin; as well as those coming from other parts of the nation.

Roger presented a program on Agates at the MWF Show and also participated in a field trip to Ontario, Canada. He indicated to me that he found some excellent fossils.

The Day at Chet Ager Nature Center in July was a nice summer highlight for those in attendance. The evening was cool and made it excellent for the picnic supper which was enjoyed by Marie, Jim, and Susan; Roger; Glenn, Vera & Greg; Claude & Gail; and Ed Ridge.

Lester Hunt had been out earlier in the day and observed several of the films, but felt it was too hot for him to stay for the evening, due to health.

Remember that you can gain points toward the Rockhound of the Year award by bringing rocks for display to the regular meetings. Display cases will be furnished each month.

Also, the club's library has numerous books that have a lot of material about either the rock of the month or the honors area of the month. See our club's librarian, Jim Parks, and study ahead to get the most out of the monthly educational program.

Roger Pabian
Education Chairman

NEW PUBLICATION

"Bibliography of Nebraska Geology 1843-1976" is now available from the Conservation and Survey Division, 113 Nebraska Hall, University of Nebraska, Lincoln, NE 68588. The cost is \$5.00 for paper bound and \$10.00 for hardbound. The publication was compiled by John Sandy and Jay Fussell. It includes a nearly complete listing of geological literature pertaining to Nebraska, including geology, stratigraphy, paleontology, mineralogy, sedimentology, and other topics. This publication is a must for the collector of Nebraska's gems, minerals, and fossils.

Submitted by Roger Pabian

THE FOLLOWING PAGES ARE DEVOTED TO EDUCATIONAL ARTICLES WRITTEN DURING THE YEAR BY MEMBERS OF THE LINCOLN GEM AND MINERAL CLUB.

Included in the official bid folder, though not re-copied for this, were all of the articles by J.D. Young and by Roger Pabian, also "North Fork Bonanza" by Jim. Null.

CAVES and CAVERNS

"A hollow in the earth, especially one opening more or less horizontally into a hill, mountain, etc." is said to be a cave. A cavern is larger, but there is no definite line of distinction. They are mostly natural formations dissolved and scoured out by wind and water, usually in limestone, or by shoreline wave action.

Some caves may be formed as holes or tunnels in lava beds. They may occur after a volcanic flow of molten lava cools and hardens quickly at the surface, with liquid streams beneath the solid layers. When they flow out at a lower level the hollow tube remains. We visited some like that in the Lava Caves Park near Bend, Oregon in 1959.

Robber's Cave in Lincoln is in sandstone, probably of natural origin, but later enlarged by humans. It is not well known in recent years, but in early Nebraska history it was a very popular local place to visit. College students had school organization functions there, wiener roasts, frat parties and class picnics. There was a time when nearly every rural home had its own cave for food and produce storage, before modern methods. The old "cyclone cave" was a safe haven in stormy weather. Eastern Nebraska loess subsoil made good cave sites.

Some rockhounds are also speleologists (spelunkers) whose hobby is to explore and study caves; and there is an increasing number of tourists and vacationers, not afflicted with claustrophobia, who enjoy them too. Modern cave attractions usually have well lighted, easy passage ways with no "fat man's lament" crawl spaces to squeeze through. Some have yummy refreshment stations for tired, hungry, thirsty patrons.

I am not a speleologist, but as an interested tourist I have been through several well known caves, beginning with "Wind Cave" in the southern Black Hills in 1920; then with few facilities. We each carried a lighted candle, inserted in the wall of a metal lard pail. The guide carried a gasoline lantern, and a roll of magnesium ribbon to illuminate special features. At that time there were no elevators, no snack bars!

When atmospheric pressure is high in the Wind Cave area, the air blows into the cave, and reverses when it is low. An early day cowhand discovered it when his hat was sucked into an inconspicuous hole in the ground. This was later enlarged to permit access by people.

The "Cave of the Winds" near Colorado Springs is small, but attractive. I remember a rather amusing feature there: ladies wanting a husband were told to add a hairpin to the already growing pile and they would soon meet their future spouse. The stack of hairpins was already shoulder high, 62 years ago. I have no report to give about the current 1982 situation.

- Continued

CAVES and CAVERNS - continued

We visited "Timpanogos Cave" near Salt Lake City, Utah in 1929. It is also easily traversed and attractive. The guide referred to a huge stalactite, with red back-lighting, as "The Great Heart of Timpanogos", and he said it was a woman's heart. Of course, some one would then ask why it was of the feminine gender. The answer from the male chauvinist guide was, "Because it is so hard and cold!" There seemed to be no argument.

Carlsbad Caverns in S.E. New Mexico provided our cave thrills in 1965; the largest we have visited together. (Myrtle and our daughter, Kay, visited Mammoth Cave, Kentucky in the late 1970's while Kay was a graduate student at Bowling Green.) Carlsbad Caverns and Mammoth Cave, both underground giants, probably differ in their background formation causes. Carlsbad may have been dissolved out by action of water charged with sulfur from nearby natural gas and oil deposits. Mammoth probably was more of the usual type, where water and carbon dioxide were the solvents; and powerful "acid rain" thus formed would "eat up" the rocks, probably over eons of geologic time.

"Underground Worlds" by Time-Life Books Inc., 1982, is fascinating reading for anyone interested in natural caves and caverns, worldwide in its scope, very well illustrated, and written in understandable terms. Some elementary knowledge of chemistry and geology helps, and so does biology. Cave life differs greatly from that above ground, though alike in fundamental principles. Animals tend to become sightless, replacing vision with super-sensitiveness to vibrations and touch. Very delicate balances of food, water and waste cycles are necessary. Some living things have adapted to the complete cave environment, and some, for example cave bats, spend part of their time inside and outside the cave. Each form of life depends on other forms for its existence. That fact of ecology seems to be universal. Even bat guano is a very necessary part of the life cycles inside the caves, as well as for human agriculture.

The above-mentioned book gives a detailed account of the cave tragedy in 1925 which cost the life of Floyd Collins. At that time radio news broadcasting was just beginning (no TV. yet), and one of the world's most exciting news stories came out of the Kentucky cave country. World-wide headlines carried day-by-day progress of the futile attempt to extricate the lone cave explorer from a narrow crawl-space where he had been wedged by loosed rocks. Great crowds of people assembled outside the cave. Temporary hot dog stands sprang up. The rescue crews worked day and night. Finally after several days of unsuccessful efforts by relatives, friends and others, Floyd Collins died. His body was not removed for several years. Old timers will remember this, one of the all-time great human-interest stories.

- Continued

CAVES and CAVERNS - continued

Though I was interested in visiting several caves during my younger (and less rotund) years, I never had the ambition to become a spel-
eologist, or even a spelunker. The nearest to it was to crawl un-
der our family corncrib to retrieve a nest of Plymouth Rock eggs
(not thunder eggs), hidden there by a seclusive, broody hen. That
induced no local hot-dog stands---only a hot biddy; she was furious!

- Submitted by J. D. Young

* * * * *

-- J. D. YOUNG

During the 28 years of the Lincoln Gem & Mineral Club's history, many members have written articles for the Pick & Shovel. But it can be said that no one has submitted as many as J. D. Young. I considered it a timely tribute to submit the Titles and issues of the articles he had submitted. All the articles are original, (with few exceptions) and his sources of information are given proper credit in each article.

Some of you may have saved all your issues of the Pick & Shovel. If not, and you find an article which interests you, the Club Library will have a copy you may use.

Our special thanks to Mr. Young for his faithfulness in contributing to our Bulletin and in submitting this list.

Date	Pages	Title of Article *
Feb. 1969	10	SALUTE TO THE POET LAUREATE
Nov. 1969	3	THE FARMER'S THANKSGIVING
Nov. 1972	14	NEIHARDT - The Creative Flame
Sep. 1973	11,12,13	THE HUGH GLASS STORY
Feb. 1974	13	THE POET'S TOWN
June 1974	14	One of John Neihardt's Hobbies Was Lapidary
Oct. 1974	7,8	LONESOME FLATLANDS REVISITED
Sep. 1975	8	CYCAD - GHOST OF ANCIENT FOREST
Oct. 1975	9,10	CYCAD - POET-PRAYER GARDEN
Jan. 1976	7	THE 200th BIRTHDAY OF THE U.S.A.
Feb. 1976	11,12	Concerning Leap Years and Calendars
Mar. 1976	11,12	BRAINY BIRDS-PANICKED POODLES-CHAMPION CHARTER
Apr. 1976	5,6	EASTER; NEIHARDT CULTURAL CENTER
"	13,14	Do-it-yourself Easter Date - Cripple Creek Mystery
May 1976	7,8	THE POET'S TOWN - THE CALF PATH
"	11,12	progress-Progress-PROGRESS; OVER THE SHOULDER
Sep. 1976	11,12	Dinosaurs - The long Hot Summer
Oct. 1976	9	SCHOOL - September gone, One down and eight more to go.
Nov. 1976	11,12	Thanksgiving Day - Pilgrim's Pet Rock
Dec. 1976	9,10	Children's Poems - A Child's Prayer
Jan. 1977	9,10	THREE DAYS OF FURY
Feb. 1977	9,10	FEBRUARY CONGLOMERATE (no pudding stone)
Mar. 1977	11,12	ART-ARTIST, ARTISON-ARTIFICER
Apr. 1977	13,14	GYPSIES---BLESSINGS---BAD LANDS
May 1977	7	THE SPIRIT OF ST. LOUIS FLIES AGAIN
"	8	THE NEIHARDT CULTURAL CENTER
Sep. 1977	9,10	Neihardt Day - Bancroft, Nebraska
"	13,14	Ghosts of the Ancient Forest
Oct. 1977	11,12	I REMEMBER WHEN --- and What.
Nov. 1977	13,14,15	QUARTZITE-CATLINITE-SATELLITE-dolls
Dec. 1977	9,10	AMTRAK - DENVER or BUST

-- continued

J. D. YOUNG - continued

Date	Pages	Title of Article *
Jan. 1978	11	MEMORIES OF GEORGE
Feb. 1978	13,14	SUNDOGS -- Rockhounds, beware!
Mar. 1978	15,16,17	THE NUGGET SHINES AGAIN
Apr. 1978	11,12	COREOLIS FORCE - The Spinner
May 1978	13,14	HAVE RAFT - WILL TRAVEL
Sep. 1978	11,12,13	WHITE WATER-WHITE CHALK-GREEN PRAIRIE
Oct. 1978	9,10	NEIHARDT DAY - August 6, 1978, Bancroft, NEB.
Nov. 1978	9,10	THE BUTCHER, THE BAKER, THE CANDLESTICK MAKER
Dec. 1978	7,8	WATER - The Great Substance-A Mineral
Jan. 1979	9,10	TIME and things
Feb. 1979	13,14	SOLAR ECLIPSE Feb. 26, 1979
Mar. 1979	7,8	EASTER SUNDAY, March 23, 1913
Apr. 1979	7	FORCE-ENERGY-WORK-POWER-PRESSURE
May 1979	7,8	THE ENERGY CRISIS
Sep. 1979	13,14	NEIHARDT DAY, BANCROFT, NEBRASKA, Aug. 5, 1979
Nov. 1979	7,8,9	DAKOTA and MINNESOTA JOURNEYS
Dec. 1979	7,8	LGMC 25th BIRTHDAY - JANUARY 15, 1980
Jan. 1980	9,10	HAPPY NEW YEAR-(yes, but what kind?)
Feb. 1980	13,14,15	GOLD (Aurum Au)
Mar. 1980	11,12	WEATHER and CLIMATE
Apr. 1980	15,16	PLATE TECTONICS and RIFT VALLEYS
May 1980	11,12	CAMELS - Fossil and Recent
June 1980	15,16	NEBRASKA'S CAPITOL - Lincoln the Capitol
Sep. 1980	6	MOUNTAIN MEN'S RENDEZVOUS
Oct. 1980	11,12	L.G.M.C.'s Aviatix, Writer, Educator
Nov. 1980	13,14,15	SHORT TRIPS - Long Memories
Dec. 1980	7,8	NEIHARDT CENTENNIAL - January 8, 1981
Jan. 1981	7,8,9	MOTHER EARTH'S ROCK FAMILY
Feb. 1981	11,12	FEBRUARY CONGLOMERATE
Mar. 1981	9,10	THE OWEN MAGNETIC CAR
Apr. 1981	13,14	WATER - Nebraska's Great Resource
May 1981	7,8	THE SPACE SHUTTLE - and such
Sep. 1981	10,11,12	MURDO'S DIAMOND JUBILEE
Oct. 1981	12,13	FIRE - Friend and Foe
Nov. 1981	8,9	BERTRAND - - the Lost Steamboat, April 1, 1865
Dec. 1981	6,7	ALLOONISTS - To Cosmonauts
Jan. 1982	6,7	SNAKES - and other Varmints
Feb. 1982	7,8	FLOODS and MUD SLIDES
Mar. 1982	7,8	HOW OLD IS IT -- Carbon-14 knows
Apr. 1982	8,9	MATEO TEPEE - The Devil's Tower
May 1982	8,9	HAVE URGE? - Then Travel!
Sep. 1982	8,9	NEIHARDT DAY - Sunday, August 1, 1982
Nov. 1982	6,7,8	KORCZAK ZIOLKOWSKI - Mountain Carver
Dec. 1982	8,9	THE INDISPENSABLE JIM BRIDGER
Jan. 1983	7,8,9	CAVES and CAVERNS

- Submitted by J.D. Young

* The titles are printed exactly as they appeared in each issue.

"GIANTS FROM THE PAST"

During over 60 years of National Geographic Society membership, I have received more than 720 monthly National Geographic Magazines. (beginning at \$3.00 and now \$15.00 per year) I have purchased many books published by the Society. One of the most interesting came recently, with the above title.

Nebraskans should be proud of their state's fame in many fields, and especially in paleontology. The State Museum on the Lincoln campus is outstanding, because of its displays, and its dedicated, expert personnel.

Lincoln Gem and Mineral Club members have cooperated with the Museum. Many of our programs and activities have been aided by museum staff persons. About 20 years ago some of our Club's members worked diligently in helping to recover a large, rare Plesiosaur skeleton from its prehistoric burial site near Valparaiso, about 25 miles northwest of Lincoln. (It is one of our museum's attractions.) They have helped to prepare exhibit specimens from other areas.

Some of Nebraska Museum's collection and staff are featured in the Geographic's book on several pages with pictures and text. Among them are a long-time early Director, Dr. E. H. Barbour, and Vertebrate Paleontology Director, Dr. Michael Voorhies. Dr. Barbour had much early contact with the world-famed "Agate Fossil Beds" on Captain Cook's Ranch in NW. Nebraska. Dr. Voorhies has been very much involved with the recent important find of many rhinoceros and other well-preserved skeletons. (see National Geographic Magazine, Jan. 1981 pp66-75)

The Agate Fossil Beds are now a National Monument, with one of the world's greatest deposits of vertebrate fossils; the Voorhies rhinoceros site near Orchard, Nebraska is ranked among the greatest of its kind anywhere.

There are many other places in the U.S. where great sources of fossil specimens are found, some are unique, such as the "La Brea Tar Pits" at Los Angeles, but the Nebraska finds at Agate and Orchard are our "very own," and also unique!

Most rockhounds do not need a definition of "fossil", but here is one anyway: "any remains, impression, or trace of an animal or plant of a former geologic age, as a skeleton or footprint." Many of us are interested in fossils as well as gemstones and minerals. Even the smallest and least attractive specimens will delight children. When they find one in the field they feel "it has made the day."

Some people still believe that fossils were "planted" in the earth by evil spirits just to confound humans. Some scientific theories and opinions may be amended, but most scientists always seek truth and enlightenment, evil spirits or not. Time scales for dating events or phenomena may be changed by later understanding.

"GIANTS FROM THE PAST" - continued

Fossils are found from Pole-to-Pole of the earth. Evidently climate and other environmental conditions have varied throughout past history. Certain forms of life have been favored, or handicapped, at times for short or unbelievably long periods. The unadaptable have become extinct, sometimes with no apparent reason.

Conditions were not always favorable for preservation of fossil remains of extinct species. Evidences of their existence may be lost forever, while some have left many easily recovered parts, imprints or even entire well-preserved, articulated skeletons.

Careful recovery and intelligent study of specimens reveals many facts about an ancient creature's characteristics and its environment. Accurate interpretation of all evidence employs knowledge of all sciences. Skill, patience, persistence and financial aid are needed. Valuable, important fossils may be easily damaged or lost by careless recovery, transportation, storage and handling. Controls of collecting are enforced in some areas, and most thoughtful rockhounds obey them.

The "Giants" mentioned in the Geographic book include, for example; elephants (mammoth and mastodons), camels, beavers, cats, rhinos, sloths, pigs, deer and armadillos. Many are features of Nebraska, and its museum has specimens on display of most of them. Reconstructions of some are of the world's largest ever found. A hornless rhinoceros (Baluchitherium) is 17 feet tall, a giant pig is 6 feet (Dinohyus). The mounted mammoth 14 feet tall, found in Nebraska, is said to be the world's largest, and Mammoth it really is!

Nebraska's climate must have been almost tropical at times, then frigid and partly covered with slowly moving glacial ice sheets over part of the area. In the far northern countries frozen animals are found still preserved in perpetual glacial ice, a sort of permanent "deep freeze."

Intense clouds of volcanic ash drifted in from extinct far-off eruptions, killed and preserved many forms of life on earth. That is what happened millions of years ago near where Orchard, Nebraska now stands, and there are many more similar examples of this same kind of natural violence. The "La Brea Tar Pits" is a place in Los Angeles where water has covered a natural basin of tar, and thirsty animals were trapped and preserved in the goo. Great floods have drowned and covered animals, such as at Agate, Nebraska.

Visit our Nebraska Museum and enjoy one of the nation's No. 1 attractions. It is much more than "just a dead circus"!

- Submitted by J.D. Young

ATMOSPHERE

Earth, air, fire and water. People once believed these four terms included all of planet earth's material, and they called them the four elements. In a broad sense the idea was true but it involves the wrong use of the word "element" and its meaning. The four are featured in the classical art theme in the ceiling of the Governor's Reception Room in the famed Nebraska State Capitol Building, considered by experts to be one of the World's architectural wonders.

In modern usage "elements" means "materials that can not be separated into different substances by ordinary chemical methods." Instead of only four they now number over 100! The list recognizes 92 "natural" elements ranging in atomic number from hydrogen No. 1 to uranium No. 92 plus about a dozen "artificial" "Johnny-come-lately" nuclear monstrosities. The original four are not in the list. Those beyond 92 atomic number are said to be "transuranic" and are usually short-lived and radioactive. They are the pets of nuclear scientists. We "have come a long way" from the classical four to the more than 100 now believed to compose all earth materials. These are classified as solid (lithosphere), liquid (hydrosphere) and gas (atmosphere). There is also an electrically neutral high temperature plasmatic state now added.

These states of matter are now known to be much more complex in their nature than early humans thought. They could understand solids and liquids more than they could the invisible forms or states. Because air is invisible, odorless and rather imponderable, people were unaware of the facts about the atmosphere, its composition, physical characteristics and functions.

Most of the atmospheric knowledge has been learned in the last four centuries and much of that during the present generation's memory. There was an ancient belief that the earth was a flat disk floating in a universe of water. The water-air relationship in evaporation, condensation and freezing was then little understood. Winds were thought to be the result of trees waving back and forth!

One elderly philosopher who had fostered the 4-element idea wished to disappear from the earth so completely that people would believe he had been wafted away to become a god. So he jumped into the active Mt. Etna crater. The eruption spit out his bronze sandals, and the act was "snafued." Most old-timers could not "savvy" the atmosphere and its behavior; even the genius Aristotle had very unscientific ideas about it. The great reputation of his famous intellect was unchallenged for many centuries. (he probably had good press agents) Of course, everyone subscribed to the old cliché "Nature abhors a vacuum".

What the future holds for the atmosphere now concerns thinking people. Air pollution is a very popular subject, not to be disregarded. Current living standards demand processes and techniques that were no problems until the current century. Factories and

ATMOSPHERE - continued

modern living practices discharge unbelievable quantities of gases, vapors and small particles. Volcanoes, hot springs and forest fires pour out enormous amounts of pollutants. Decay of organic matter is another natural, silent factor; and so is lightning, though not silent.

The character of the earth's weather and climatic conditions are so dependent on atmosphere that scientists now are taking much keener interest in this once mysterious part of the classical "four elements." The present generation of earthlings is the first one in all human history to be so pampered by weather reports and road-conditions information through various media. Though they may not always be completely reliable, they are becoming more-and-more of our daily concern and guidance.

Modern devices, techniques and services are prime necessities for comfort, safety and success in all human activities. The old adage "Everyone talks about the weather but nothing is done about it" is still partly true, but it is being altered. Much is being done about it to soften the adverse effects of weather and climate for all life on earth. The actual control of weather factors has not yet been very successful, but progress is being made through more research and learning about the hitherto least understood part of our world - the atmosphere.

Such devices and techniques as are involved in the Sandsat and other satellite programs have been in the news for several years, and they are good examples. The March, 1983 issue of The Pick and Shovel, pp 9, 10, 11, "Eros Data Center, Sioux Falls, South Dakota", by L.G.M.C. member, Florence Boring, is an excellent source of information about this.

The atmosphere is more than just a lot of free air overhead. It is packed with air-space craft, volcanic ash, contrails, exhaust and other particles, (and we hope no ballistic missiles.) Some are harmless, but others are potential dangers to all life on earth.

No wonder the jet stream occasionally goes awry!

- Submitted by J.D.Young

safety

BE AWARE OF EMERGENCY PLANS OF SCHOOLS YOUR CHILDREN ATTEND.

PRACTICE WHAT YOU WOULD DO IN AN EMERGENCY WITH YOUR FAMILY.

BE AWARE OF THE EMERGENCY PLANS OF THE CHURCHES AND THE COMMUNITY.

- via AFMS NEWSLETTER, April 1983

NEIHARDT DAY - August 7, 1983

The 18th annual observance honoring the late John G. Neihardt was held at Bancroft, as usual on the first Sunday in August. He was Nebraska's Poet Laureate from 1921 until his death Nov. 3, 1973, and retains the title "in perpetuity." He was an honorary life member of Lincoln's Gem and Mineral Club. Several hundred people attended the program under the shade trees after they visited the exhibits in the main building of the Neihardt Center, a branch museum of the Nebraska State Historical Society. The Poet planted some of those trees in early 1900's.

This year's theme "The River and I" commemorated Neihardt's heroic open-boat trip down the Missouri from it's Head of Navigation at Ft. Benton, Montana to Sioux City, Iowa, in 1908. He started with his home-made boat, "The Atom I", traded it for "The Atom II" and reached Sioux City 56 days later. A teenage boy survived the entire lonesome, hazardous voyage, but two cooks and an expert photographer "jumped ship" along the way. The faithful boy, Chester Marshall, called "The Kid" in Neihardt's book, "The River and I", grew up, married and was killed in a car-pedestrian accident. He had a small daughter who is now a nun in Omaha. His grave is just inside the gate in Bancroft's cemetery.

Neihardt undertook that risky boat trip 75 years ago after he was commissioned by Casper Whitney to do it and write a series feature for "Outing Magazine". The Poet was a vigorous, ingenious, 27-year old writer. He wrote the brilliant, thrilling story, and in 1910 published it in prose, replete with 50 full-page pictures.

A Missouri River trip retracing Neihardt's adventure is being planned for this autumn or next summer. The party probably will include Bob Handy, a dramatics producer; Hilda Petri, Neihardt's 2nd daughter; Christopher Sengel, the Dramatics Publishing Co.; and Richard Collins, great nephew of "The Kid" in Neihardt's "The River and I." The 1908 trip's adventures and hardships will be lacking!

Today's Missouri River is not the same as its 1908 ancestor, but there are plenty of exciting places and superb scenery to be experienced. Much of the wild, "Big Muddy" has been tamed by five huge dams, to be portaged downstream after traversing long artificial lakes. In 1968, with Dr. Neihardt, Myrtle and I stopped our car mid-way across the highway crossing on the crest of the great Oahe dam near Pierre, So. Dakota. The Poet's aging eyes scanned the southern edge of the nearly 200 mile-long lake extending to Bismarck, N. Dakota and he said, "That's not my river any more!"

In the early 1970's one of the Poet's former University of Missouri (Columbia) students offered him to retrace his grueling 1908 trip, not by home-made open boat in 56 days, but in the student's private airplane. That generous man was killed in a traffic accident before the flight could be made!

TODD VALLEY - Ancient and Modern

Todd Valley; you may not have heard of it. I became aware of it, a segment of our Platte River System, in the autumn of 1920. This came through one of my routine interviews with Dr. George E. Condra, Nebraska State Geologist and director of the Conservation and Survey Division. These were a pleasant part of my inspiring assignments as a reporter and feature writer for "The Daily Nebraskan".

The Platte, "eons ago", flowed through Todd Valley in its course near Cedar Bluffs and southeast to near Ashland, Nebraska. Geologists, for example, Dr. Condra, Dr. A. L. Luhn and Dr. Gilbert Lueninghoener, have reasoned why it abandoned that part of its channel to one beyond a hill region south of Fremont. The story of Todd Valley has been one of my fondest memories through the past 63 years, first by Dr. Condra, later by Dr. Luhn in one of three geology-related courses in which I was a student, and recently explained by Dr. Lueninghoener by field trips near Fremont. Possibly "Pick and Shovel" readers may remember the first two mentioned geologists, and L.G.M.C. October, 1983, program attendants had the pleasure of meeting a visitor, Dr. Gilbert Lueninghoener.

Since Dr. Condra in 1903 named the Todd Valley in honor of Prof. J. E. Todd of Vermillion, So. Dakota, techniques have improved, including aerial photography which was just beginning about 1920. New discoveries have been made in the topography and composition of land and water. Dr. Condra gave me two of the earliest aerial photos made over Lincoln. One pictured the U.N.L. East Campus, then officially called Agricultural College. (dubbed Cow College!)

On countless trips over 60 years Myrtle and I have driven Hy. 77 from Lincoln to Fremont and beyond. We always observe Todd Valley between Wahoo and Fremont, on either #77, or alternate #109 toward Cedar Bluffs. we note its general flatness, its lack of ravines for drainage, and its many hummocks or knolls. After rainy spells or snow melt there are pools of water. Some of these in early times may have become "buffalo wallows", often yielding early-American hunting artifacts. Eventually the water drains down through the thick layers of glacial sand or gravel. We have pointed out Todd Valley to numerous travel companions who otherwise had not known.

Recently Florence Boring, Myrtle and I enjoyed field trips in the Fremont area with Midland College's capable geologist-astronomer, Dr. Lueninghoener, in his car, more than 200 miles total. The trips featured glaciation and inter-glacial areas all identified in eastern Nebraska.

Prior to the trips we were given pertinent literature and briefing with projected drawings and verbal explanations by Dr. Lueninghoener in the Lueninghoener science-planetarium building.

TODD VALLEY - Ancient and Modern - continued

This was very helpful to us on the trips later; and fortunately the weather was ideal. We enjoyed a delicious picnic lunch at Dead Timber Park north of Scribner, provided by Florence. That place has scientific as well as recreational features, one of Nebraska's many. On our return to Fremont from that trip we came over #30 through Ames and saw where the old Todd Valley Channel was abandoned. Dr. Condra first observed this from a train near Cedar Bluffs and returned with a horse and buggy for further study.

I cannot relate all of the places of interest as we drove over this ancient complex of river systems. Geologists have gradually coordinated the many obvious facts revealed by physical, chemical and biological evidences as shown by aerial and surface observations, and through subterranean drilling, all of which are necessary to understand the areas.

One of the most important sketches given us in our pre-trip briefing was an idealized cross section of the whole area showing the sequence of the several terraces produced by erosion and the glacial and interglacial periods. These were lettered and numbered from the bottom up from F-zero to F-4. F-zero is the present Platte Valley. The pattern of the drawing is symmetrical; the formations represented in the figure may extend over many miles of distance horizontally, and may be irregular with portions removed or varied by erosion or glaciation. Todd Valley Formation is one of the important designated layers. Related segments of the terraces are recognized by experts. Index fossils are important; human artifacts are recent. No human artifacts are found in earlier layers.

Buried topography is complex, and is discovered through well drillings. Sands and gravels came from glacial melt-water. Gumbo is leached, old weathered "till". Loveland loess (reddish soil) was deposited by wind over the Kansan till. Peorian loess (yellow) was deposited by wind over the Todd Valley formation, probably blown out of the Sand Hills.

Riverview housing development south of the present Platte just west of Hy #77 has had problems involving water wells, landslides and sewage disposal, because of sub-surface layers, understandable to geologists, but evidently not to builders.

Some opinions may differ as to why the Platte River abandoned Todd Valley, but the concensus is that it became gorged with glacial sediments, and probably an enormous ice-jam which enabled another stream, possibly the Elkhorn, to "pirate" it and force it to the north side of the hills just south and west of Fremont.

Keep some of this in mind when you travel from Wahoo to Fremont and beyond, either by land or by air.

"GIANTS FROM THE PAST"

During over 60 years of National Geographic Society membership, I have received more than 720 monthly National Geographic Magazines. (beginning at \$3.00 and now \$15.00 per year) I have purchased many books published by the Society. One of the most interesting came recently, with the above title.

Nebraskans should be proud of their state's fame in many fields, and especially in paleontology. The State Museum on the Lincoln campus is outstanding, because of its displays, and its dedicated, expert personnel.

Lincoln Gem and Mineral Club members have cooperated with the Museum. Many of our programs and activities have been aided by museum staff persons. About 20 years ago some of our Club's members worked diligently in helping to recover a large, rare Plesiosaur skeleton from its prehistoric burial site near Valparaiso, about 25 miles northwest of Lincoln. (It is one of our museum's attractions.) They have helped to prepare exhibit specimens from other areas.

Some of Nebraska Museum's collection and staff are featured in the Geographic's book on several pages with pictures and text. Among them are a long-time early Director, Dr. E. H. Barbour, and Vertebrate Paleontology Director, Dr. Michael Voorhies. Dr. Barbour had much early contact with the world-famed "Agate Fossil Beds" on Captain Cook's Ranch in NW. Nebraska. Dr. Voorhies has been very much involved with the recent important find of many rhinoceros and other well-preserved skeletons. (see National Geographic Magazine, Jan. 1981 pp66-75)

The Agate Fossil Beds are now a National Monument, with one of the world's greatest deposits of vertebrate fossils; the Voorhies rhinoceros site near Orchard, Nebraska is ranked among the greatest of its kind anywhere.

There are many other places in the U.S. where great sources of fossil specimens are found, some are unique, such as the "La Brea Tar Pits" at Los Angeles, but the Nebraska finds at Agate and Orchard are our "very own," and also unique!

Most rockhounds do not need a definition of "fossil", but here is one anyway: "any remains, impression, or trace of an animal or plant of a former geologic age, as a skeleton or footprint." Many of us are interested in fossils as well as gemstones and minerals. Even the smallest and least attractive specimens will delight children. When they find one in the field they feel "it has made the day."

Some people still believe that fossils were "planted" in the earth by evil spirits just to confound humans. Some scientific theories and opinions may be amended, but most scientists always seek truth and enlightenment, evil spirits or not. Time scales for dating events or phenomena may be changed by later understanding.

"GIANTS FROM THE PAST" - continued

Fossils are found from Pole-to-Pole of the earth. Evidently climate and other environmental conditions have varied throughout past history. Certain forms of life have been favored, or handicapped, at times for short or unbelievably long periods. The unadaptable have become extinct, sometimes with no apparent reason.

Conditions were not always favorable for preservation of fossil remains of extinct species. Evidences of their existence may be lost forever, while some have left many easily recovered parts, imprints or even entire well-preserved, articulated skeletons.

Careful recovery and intelligent study of specimens reveals many facts about an ancient creature's characteristics and its environment. Accurate interpretation of all evidence employs knowledge of all sciences. Skill, patience, persistence and financial aid are needed. Valuable, important fossils may be easily damaged or lost by careless recovery, transportation, storage and handling. Controls of collecting are enforced in some areas, and most thoughtful rockhounds obey them.

The "Giants" mentioned in the Geographic book include, for example; elephants (mammoth and mastodons), camels, beavers, cats, rhinos, sloths, pigs, deer and armadillos. Many are features of Nebraska, and its museum has specimens on display of most of them. Reconstructions of some are of the world's largest ever found. A hornless rhinoceros (Baluchitherium) is 17 feet tall, a giant pig is 6 feet (Dinohyus). The mounted mammoth 14 feet tall, found in Nebraska, is said to be the world's largest, and Mammoth it really is!

Nebraska's climate must have been almost tropical at times, then frigid and partly covered with slowly moving glacial ice sheets over part of the area. In the far northern countries frozen animals are found still preserved in perpetual glacial ice, a sort of permanent "deep freeze."

Intense clouds of volcanic ash drifted in from extinct far-off eruptions, killed and preserved many forms of life on earth. That is what happened millions of years ago near where Orchard, Nebraska now stands, and there are many more similar examples of this same kind of natural violence. The "La Brea Tar Pits" is a place in Los Angeles where water has covered a natural basin of tar, and thirsty animals were trapped and preserved in the goo. Great floods have drowned and covered animals, such as at Agate, Nebraska.

Visit our Nebraska Museum and enjoy one of the nation's No. 1 attractions. It is much more than "just a dead circus"!

- Submitted by J.D. Young

PLUME OR DENDRITE

It is not uncommon to see some agates from west Texas labeled as dendritic agate, and it is not uncommon to see some agate from Montana labeled as plume agate. Is there a fundamental difference between dendrites and plumes?

Plume agates from about 18 miles south of Alpine, Texas have been known since about 1890, having first been recorded by the pioneer geologist, Udden. Some of these agates were displayed in the Texas Pavilion at the Trans-Mississippi exposition in St. Louis, in 1901. The plumes are characterized by feathery inclusions made up of metallic sulfide minerals, usually marcasite or pyrite. Some other sulfides have been seen to form plumes and these include cinnabar, orpiment, realgar, and possibly stibnite. In the west Texas agates, the agate has formed around the plume; it is not too uncommon to see an occasional bubble beside one of the tiny sulfide crystals. The west Texas agates occur in andesitic rocks of Oligocene age. It is known that minerals crystallize out of a magma or lava in a given order--- Olivine-Pyroxene-Amphibole-Biotite, followed by feldspars, quartz, and hematite. The final product to crystallize is the sulfide minerals. These can crystallize in vugs formed by gases in the lava or magma. Thus, the plumes are there first. After the lava flows have been extruded, highly explosive volcanic eruptions of rhyolitic lavas may deposit welded tuffs or ignimbrites over the andesitic rocks. The tuffs are excellent sources for silica. As the tuffs are weathered, silica is leached from them and is in turn deposited in the vugs that contain the late-stage plumes that crystallized in the vugs in the rocks formed by the previous eruption. Thus, in plume agates, the plume was there first and the agate formed around it. Some of the plume forming minerals may be oxidized to an oxide such as hematite or limonite---products formed from the weathering of sulfide minerals.

In dendritic agates, we have a different story. The agate first forms in a cavity in extrusive rocks or even sedimentary rocks. Dendrites are formed by oxide minerals such as limonite, pyrolusite, and a host of other manganese and iron minerals. The dendrites form when the agate spends some time being permeated with solutions (probably water) that is saturated with minerals. The dendrites are laid down in the spaces between the bands of the agate or along fractures within the agate. In other words, the agate is there first and the dendrites form within the agate. There is a fundamental difference between plumes and dendrites.

Cutting nodules of plume agate to reveal plumes is not too difficult. One need remember only to cut the agate in the longest, flattest direction---just as one would slice a biscuit. I usually tumble the rind off of these agates to get a view of what is inside and how it lays. Then I block up the nodule in plaster or simply glue it to a board with Elmer's or similar glue. Often I will use a magic marker to make lines to which the cut is parallel. I never get impatient with any of the plume agate nodules. I am just now cutting some specimens that I collected in May of 1974.

Some fine dendritic agates may not show a trace of dendrites when the agate is candled by passing light through it. It seems that the microcrystals of chalcedony have fiber-optic properties such that light passes in just one direction. I have seen some Montana agates that were slabbed and the slabs appeared clear and devoid of plumes in one direction and were loaded with plumes in the other. Clarity is no sign that a Montana agate will have no plumes. Some of the finer plumes come in some very unlikely-looking nodules. Often, the flat nodules will have the finer dendrites. These should be blocked up and cut as a biscuit. Fine dendrites can also be found in the spaces between the parallel bands of the onyx variety of Montana agates.

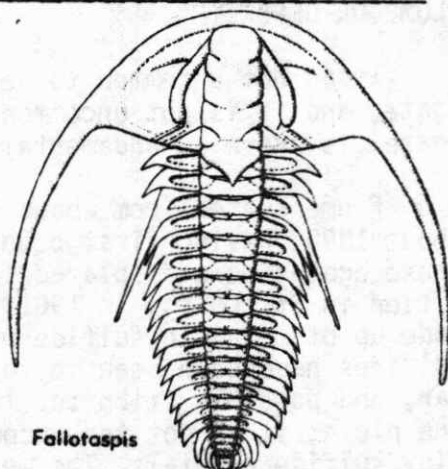
Roger Pabian
Education

AFRICA

My first encounter with Africa came when I was in the U.S. Army in 1955. I was on my way to Naples, Italy on a Merchant Marine vessel. We had a one day shore leave at Casablanca, then in French Morocco, and did the things that Americans are expected to do such as sip cognac in a bar that might have been owned by Rick Blaine, and visited the flea markets where pickpockets ran wild. I did not lose my money but at least one of our group did.

The following day our ship sailed along the north coast of Morocco, just several miles off shore, and we were treated to a spectacular view of the Atlas Mountains. These mountains are colorful and scenic and give one the impression of the Grand Canyon having been turned inside out. The Atlas

Mountains have yielded some very interesting early Cambrian age trilobites such as *Fallotaspis* shown above. This peculiar trilobite has been reported from only that area. During the late 1950's, a movie was filmed in this area and one of the stars, Piper Laurie, a rock collector, wrote a news item about her adventures. She told of finding both amethyst crystals and agates in these mountains.



Fallotaspis

From Treatise on Invertebrate Paleontology, Vol. 0, p. 0191

If we look at the opposite end of the continent, we find diamonds in the Union of South Africa. About 80 percent of the world's gem grade diamond production comes from just five mines in this area. These mines are called the "Big Five." The most famous diamond to have been mined there is probably the Cullinan Diamond. It weighed over 3,000 carats and was just a cleavage off of a larger diamond that was never found. The Cullinan was cut into a number of smaller stones that now reside in the crown jewels of Great Britain.

The Tsumeb region in South Africa is well known to mineral collectors. Many fine mineral specimens have been collected in this area. Green quartz crystals are perhaps the best known but numerous mineral species have been collected there. A glance at the booths of mineral dealers at shows or a look at the advertisements in the various journals will reveal a great diversity of minerals from Tsumeb.

Botswana is well known for its agates. These are often seen at shows; they have interesting patterns but almost all are a purplish blue or a gray color. They are easy to polish and relatively fracture free. The Botswana agates have formed in deeply weathered, late Precambrian age basaltic rocks. They are sometimes referred to as "African Lakers" because of their similarity to Lake Superior Agates. It is interesting to speculate that these agates may actually belong to the same population of agates that includes the Lake Superiors. Many geologists believe that in the late Precambrian time, there was but a single panagean continent. All of these agates may have formed at the same time on the same continent, marking the worldwide late Precambrian unconformity.

Some very colorful agates have come from Malawi. These have colors that rival the fine agates of northern Mexico. Unfortunately, most are badly fractured and most also contain great amounts of euhedral quartz.

Bring any African material for display. Cases will be there.

Roger Pabian
Education

EROS Data Center, Sioux Falls, South Dakota

Exciting things have been happening in the discovery of our earth's surface ever since the launch of the first Earth Resources Technology Satellite, ERTS-1 (later renamed Landsat 1) July 23, 1972. The best way to learn of these new discoveries, how they are made, and what uses can be made of them is to visit the EROS Data Center sixteen miles northeast of Sioux Falls, South Dakota, as I was privileged to do the last of January.

EROS is the acronym for Earth Resources Observation Systems. For the first three Landsats it was a program of the U.S. Department of the Interior, administered by the Geological Survey. EROS was established in 1966 "to apply remote-sensing techniques to the inventory, monitoring, and management of natural resources." The EROS Program provides remotely-sensed data to scientists, resource planners, managers, and the general public throughout the world. To make the data useful, research and training programs are provided. People come to Sioux Falls from all over the world to take these courses, which provide assistance in applying the data to agriculture, forestry, geology, hydrology, and other studies of the environment and natural resources.

Sitting by itself on the wind-swept (snow-drifted when I saw it) plains of South Dakota, the EROS Data Center is an impressive but lonely-looking facility. Its main building is huge in area (120,000 square feet) but low in profile. Its heart is a central computer complex which controls a data base of more than six million images and photographs of the earth's surface features. The sight of all those computers might be a thrill to some people, but for me the real delight was in the clarity of the images and photographs and the beauty of the false-color imagery. Some of it rivals the brightest works of art.

The false-color images result from color enhancement of composite images from four different bands of the electromagnetic spectrum. The light we see and in which we are accustomed to taking pictures is only a very small part of the electromagnetic spectrum. However, we are acquainted with ultraviolet (as in bug killers), of shorter wave length; and with infrared (as in heat), of longer wave lengths. The multispectral scanner in a Landsat satellite uses the green band to emphasize the movement of sediment-laden waters and to show areas of shallow water, such as shoals, reefs, and the like; the red band, to show cultural features, such as cities; the near-infrared band, which emphasizes vegetation, the boundary between land and water, and landforms; and a slightly longer near-infrared band, which improves the penetration of atmospheric haze. Four images of the same area at the same time are thus produced and may be viewed singly, placed one over the other in black and white, or enhanced with color to bring out the surface features.

With the color enhancement, red areas are vegetation in various stages of vigor and growth; black or dark blue shows water. Water with suspended sediment, and range land often show light blue. Urban areas will be light blue or blue-gray. White may indicate clouds, snow, sand, surf, or bare soil. The questions that can be answered from data such as this

EROS - continued

are endless: for instance, not only how extensive are croplands, but what crops are being grown, are they growing well--any lack of soil nutrients, lack of water, or infestation with insects or disease. The near future bears the promise that irrigation water may be conserved by applying it only when and where satellite survey shows it to be needed rather than to entire fields on a predetermined regular basis.

Other areas of human need are also being addressed. The amount of snow cover is important in determining the availability of water for irrigation and for human consumption. Surveillance of ice breakup in northern waterways has already saved millions of dollars in shipping costs. Monitoring sedimentation in lakes and oceans has great implication for soil conservation. Geological survey by satellite directs oil and gas prospectors where to search. The applications are endless.

Each Landsat carries not only the multispectral scanner but a television system (return beam vidicon) and a data collection system to relay environmental data from ground-based systems. This is the kind of information that may someday predict the time and location of earthquakes from the swelling of areas along earthquake faults, as is already being monitored along the San Andreas Fault in California.

Landsats 1 through 3 orbited the earth at an altitude of 570 miles in a circular orbit which passed north to south in the daytime. Orbiting in 103 minutes, or roughly 14 times a day, these satellites would cover the entire globe every 18 days, viewing the earth at the same local time on each pass (about 9:30 am at the Equator). Each image scene from the data returned covers an area about 115 miles on a side. Landsat 4, launched July 16, 1982, orbits at an altitude of 438 miles. Consequently, it covers the earth in 233 passes rather than the 251 made by the first three Landsats and has to be keyed to a different Worldwide Reference System. Landsat 1 operated until January, 1978; Landsat 2 was launched in January, 1975, and removed from operational service in February, 1982. Landsat 3 was launched in March, 1978, and is expected to be decommissioned in March, 1983.

Landsat images are only part of the worldwide coverage available from the EROS Data Center. The world's first truly spectacular photography from Space was done by Gemini III. There are hundreds of photographs from the Geminis, the Apollos, and Skylab. Although Skylab traveled in orbits only 270 miles above the earth, its photography was aimed at scattered test sites selected to support earth resource experiments. The Landsats are the only ones to give systematic and repeated coverage of the entire globe.

Among the most interesting color photographs available from the EROS Data Center are of the major metropolitan areas, including Lincoln, Nebraska. These were taken by aircraft flying from 2,000 to 60,000 feet altitude. The photographs from aircraft are not limited to cities. Most LGMC members have a copy of the map of Nebraska on which every irrigation pivot circle is clearly (and sometimes painfully) evident.

- continued

EROS - continued

Images or photographs of any area can be ordered from the EROS Data Center, but the specifications for the area must be exact. The customer can select from a set of 470 scenes which cover the entire United States, or from a selected list of metropolitan areas. If none of these is exactly what is wanted, an image can be designated by giving the latitude and longitude of the four corners of the area. However, if the image of this particular area has not yet been developed, the cost is much greater. Slides and film are also available and, for a fee, the customer can specify the maximum amount of cloud cover that would be acceptable, or request an image from an orbital pass yet to be flown.

Anyone wishing information should write:

EROS Data Center
U.S. Geological Survey
Sioux Falls, South Dakota 57109

The lobby at the center is open 8:00 to 4:15, closed on holidays and weekends, with tours on weekdays at 10:30 a.m. and 2:00 p.m.

- Submitted by Florence Boring

* * * * *

Sagenitic Agates

The term sagenite is often used to refer to acicular or needle like crystals that occur as inclusions in agate, and less frequently in quartz or other transparent or translucent minerals. There is no such mineral as sagenite. The minerals aragonite, calcite, epidote, rutile, and a host of others may make up the material called sagenite. It is most proper to refer to agates as sagenitic rather than sagenite in agate.

Sagenitic inclusions may appear as beautiful radially arranged clusters of crystals, or as irregularly arranged acicular or needle-like inclusions. The finest sagenitic inclusions will usually contrast sharply with the host rock color, and will be sufficiently dense to stand out clearly, but not so dense as to appear as just a dark spot in the rock.

Fine examples of sagenitic agate have been collected from the bean fields in the Nipomo, California, area. If any agate could be called the holotype of North American sagenitic agate, the "bean field" agates should so be called. Such agates were commonly seen at shows throughout most of the 1950's, but most of the bean fields that produced these agates have since been converted to fruit orchards or have been placed under parking lots, buildings, homes, and other developments. These agates were called "bean field" agates because they were collected from bean fields after the harvests and immediately after they were plowed.

Some superb sagenitic agates have been found at what is called "Sagenite Hill" on the Oregon-Idaho border, near Nyssa. These were collected even during the early 1930's, and such agates are still sometimes seen for sale at shows. I found a few specimens at the recent Kansas City show. The sagenitic inclusions in these agates contrasts sharply with the host rock, and it is usually a black or a white color. Some of the black crystals have sunburst-like ends that produce a bouquet effect.

With the coming of brightly colored agates from northern Mexico in the late 1940's and 1950's, a strange phenomenon happened. The cutters simply threw out the sagenitic Mexican agates, although they held onto other sagenitic agates. The colors of the Mexican agates simply overshadowed the fine sagenitic inclusions in this case. Some of the worlds finest sagenitic agates are in garbage dumps now.

Rough sagenitic agates can often be recognized by an outer scar that has a radial symmetry. Such scars do not mean that the agate will always be sagenitic, but they are good indicators. I often polish only this scar to develop the sagenitic features.

Since there will be no regular March meeting, let's try to either display some sagenitic agates at the show or at the April meeting. Cases will be furnished for the latter.

Roger Pabian
Education Chairman

CHRISTMAS PARTY 1983

Our annual Christmas Party was held on December 10, 1983, at the Nebraska Center.

Marie Taylor was in charge of the arrangements and did an excellent job. She and her daughter, Susan, made a tree ornament for each one in attendance. These were placed by each nut cup, which had been filled with "sweet goodies". Six candles were arranged on the tables and at the close of the evening the individuals whose nut cup had a little marker on the bottom received one of these candles. There were indeed six lucky people.

The tables were arranged in a "U" formation so it was easy for anyone to view the entire group.

The evening was begun by everyone enjoying a delicious meal served by the Center.

The President then presented his slate of outgoing 1983 officers and the new 1984 officers.

The "Rockhound of the Year" award was presented to Roger Pabian by the President, Jim Taylor.

Then, much to his surprise, the President himself also received a plaque, presented by First Vice President Glenn Lyman, for his outstanding service to the Club during the past year as President.

Jim Landon then presented an excellent program on the "Identification of Petrified Woods". It was very interesting, informative and well presented.

The evening closed with a gift exchange for those who wished to participate.

This was indeed a joyous climax to another good year for the Lincoln Gem & Mineral Club.

Respectfully submitted,

Vera Lyman, '84 Secretary

The
LINCOLN



GEM & MINERAL CLUB, Inc.

invites you to attend its

25th Annual Gem & Mineral Show

held in conjunction with

the Nebraska State Gem & Mineral Show

March 26–27, 1983

Agricultural Hall

Nebraska State Fairgrounds

Gem, Mineral, Jewelry & Fossil Displays

Prizes, Demonstrations, Programs

Gems—Minerals—Fossils—Jewelry & Lapidary Supplies

For Sale from the following Dealers:

Phil & Joni Andrist	JJ&L Rocks & Minerals
Russell's Rock Shop	Lentz Lapidary
Dick's Rock Museum	San Juan Gems
Everett Lapidary	Gem-Tec Diamond Tool Co.
Flying Pan Minerals	Richter Rock Shop
Geodon Agates	Wicks Lapidary
Interstate Lapidary	

Show Hours:

Saturday, March 26—9:00 am to 9:00 pm

Sunday, March 27—9:00 am to 5:00 pm

Admission: Adults—\$1.00

Children—.50, Under 6, FREE with an Adult

Gem and Mineral Show next weekend

Fossils, jewelry, agates on display

Displays of agates, finished jewelry, fossils and more will draw rockhounds from the northern Great Plains to Lincoln on Saturday and next Sunday for the 25th annual Gem and Mineral Show sponsored by the Lincoln Gem and Mineral Club.

The show will be held in the Agricultural Hall at the Nebraska State Fairgrounds. Hours are 9 a.m. to 9 p.m. Saturday and 9 a.m. to 5 p.m. Sunday. Admission is \$1 for adults and 50 cents for children under 12.

The show will feature displays from members of Nebraska's 20 gem and mineral societies.

Most participating dealers also will present displays. San Juan Gems of Cortez, Colo., will furnish a display of eggs made from agatized dinosaur bone, and Dick's Rock Museum of Estes Park, Colo., will display del Norte Plume agate from Colorado. Neither have been shown before in the Lincoln area.

Gem-Tec Diamond Tool Co. of Buena Park, Calif., will

display Australian Opal. Phil and Joni Andrist of Bandon, Ore., will show Laguna agate from Mexico.

Many exhibitors will feature Nebraska materials, and Roger Pabian of Lincoln will show specimens illustrated in his book, "Minerals and Gemstones of Nebraska." Pabian, a research geologist with the Conservation and Survey Division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln, also will give an illustrated lecture on Nebraska gemstones at 3:30 p.m. Saturday.

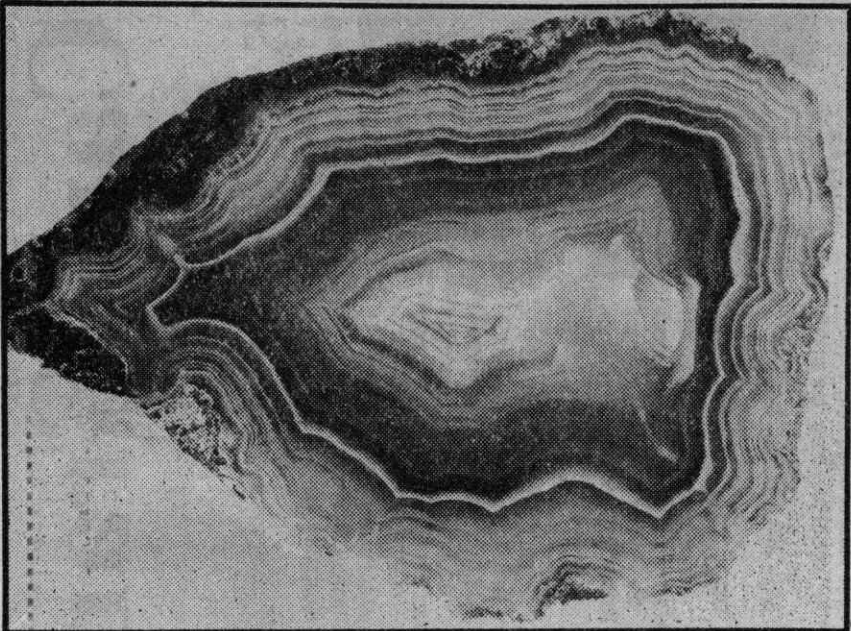
Professor Lloyd Tanner of the University of Nebraska State Museum will give an illustrated program at 1:30 p.m. Saturday and 1:30 p.m. Sunday on his recent fossil collecting expeditions to the Fayum area of Egypt.

Nine working demonstrators will show their skills. Among crafts to be demonstrated will be sphere and marble making; scrimshaw, making fine detailed etchings on ivory; making gemstone pictures, rock novelties and paintings on rocks; silversmithing; and gem cutting.

Twelve retail dealers from Oregon, Minnesota, Colorado, Illinois, Kansas and Nebraska will offer gem and lapidary supplies, such as rough and finished stones, finished jewelry, agates, jade, mineral specimens, findings, mountings, metals and shop equipment.

A contest featuring "Nebraska's Best Specimens" will be open to members of any Nebraska gem and mineral club, and each contestant may enter as many as three stones, fossils, minerals or other gem-related items. Visitors can vote Saturday for "Nebraska's Finest." The winner will be announced at an awards breakfast 8 a.m. Sunday morning.

Lancaster County Civil Defense will discuss tornado preparedness at 10 a.m. Saturday and the Nebraska Game and Parks Commission will have a presentation on Nebraska parks at 11 a.m. Saturday.



Gem and mineral specimens such as this Laguna agate from Mexico, a prized item among collectors, will be displayed at the Nebraska State Gem Show.

132 Hobbies Stamps Coins

Beer can collection 75¢ a can, for information call 477-3849. Please leave number.

BUY — SELL
Gold Silver coins
AMERICAN 2208 "O" 474-7575
Get all your jewelry making needs, finished gems, agates, lodes, apals, rough stones, crystals, fossils, & minerals at Nebraska State Gem Show, Ag. Hall, Fairgrounds, March 26/9-9; March 27, 9-5

Tri Chem/Artex craft company has a new glass stain paint. Instructors & hostesses needed. Call Patty 464-8438

Wanted Star Wars cards any series. Will pay 25¢ a card. Call 464-0388 ask for Jeff
We buy rings, diamonds, coins, gold, sterling. Elder's, 474-4044

NEBRASKA ROCKHOUND WEEK

On Monday, March 7, 1983, at 11:45 A.M., Nebraska Governor Robert Kerry proclaimed the week of March 21st through the 27th, 1983, as: NEBRASKA ROCKHOUND WEEK.

Those in attendance from our Club were: President Jim Taylor, Roger Pabian, Gail Scott, Ray Lambert, Phyllis and Linda Parks.

A copy of the Proclamation follows this page.

Volume 23 Issue 7 THE PICK & SHOVEL March 1983 Page 3

The LINCOLN GEM & MINERAL CLUB, Inc.
invites you to attend its
25th Annual Gem & Mineral Show
March 26-27, 1983
Agricultural Hall
Nebraska State Fairgrounds
Gem, Mineral, Jewelry & Fossil Displays.
Prizes, Demonstrations, Programs
Show Hours:
Saturday, March 26 — 9:00am to 9:00pm
Sunday, March 27 — 9:00am to 5:00pm
Admission:
Adults — \$1.00
Children — 50¢, under 6 FREE with one adult

*Pictures of
Ray Lambert and
Howard Taylor Jr, with
Gov. Robert Kerry*

STATE OF NEBRASKA



Proclamation

WHEREAS THE HOBBY OF ROCKHOUDING IS POPULAR FAMILY ACTIVITY IN THE STATE OF NEBRASKA; AND A CONSTRUCTIVE ACTIVITY FOR THE CITIZENS OF THE STATE OF NEBRASKA; AND

WHEREAS THE ROCKHOUND FRATERNITY OF THE STATE OF NEBRASKA HAS PROVIDED EDUCATIONAL MATERIALS FOR NEBRASKA'S LIBRARIES AND SCHOOLS; AND HAS PROVIDED SCHOLARSHIPS TO THE UNIVERSITY OF NEBRASKA; AND HAS PROVIDED GEM, MINERAL, AND FOSSIL SPECIMENS TO THE UNIVERSITY OF NEBRASKA; AND

WHEREAS THE NEBRASKA ASSOCIATION OF EARTH SCIENCE CLUBS IS A NON-PROFIT EDUCATIONAL ORGANIZATION WHICH PROMOTES INTEREST AND EDUCATION IN GEOLOGY, MINERALOGY, PALEONTOLOGY, ARCHEOLOGY AND LAPIDARY; AND SPONSORS AND PROVIDES MEANS OF COORDINATING THE WORK AND EFFORTS OF GROUPS INTERESTED IN THESE FIELDS; AND

WHEREAS THE ASSOCIATION IS MADE UP OF 20 LOCAL CLUBS WITH APPROXIMATELY 800 MEMBERS IN 20 NEBRASKA CITIES, INCLUDING THE LINCOLN GEM AND MINERAL CLUB, THE 1983 NEBRASKA STATE GEM AND MINERAL SHOW SPONSOR; AND

WHEREAS THE 1983 NEBRASKA STATE GEM AND MINERAL SHOW WILL BE HELD AT THE NEBRASKA STATE FAIRGROUNDS IN LINCOLN ON MARCH 26 - 27, 1983;

NOW, THEREFORE, I, ROBERT KERREY, GOVERNOR OF THE STATE OF NEBRASKA, DO HEREBY PROCLAIM THE WEEK OF MARCH 21ST THROUGH THE 27TH, 1983, AS:

NEBRASKA ROCKHOUND WEEK

IN NEBRASKA AND URGE ALL CITIZENS OF THE STATE TO JOIN ME IN WELCOMING OUR ROCKHOUND GUESTS TO OUR STATE.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Great Seal of the State of Nebraska to be affixed this 7th day of March in the year of our Lord one thousand nine hundred and



Attest:

Allen J. Beermann
Secretary of State

Robert Kerrey
Governor

Lincoln Gem and Mineral Club, Inc.

P. O. Box 5342

Lincoln, Nebraska 68505

PRESS RELEASE

March 8, 1983



NEBRASKA STATE GEM AND MINERAL SHOW AT FAIRGROUNDS, MARCH 26 and 27.

Rockhounds from the northern Great Plains states will be converging on Lincoln March 26 and 27 for the 25th annual Gem and Mineral Show sponsored by the Lincoln Gem and Mineral Club. To boost the silver anniversary event, the Nebraska Association of Earth Science Clubs awarded the Lincoln club its bid for the Nebraska State Show. In a March 7 signing ceremony, Governor Bob Kerrey proclaimed the week of March 21 thru March 27 as "Nebraska State Rockhound Week." The Show will be held in the Agricultural Hall at the State Fairgrounds in Lincoln and show hours are from 9 to 9 on Saturday and 9 to 5 on Sunday. Admission is \$1.00 for adults and 50 cents for children under 12.

The show will feature individual displays from members of Nebraska's 20 gem and mineral societies. These displays will include agates, finished jewelry, fossils, minerals, cut stones, artifacts and other items of interest. Some 800 Nebraska families participate in the rock collecting hobby in one way or another and there are over 5,000 rockhounds in the state. Show chairman, John Abel has indicated that individual exhibits will be ^{ONE OF} the highlights of the show.

There will be some superb displays at the show. In addition to the individual displays, most of the participating dealers will show some pretty spectacular items. San Juan Gems of Cortez, Colorado, will furnish a display of eggs made from agatized dinosaur bone, and Dick's Rock Museum of Estes Park, will provide displays of del Norte Plume agate from Colorado. Neither of the above displays have ever been shown in the Lincoln area. Gem-Tec Diamond Tool Company of Buena Park, California will provide an outstanding display of Australian Opal and Phil and Joni Andrist of Bandon, Oregon, will show Laguna Agate from Mexico.

Many exhibitors will feature Nebraska materials and Roger Pabian of Lincoln will show many of the specimens that were illustrated in his book, "Minerals and Gemstones of Nebraska." Pabian, a research geologist with the Conservation and Survey Division, IANR, University of Nebraska-Lincoln, will also give an illustrated lecture on Nebraska's Gemstones.

Professor Lloyd Tanner of the University of Nebraska State Museum will give an illustrated program on his recent fossil collecting expeditions to the Fayum area of Egypt. Tanner has made several trips to this region, and the expeditions have yielded some highly significant fossils.

Nine working demonstrators will be showing their skills at the Lincoln show. Stan Shurtleff of Humboldt, Nebraska, will demonstrate sphere and marble making. He has been a very popular attraction at many past shows. Jay Tschetter of Lincoln will demonstrate scrimshaw, the art of making very fine, detailed etchings on ivory. Tschetter uses only fossil ivory in his craft, and is one of the most skilled scrimshanters in the United States.

Bev Carroll of Fort Dodge, Iowa, will demonstrate her craft of making gemstone pictures and trees, and Martha Thorpe of St. Joseph, Missouri will demonstrate the production of various rock novelties. Art Henry of Plattsmouth will do paintings on rocks, and Clifford Eickhoff of Tilden will make ceramic beads and gemstone wind chimes.

Connie and Mary McCartney of Grand Island will demonstrate steam casting of silver and other metals, and metal craft demonstrations will be rounded out by Erma Pharoah of Springfield, Nebraska, who will demonstrate silversmithing.

Roger Pabian of Lincoln will demonstrate drilling of gemstones and making small carvings from rock, and there will be rock and gem cutting displays and demonstrations put on by various members of Lincoln Gem and Mineral Club.

Dealer chairman, Howard Taylor, Jr., reports that there will be twelve retail dealers from six states including Oregon, Minnesota, Colorado, Illinois, Kansas, and Nebraska, who will will have complete lines of gem and lapidary enthusiasts supplies, such as rough, finished stones, finished jewelry, agates, jade, mineral specimens, findings, mountings, metals and shop equipment.

A special contest featuring "Nebraska's Best Specimens" will be taking place at the show. The contest is opened to members of any Nebraska gem and mineral club, and each contestant may enter up to three stones, fossils, minerals, or other gem related item. Saturday's show visitors will have a chance to cast their vote for "Nebraska's Finest." The winner will be announced at the awards' breakfast on Sunday morning.

March 1983

LAPIDARY JOURNAL

NEBRASKA'S BEST TO HIGHLIGHT '83 SHOW

A contest to find Nebraska's best gem, mineral, or fossil specimen will be one of the events to highlight the 1983 Nebraska State Gem and Mineral Show to be hosted by the Lincoln Gem and Mineral Club on Saturday and Sunday, March 26 and 27, in the Agricultural Hall at the State Fairgrounds, 17th and Military Avenue, Lincoln. Show chairman, John Abel, has indicated that the contest will be open to any Nebraska rockhound who is a member of a Nebraska club or any non-Nebraska rockhound who is a member of any club affiliated with any of the six regional federations. Each contestant may enter up to three specimens, such as agates, crystals, cabochons, faceted gems, fossils, etc. Entry forms for the "Best Nebraska Specimen" contest can be obtained by writing Lincoln Gem and Mineral Club, Box 5342, Lincoln, Nebraska 68505. The winning specimen will receive an attractive trophy.

Programs will include an illustrated lecture, "Nebraska Gemstones," by Roger Pabian, Conservation and Survey Division, University of Nebraska,

Lincoln. The program documents classic occurrences as well as recent discoveries of Nebraska gem material.

In addition to being the 1983 State Show, the show will be the Silver Anniversary Show hosted by the Lincoln Gem and Mineral Club. Commemorative patches and pins have been made to celebrate the event.

Twelve retail dealers representing seven states will be at the show. Their wares will include finished jewelry, rough, slabs, minerals, fossils, equipment, findings, books, and other items of interest to the rock hobbyist. Two wholesale dealers will be present to fill the needs of retail dealers at the show as well as visiting retailers wishing to replenish their stock.

Special displays will include dinosaur bone furnished by San Juan Gems of Cortez, Colorado, and Colorado plume agate furnished by Dick's Rock Museum of Estes Park, Colorado. Many fine displays will also be furnished by members of most of Nebraska's clubs.

Camping facilities will be available at the show site, and food service will be available in the building. For further information contact the club at the above address. ⊕

THE ANNUAL ROCK SWAP
THE ANNUAL GEM AND MINERAL SHOW
CHET AGER NATURE CENTER, LINCOLN, NEBRASKA
JOHN. G. NEIHARDT CULTURAL CENTER, BANCROFT, NEBRASKA

Items from the Lincoln, Nebraska, Journal, Star, and Sun Newspapers

The Lincoln GEM AND MINERAL CLUB will sponsor the fifth annual mid-winter rock swap beginning at noon on Saturday, Jan. 22, at the Nebraska Center for Continuing Education, 33rd and Holdrege.

Gemstone enthusiasts will be able to trade materials during the swap which will continue until 7 p.m.

Jan. 19, 1983

Rock swap is Saturday

The Lincoln Gem and Mineral Club will sponsor the 5th annual mid-winter rock swap beginning at noon on Saturday (Jan. 22) at the Nebraska Center for Continuing Education, 33rd and Holdrege. Gemstone enthusiasts will be able to trade materials during the swap which will continue until 7 p.m. and will be followed by the club's regular meeting at 7:30 p.m.

The evening program will be a slide presentation, "How to Carve a Jade Bowl." The slide show was prepared by Warren and Charlotte Hatch of the Huron Hills Gem and Mineral Society of Belleville, Mich., and made available by the Midwest Federation slide program library.

Gem features for the month will be jade and gems of South Dakota. Display cases will be furnished for exhibits. Visitors are welcome.

Jan. 21, 1983

Gem, mineral show scheduled

BANCROFT — The John G. Neihardt Center, Nebraska State Historical Society branch museum, will sponsor a free gem and mineral show Oct. 9-30. The Lincoln Gem and Mineral Club and local collectors will show exhibits.

The center's hours are 8 a.m. to 5 p.m., Monday-Saturday, 1:30-5 p.m. Sunday.

Oct. 3, 1983

Playbill

Saturday

Ballet: "The Unicorn, the Gorgon and the Manitore" — NWU O'Donnell Aud., 51st & Huntington, 8 p.m.* (also next Sun. 6 p.m.)

Gem and Mineral Show — sponsored by Lincoln Gem and Mineral Club, Agricultural Hall, fairgrounds, 9 a.m.-9 p.m.* (also next Sun. 9 a.m.-5 p.m.)

Nebraska Body Building Championships — Pershing Aud., 7:30 p.m.*

St. David's Welsh Society Celebration — Villager Convention Center, 5200 O, 10 a.m.-4 p.m.*

Hyde Observatory — South road in Holmes Park, 70th & Van Dorn, 7-10 p.m. For special presentations call 471-7847.

March 20, 1983

A gem and mineral exhibit, co-sponsored by the Lincoln Gem and Mineral Club and

Lincoln Parks and Recreation Department, will be held on Saturday, July 30 from 9 a.m. to 7 p.m. at the Chet Ager Nature Center in Pioneers Park. There will be a gem cutting and polishing demonstration throughout the day. The program is free to the public.

The following films will be shown during the exhibit: "Gems of the Americas" at 10 a.m. and 3 p.m.; "Limestone" at 10:45 a.m. and 4 p.m.; "Ground Water" at 11:30 a.m. and 5 p.m.; "Quartz Family Gems" at 1:30 p.m. Call 471-7895 for any further information.

July 27, 1983



Staff photo by John Zoz

Ancient his-tree

A UNL maintenance crew and members of the Lincoln Gem and Mineral Club delivered an unusual gift to the Morrill Hall lawn Thursday morning. The gift was a 13 million-year-old fossilized tree stump that weights an estimated half ton. Michael Voorhies, curator of paleontology at Morrill Hall, said the stump was donated by retired Antelope County farmer Don McBride, who found the fossil in a steambank near his home. The stump, which will be on permanent display outside Morrill Hall, is thought to be that of a live oak, Voorhies said. He said the tree is a subtropical species that grew in Nebraska during prehistoric times.

SERVICES TO OTHER CLUBS

Lincoln Gem and Mineral Club members attend and display at the meetings and shows of other clubs whenever possible.
Announcements of the shows and swaps, whenever known, are carried on the program page of the Pick & Shovel.
Lincoln Gem and Mineral Club members provide programs for other clubs when requested.
Flyers and discount tickets are made available to LGMC members at meetings as provided by other clubs.

'The Pick & Shovel, April, 1983

NAOESCI Meeting - March 27, 1983, 1:30 P.M.
Delegate's Report

The scheduled Annual meeting of the Nebraska Association of Earth Science Clubs, Inc. was called to order by President Jim Harrison. After roll call it was determined that only 10 Clubs were represented. (This was more than likely due to our weather.) Since a quorum was not present and business could not be conducted, the meeting was adjourned.

After a discussion between those delegates present, a tentative date and location was made for rescheduling the 1983 Delegates Meeting. A possible site for the meeting will be Cottonmill Park, location of the Kearney Swap; one week after Labor Day, September 11, 1983, 1:30 P.M.

Be sure to read the Gem Palette for a definite date and location.

Delegate Glenn K. Lyman

The Omaha Show which was held over Labor Day weekend, was also attended by the Taylors, Roger Pabian, Claude & Gail Scott, and Ray Lambert. The Everetts and JJ&L were dealers at this show.

Myrtle and J.D. Young and Florence Boring attended the Sioux City Gem and Mineral Club Show in South Sioux City, Nebraska, October 1-2, 1983. Florence Boring also attended the 1983 California Federation Show in San Jose, California, June 17-19, hosted by the Santa Clara Valley Gem and Mineral Society.

Siouxland Gem & Mineral
presents

18th ANNUAL RAINBOW OF GEMS

OCTOBER 1 & 2, 1983

Sat 9:00 a.m. - 9:00 p.m.

Sun. 10:00 a.m. - 5:00 p.m.

Marina Inn

4th & B St.

South Sioux City, Ne.

Working Dealers With Displays

Wire Work With Rocks

Silversmithing

Gold Casting

Faceting

Exhibits

Geode Bust

Silent Auction

Admission - Adults - \$1.00 Senior Citizens - 50¢
Children under 12 Free with parents



ROCKY SAYS, "REMEMBER THE PLACE TO BE IN '83 IS KALAMAZOO, MICHIGAN"



There are many exciting things planned for the MWF Convention this summer, including two special awards.

The first will be a donation to the AFMS Scholarship Fund in the name of the club which brings the most displays to the show. Many clubs work hard to increase their donation percentage, so this could be a fun thing.

The second will be an award for the most original, unusual or beautiful or whatever, item made from Petoskey stone. There will be a category for both individual and club creations. This could be a great project for you. Get out those hexacorals and put on your creative caps.

Shirley Carroll, MWF Show Publicity Chairperson

* * * * *

FEDERATION SHOWS:

June 10 thru 12, Oklahoma City, OK
ROCKY MOUNTAIN

June 17 thru 19, San Jose, CA
CALIFORNIA

July 8 thru 10, Charleston, WV
EASTERN

July 14 thru 17, Kalamazoo, MI
MIDWEST

August 4 thru 7, Spokane, WA
AMERICAN/NORTHWEST

November 11 thru 13, Dallas, TX
SOUTH CENTRAL

* * * * *

Midwest Federations NEWSLETTER



Published monthly except July and August as a service to member clubs. All news and articles should be sent to the Editor, Mrs. Bette Smith, 10607 Mary Ann, Zeeland, MI 49464. All subscription orders should be sent to Parrot Printing Service, 2125 Forest Avenue, Des Moines, IA 50311.

PRESIDENT
MRS. DIANE DARE
747 E. Blackford Ave
Evansville, IN 47713

1st VICE PRESIDENT
REX WEBB
2600 W. 87 1/2 St.
Bloomington, MN 55431

2nd VICE PRESIDENT
JAMES EDWARDS
306 Somanauk
Park Forest, IL 60466

SECRETARY
MISS JEAN REYNOLDS
107 Tuttle Ave.
Clarendon Hills, IL 60514

TREASURER
WILLIAM PARCH
P.O. Box 180
Fountain City, WI 54629

OCTOBER 1983 - Issue No. 236

MIDWEST FEDERATION 1983 BULLETIN EDITORS CONTEST AWARD WINNERS

Rita Hagerbaumer

MINI BULLETIN CONTEST -

- 1st - THE KENTUCKY AGATE - Miles M. Smith, Editor. Capital Gem & Min. Club, Frankfort, KY.
2d - MASTODON TRACKS - Gertrude Larson, Editor. Badlands Sandhills Earth Science Club, Mission, SD

SMALL BULLETIN CONTEST -

- 1st - FLINT FLASHES - Helen L. Smith, Editor. Licking County Rock & Min. Soc., Inc., Newark, OH
2d - THE PROSPECTOR - Alice Mundt, Editor. Muskegon Rock & Min. Assoc., Muskegon, MI
3d - KORN KRIB NEWS - Mrs. Ralph Helle, Editor. Corn Palace Rock Club, Mitchell, SD

CERTIFICATES -

- 4th - THE SHIELD - Joseph R. Ohm, Editor. Akron Mineral Society, Cuyahoga Falls, OH
5th - THE GEMROCK - Betty White, Editor. Independence Gem & Min. Soc., Independence, MO
6th - SMOKE SIGNALS - Delores Bates, Editor. Blackhawk Gem & Min. Club, East Moline, IL
7th - 3M PROSPECTORS CLUB NEWSLETTER - Aleene Wistrom, Editor. 3M Prospectors Club, St. Paul, MN
8th - CHIP & LICK - Mrs. Anne Yokell, Editor. Miami Valley Min. & Gem Club, Fairborn, OH
9th - THE GLACIAL DRIFTER - Ruth Beauvais, Editor. Grand Rapids Min. Soc., Grandville, MI
10th - GRAVEL - LeNore Forbes, Editor. North Iowa Rock Club, Nora Springs, IA

LARGE BULLETIN CONTEST -

- 1st - THE TULIP CITY CONGLOMERATE - Julia Donker, Editor. Tulip City Gem & Min. Club of Holland, MI
1st - ARROWHEAD NEWS - Leon & Naida House, Editors. Indian Mounds Rock & Min. Club, Wyoming, MI
2d - THE ESCOMO - Shirley M. Uebel, Editor. Earth Sci. Club of Missouri, St. Louis, MO
3d - THE ROCK RAMMER - Mildred Heckert, Editor. Elgin Rock & Min. Soc., Elgin, IL

CERTIFICATES -

- 4th - ROCK RUSTLER'S NEWS - Susan Prust, Editor. Minnesota Min. Club, Inc., Shoreview, MN
4th - THE PYRITER - Lyle Voas, Editor. Dallas County Rock Club, Inc., Minburn, IA
5th - ACHATES - Mary Stark, Editor. Austin Gem & Min. Club, Inc., MN
5th - THE BEACHCOMBER - Gloria Suess, Editor. Lake County Gem & Min. Soc., Waukegan, IL
6th - ROCK TALK - Tania Diedrichs, Editor. Black Hawk Gem & Min. Soc., Cedar Falls, IA
7th - PEBBLE PUSHER - Ruth Harvey, Editor. Coulee Rock Club, Inc., Winona, MN
8th - THE ROCK TABLET - Carol Anderson, Editor. Neville Public Museum Geolog. Club, Green Bay, WI
9th - PERU ROCKS & MINERALS NEWSLETTER - Charles J. Walker, Editor. Peru Rocks & Min. Club, IN
10th - SANDSCRIPT - Lottie Baumgartner, Editor. Duneland Rock Club, IN

EXTRA LARGE BULLETIN CONTEST -

- 1st - THE PICK & SHOVEL - Vera Lyman, Editor. Lincoln Gem & Min. Club, Lincoln, NE
2d - SERENDIPITY GEMS - Luella Bond, Editor. Evansville Lapidary Society, Evansville, IN
3d - THE OPAL - Lois McMahon, Editor. West Suburban Lapidary Club, Elmhurst, IL
JUDGES AWARD - GEM CITY ROCK NEWS - Rita C. Hagerbaumer, Editor. Gem City Rock Club, Quincy, IL

CERTIFICATES -

- 4th - THE TULLY - Betty Van Erden, Editor. Park Forest Earth Sci. Club, IL
5th - THE LITHNICS - Evelyn Rohn, Editor. Richland Lithic & Lap. Soc., Mansfield, OH
6th - ESCONI - Jean Reynolds, Editor. Earth Sci. Club of Northern IL, Clarendon Hills, IL
6th - OZARK EARTH SCIENCE NEWS - Jean Zahnen, Editor. OZARK Earth Sci. Club, Inc., Mountain Home, AR
6th - THE TRILOBITE - Margaret Pearson, Editor. Wisconsin Geol. Soc., Milwaukee, WI
7th - CRYSTAL CLUSTER - Mary Ann Gaydos, Editor. Des Plaines Calley Geolog. Soc., IL

PRESIDENT'S MESSAGE - DIANE

A year ago I dared you to take a more active part in your club and your Federation. It has been an exciting year for me, as you accepted that dare and kept me busy! I hope it has been as exciting and as rewarding for every one of you. But don't quit now; continue to Discover, Appreciate, Recognize and Experience the many areas of this great hobby in the years to come.

I want to thank all of you for the help, cooperation and encouragement you have given me. YOU are what make our organization successful; as President I simply take credit for YOUR efforts, on behalf of the Midwest Federation. I am very grateful to you all.

Your new officers stand ready to serve, as they have in the past. Please give them the same kind of help you gave me, and now a final quote -- from a song, the theme of my "first love" -- "Happy trails to you, til we meet again!"

thanks

From the Pick & Shovel, October 1983:

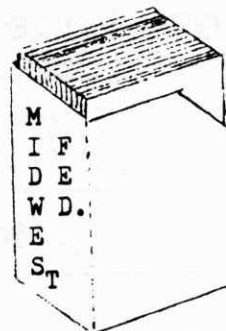
A word of thanks to Vera Lyman for her excellent work on the Pick & Shovel. The first place award given the Pick & Shovel at the AFMS Show and Convention reflect the quality of Vera's work. The Pick & Shovel received the 7th place award at the AFMS Show and Convention.

(From the Minutes of the Board of Directors meeting, September 8, 1983)

10th - THE QUARRY - Rose Ann Fox, Editor. Cincinnati Min. Society, Cincinnati, OH

the committees and officers by the Secretary.

Continued...next page



Detergent Box

SAFE PLACE to keep your bulletins (or magazines) for future reference. Cut the top off a detergent box with a razor blade or some sharp instrument. Then cut the corners off at a 45 degree angle so the dates will show. Spray paint or cover with pretty paper. Print on the back the name of your bulletin and the year. Set on book shelf or wherever you wish.

..from The Glory Hole ..via
Scribe

Introducing . . .

NEW COMMITTEE

In 1985 the MWF will celebrate its 45th birthday. A committee has been appointed to prepare a complete history of the Federation for this occasion. We would appreciate any information from anyone that relates to the MWF -- early conventions, meetings, shows, committees and who served on them, etc. We want to compile a detailed record of our organization. Please send to Diane Dare (Chairman), Jean Reynolds or June Zeitner. THANKS!!

NEW APPOINTEES: Directory Chairperson: Mrs. Pauline Richardson, 1066 Island Lake Ave., St. Paul, MN 55112

AFMS Uniform Rules Committee: Mrs. Kathleen Meyers, 11630 South Gera Rd., Birch Run, MI 48415

Archives Chairperson & Historian: Betty Meyers, 455 Tomahawk St., Park Forest, IL 60466 Assistant and please send bulletins to: Sheryl Camperona, 2330 Collins St., Blue Island, IL 60406
Rex Webb, President Elect

SPECIAL PUBLICATIONS -

- 1st - THEY PAINTED THE DINOSAURS - Allen Debus, Author. Des Plaines Valley Geolog. Soc., IL
- 2d - DUNELAND ROCK CLUB, INC. - Cathy McFadden, Author. Duneland Rock Club, Inc., IN
- 3d - NEVILLE PUBLIC MUSEUM GEOLOGY CLUB 20th ANNIVERSARY EDITION - Carol Anderson, Author. Green Bay, WI

CERTIFICATES -

- 4th - ELGIN ROCK & MINERAL SOCIETY, ELGIN, IL 20th ANNIVERSARY - Compiled by Mildred E. Heckert, (History 1962 - 1982)
- 5th - THOMSONITE, a most rare gem - R. C. Baumgartner, Author. Duneland Rock Club, Inc.
- 6th - REFLECTIONS OF A ROCKHOUND - Cathy McFadden, Author. Duneland Rock Club, Inc.

ORIGINAL ARTICLE CONTEST - ADULT -

- 1st - THE UNLIKELY BUT AMAZING "FLYING LIZARD" - Carl E. Wehr, Author. Published 12/82 in The Tully, Park Forest Earth Science Club, IL
- 2d - MINERAL NAMES - Jean Reynolds, Author. Published 10/82 in ESCONT. Earth Science Club of Northern Illinois
- 3d - OLIVENITE w/ CUPTOADAMITE - Bob Beauvais, Author. Published 11/82 in the Arrowhead News, Indian Mounds Rock & Mineral Club, Wyoming, MI

CERTIFICATES -

- 4th - DON'T PUT IT OFF! - Bob Johnson, Author. Published 3/82 in Serendipity Gems, Evansville Lapidary Society, Evansville, IN
- 5th - RECORD YOUR FINDS - Ralph Young, Author. Published 9/82 in the Rockfinder, Michiana Rock & Gem Club, IN
- 6th - PALEONTOLOGICAL CLOCKS - Ralph Winnis, Jr., Author. Published 2/82 in the Crystal Cluster. Des Plaines Valley Geological Society, IL
- 6th - HOT BLOODED DINOSAURS REVISITED - Allen Debus, Author. Published 2/82 in ESCONT. Earth Science Club of Northern Illinois.
- 7th - HOW TO SELECT AND CUT AN OPAL - Mrs. Terry Licko, Author. Published 2/82 in the OPAL. West Suburban Lapidary Club, IL
- 8th - SAGA OF THE SIXTEEN - Diane Dare, Author. Published 9/82 in the Sandscript. Duneland Rock Club, IN
- 8th - INDIANA MINERALS, FOSSILS, ROCKS & FUELS - Glenn Grant, March 1982 Serendipity Gems, Evansville Lapidary Society, IN

ORIGINAL ARTICLE CONTEST - JUNIOR -

- 1st - MICHIGAN COPPER AND COPPER HISTORY - Rand Donker, age 13, Author. Published 3/82 in The Tulip City Conglomerate. Tulip City Gem & Mineral Club of Holland, MI
- 2d - ORIGINS OF JEWELRY - Joey Boehning, age 12, Author. Published 11/82 in The Tully. Park Forest Earth Science Club, IL
- 3d - BORN TO BE A ROCKHOUND - Judy Stark, age 17, Author. Published 9/82 in the Achates. Austin Gem & Mineral Society, Austin, MN

COLLECTING ON PUBLIC LANDS

BY June Zeitner

A new bill will help save our rights of collecting on public lands and give our hobby new strength. This bill, S1569, was written by professional paleontologists who were just as appalled as we all were last fall by the proposed BLM regulations about collecting fossils, rocks, and minerals on public lands. There has never been any Congressional action about such collecting, so all regulations have been roughly based on the long outdated Antiquities Law of 1906, which was about Archeology.

If it is passed, this law will guarantee our rights of collecting non-vertebrate fossils and non-fossil geological material, such as rocks and minerals, on public lands without permits or fees, and without fear of penalties. In addition, the bill spells out how we may even collect vertebrate fossils legally for the first time ever.

Carefully written by members of the Society of Vertebrate Paleontology, with the help of the Paleontological Society, the American Association of Paleontological Suppliers, and amateurs of long experience, this legislation will help science and the three groups most concerned with collecting on public lands. This bill is called the Paleontological Resources Conservation Act of 1983.

Since the professionals have recognized publicly the enormous contributions of the amateurs in the earth sciences, they have asked for our continued cooperation. Dr. Farish Jenkins of Harvard University, chairman of the group which wrote this legislation, has included the amateur every step of the way. As a result we should no longer be subjected to the capricious rulings of BLM - which recently took away our rights to pool or to trade petrified wood specimens, and granted local authorities the right to cancel such collecting altogether. As opposed to the BLM proposed hobby rulings which would result in waste and destruction, this bill would help science, education and museums.

The professional scientists know about our code of ethics, our scholarship funds, our volunteer work for schools and museums, our generous donations, and our important discoveries, so they have given us the right to have an amateur on the National Advisory Committee, to see that our position will always be sought.

Besides spelling out our rights, this legislation should raise our status, and make collecting easier and pleasanter for amateurs in the future. A set of restrictive, ill-advised rules like those of last fall, cannot jump suddenly upon us again, threatening the very basis of our hobby.

If passed, this bill will be the only basis for regulating the collecting and removal of fossils, rocks and minerals on public lands.

This bill will need lots of support from all who are interested in field trips. There are many people who equate collecting with destruction or hoarding, people who are ignorant of science. We must work with the professional scientists to see that this bill is passed. We need lots of letters to Senators and Representatives, and to the committees of the Senate and House, which will hold hearings. Please do your part. Write me for copies of the bill and more information.

June Zeitner, 5203 South Canyon Road, Rapid City, South Dakota 57702

OUR SISTER FEDERATIONS---The Eastern Federation

The Eastern Federation of Mineralogical and Lapidary Societies stretches from Calais, Maine, on the New Brunswick Border, to Key West, Florida. Between these two distant states, the Eastern Federation includes clubs in Vermont, New Hampshire, Rhode Island, Massachusetts, Connecticut, New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, Kentucky, West Virginia, South Carolina, North Carolina, Georgia, Alabama, Kentucky, and that includes a lot of territory. The current president of the Eastern Federation is Paul Dunning of Syracuse, New York. Clubs may be in other states too.

From a historical standpoint, the eastern states are important to the rock collector for it is in this area that collecting first became established. Fine agates were being recovered from the Triassic diabases in New Jersey in the 1700's, and a Dr. Watson of Boston had accumulated a collection of Massachusetts agates by 1820. World famous gemological and mineralogical author, John Sinkankas, grew up in the Franklin Furnace, New Jersey, area. Thus, the eastern seaboard has had an important influence on rock collecting in early as well as modern times.

Facetable tourmaline has been known to occur in Maine for quite a few years. This occurrence was well known by 1900, and a faceted tourmaline is to be seen in our club's Gems on Location case. Maine is well known to mineral collectors, and fine beryl has been found there too.

New York is probably best known to the collector by way of its Herkimer Diamonds, tiny double terminated quartz crystals that occur in basalts in Herkimer County. Pioneer geologist, James Hall, did much of his classical studies in New York. He described many Paleozoic fossils from that area, and did some outstanding work with Devonian rocks in that state. Hall did not originally call the Devonian of New York the Devonian. Only after learning that British geologists coined the term Devonian before his own terms were used, did Hall give priority to the earlier used names, and established the rules of priority. This rule has held for about 150 years.

Pennsylvania is well known for a particular variety of serpentine that is called Williamsite. It is a light green, semi-transparent material that appears jade-like to the untrained eye. Williamsite is much softer, but takes a very nice polish.

Although Virginia is best known to the lapidarist for Unakite, a green and pink, deeply altered granite, the state is a fossil collectors paradise. Some rare Ordovician age fossils are found in the western part, near Gate City, and more common, Miocene age fossils occur in many areas along the Atlantic Coastal Plain. These include marine invertebrate and vertebrate fossils.

North Carolina is well known for a variety of gems including emerald, beryl, ruby, sapphire, and other facetable stones. Some facetable spodumene gems also are found there. The important collecting areas are commercial sites near the town of Hiddenite.

Florida, of course, is well known for Miocene and Pliocene age fossils, and the Tampa Bay coral is world famous. The eastern federation state have contributed much to rock collecting.

Roger Pabian
Education Chairman

AFMS

ESTABLISHED BY
AMERICAN FEDERATION OF
MINERALOGICAL SOCIETIES.

Scholarship Foundation, Inc.

Mrs. Howard Taylor
LINCOLN GEM & MINERAL CLUB, INC.
910 New Hampshire Street
Lincoln, NE 68508

704 SW 31st
Pendleton, OR 97801
August 10, 1983

Dear Marie:

Whenever Mr. Dan McLennan, our Treasurer, forwards me a notice that a Club has reached a level so that a Plaque is in order, it is a real joy. Therefore, I was extremely happy to receive the news that your Club is not only eligible for the 1800% and 1900% Seals, but also for the:

2000 Percenter Plaque

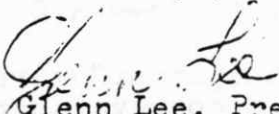
Few Clubs have reached such a high standing in support of the Foundation, and I would like to congratulate you and all your members for this continued support. Dan tells me this level was reached with the excellent credit of \$307.21.

Your Seals are enclosed and your Plaque has been ordered and will be forwarded by our Secretary, Miss Alberta Best, just as soon as it has been properly engraved. Please display it proudly as a token of your achievement, so that all your members may see it.

As you are aware, the Foundation is providing 12 grants this fall, each for a two year period and we are able to increase the amount to \$1,500.00 per year. It is your continued most generous support that makes it possible to provide this ever increasing assistance for deserving students.

Mrs. Louellen Montgomery of Topeka, KS, a Past President of the Rocky Mountain Federation, has been elected President of the Foundation for the term beginning Nov. 1st. It has been a real pleasure to work with you ever since your 1974 Show, and I'll be looking forward to seeing you at some of the shows -- most certainly at the National Convention in South Bend.

Sincerely yours,


Glenn Lee, President
AFMS SCHOLARSHIP FOUNDATION

cc: Dan McLennan, Treasurer
Rex Webb, Director
Katie Steinhrenner, Chairman

Midwest Federations NEWSLETTER

Published monthly except July and August as a service to member clubs. All news and articles should be sent to the Editor, Mrs. Betty Smith, 10507 Mary Ann, Zeeland, MI 49464. All subscription orders should be sent to Parrot Printing Service, 2125 Forest Avenue, Des Moines, IA 50311.



PP NT
F 3
1 1/2 St.
B. ton, MN 55431

1ST VICE PRESIDENT
JAMES EDWARDS
306 Somonauk
Park Forest, IL 60468

2ND VICE PRESIDENT
WILLIAM PARCH
P.O. Box 180
Fountain City, WI 54629

SECRETARY
MISS JEAN REYNOLDS
107 Tuttle Ave.
Clarendon Hills, IL 60514

TREASURER
MRS. KITTY STARBUCK
7836 V Avenue East
Vicksburg, MI 49087

NOVEMBER 1983.- Issue No. 238

Hats off

TO OUR NEW OFFICERS.....

PRESIDENT - REX WEBB Rex served this past year as MWF First Vice-President. He has been State Director as well as having served MWF in other capacities. He is a member of the Anoka County Gem & Mineral Club, Minnesota Mineral Club, and Richfield Mineral Club, and has served these clubs in almost every capacity, including President of all three.

FIRST VICE-PRESIDENT - JAMES EDWARDS Jim served this past year as MWF Second Vice-President. He has been State Director of Illinois, as well as Assistant State Director. He is a member and co-founder of the Park Forest Earth Science Club and their first President. He has held many offices and chairmanships in this club.

SECOND VICE-PRESIDENT - WILLIAM PARCH Bill just completed his 4th term as MWF Treasurer. He has served as State Director for Wisconsin, also as an Assistant State Director. He is a member of the Driftless Area Gem & Mineral Club and the Coulee Rock Club, and has served both clubs in many capacities.

SECRETARY - JEAN REYNOLDS Jean, an Honorary Member of the MWF, has served 16 consecutive years as Secretary. She is a member and Past President of the Earth Science Club of Northern Illinois, and is also Editor of the club's Earth Science News.

TREASURER - KITTY STARBUCK Kitty was the 1983 MWF Show Chairperson. She is a member of the Kalamazoo Geological and Mineral Society. She has been editor of their club's bulletin "Gems" for 17 years, and chairperson of their regular annual show for the last four years.

RESULTS OF SCHOLARSHIP AUCTION AT KALAMAZOO

10.75	Michiana Rock & Gem Club - South Bend, Indiana
80.95	Coulee Rock Club - La Crosse, Wisconsin
46.75	Earth Science Club of Northern Illinois
20.00	Heart of America Geology Club
9.50	Miami Valley Mineral Club - Fairborn, Ohio
3.75	Park Forest Earth Science Club - Park Forest, IL
187.95	Cedar Valley Rock & Mineral Society - Cedar Rapids, IA
11.85	Parma Lapidary Club - Parma, Ohio
11.30	Northern Earth Searchers - Carthage, Illinois
35.50	White River Rock Club - Muncie, Indiana
15.35	Gem City Rock Club - Quincy, Illinois
18.35	Neville Public Museum Geology Club - Green Bay, WI
2.00	Evansville Lapidary Society - Evansville, Indiana
40.75	Midwest Federation - (Midwest Typewriter)
28.00	Howard Taylor, Sr., Scholarship Memorial - Lincoln Gem & Mineral Club - Lincoln, Nebraska
21.75	West Suburban Lapidary Club - Elmhurst, Illinois
25.00	Mid-Iowa Rock Club - Marshalltown, Iowa
12.50	Grand Island Earth Science - Grand Island, Nebraska
72.25	Lake County Gem & Mineral Society - Waukegan, IL
6.50	Wisconsin Geological Society - Milwaukee, Wisconsin
2.00	Rolling Rock Club
30.50	Rock Exchange Club - Garden City, Michigan
14.05	Bay de Noc Gem & Mineral Club - Escanaba, Michigan
20.75	Central Michigan Lap & Mineral Society - Lansing, MI
.50	Flint Rock & Gem Club - Flint, Michigan
8.75	Indian Mounds Rock & Mineral Society - Wyoming, MI
21.85	Ishpeming Rock & Mineral Club - Ishpeming, MI
54.50	Grand Rapids Mineral Society - Grand Rapids, MI
11.50	Livingstone Gem & Mineral Society - Walled Lake, MI
63.25	Tulip City Gem & Mineral Club - Holland, Michigan
15.50	Midwest Mineralogical & Lapidary Society - Dearborn, MI
100.00	Donation - L.J. Wiggins, Credit 50.00 Muncie Rock & Gem Club and 50.00 Michiana Rock Club
\$1023.90	Total from Auction July 15, 1983

RECEIVED AT COUNCIL MEETING

31.00	Dayton Gem & Mineral Society (Auction Bola Tie)
25.00	Michiana Rock & Gem Club (Most displays)
15.00	Jack Dare

The Clubs that advanced their status at the auction will be notified. The others will be notified when they next send a contribution.

Katharine Steinbrenner, Chairman Midwest Scholarship

TO MIDWEST FEDERATION CLUBS: As it comes time for me to assume the responsibilities of President of Midwest Federation, I wish to express my thanks to all those who have shown their confidence in me.

This year I would like to stress the Midwest Federation's service to all the Member Clubs. We have many permanent, as well as temporary, committees working for us to make our hobby more educational and enjoyable for all.

Sincerely,

Rex Webb
Rex B. Webb

Reports

Convention Report
Midwest Federation Council Meeting
Saturday, July 16, 1983
Holiday Inn Expressway
Kalamazoo, Michigan

The annual MWF Council Meeting was called to order by President Diane Dare. Invocation was given by Clinton Heckert.

We were all welcomed to the Show and Convention by Kitty Starbuck, Chairman, and urged to "have a good time in Kazoo!"

Past presidents and other dignitaries were introduced.

Copies of the minutes of the past meeting were sent to all officers, state directors, permanent committee chairpeople and special committee chairpeople. The treasurer's report was given and copies were passed out to all in attendance.

The State Directors were all introduced, and each one read their reports. Fourteen states belong to the MWF.

The Permanent Committee chairmen were introduced and each one in attendance gave their reports. There are 26 Committees; not all chairmen were in attendance.

The Special Committee chairmen were introduced and each one in attendance gave their reports.

Next on the agenda were the Convention Reports.

Lloyd Brown invited all to attend the 1984 Show and Convention in (Milwaukee) West Allis, Wisconsin.

Ashton Wilson gave quite a speech about the 1985 Show and Convention to be held in Sioux Falls, South Dakota.

Jim Russell told us about how "South Bend will glow at the '86 Show." South Bend, Indiana will host the AFMS/MWF Show and Convention.

New Business was next on the agenda. This included election of officers for 1984.

- continued

REPORTS - continued

Elected were:

President: Rex Webb, Bloomington, Minnesota
1st V P: Jim Edwards, Park Forest, Illinois
2nd V P: Bill Parch, Fountain City, Wisconsin
Secretary: Jean Reynolds, Clarendon Hills, Indiana
Treasurer: Kitty Starbuck, Vicksburg, Michigan

Clinton Heckert, Elgin, Illinois and Susan Taylor, Lincoln, Nebraska, were elected to serve on the nominating committee for a three-year term.

I will bring my copy of the printed reports to the September meeting, for anyone to look at. These reports are very interesting to read and are informative.

Susan Taylor, Delegate

State Report

N.A.O.E.S.C.I. Annual Delegates Meeting
Sunday, September 11, 1983
Cottonmill Lake Kearney, Nebraska

President Jim Harrison presiding:

Call to order, 2:00 P.M. Roll call of the delegates was called. Ten Clubs were represented. It was noted that 2 Clubs had not renewed their membership. Those being Mitchell Rock and Gem and Chadron State College.

Minutes from the last meeting were approved and Treasurer's report accepted as presented.

Grand Island Earth Science Society was the only Club that bid for the 1984 State Show. Norfolk (Northeast Nebraska Rock & Mineral Society) will be the location for the 1984 Swap.

Vice President needs dates of Show and Swap by November 1, no later than December 12.

There was no Old or New business presented.

Historian Lillian Harrison asked if anyone in any of the Clubs would like her job. She indicated she had to give it up due to health reasons. She also indicated that someone was needed to take her other job as program director or custodian.

Ruby Price was chairman of the Nominating Committee.

Those nominated and elected are:

President, Wayne Bucholz
Vice President, Connie McCartney
Secretary, Treasurer, Margaret Hohnholt
Board of Directors, 2 yrs., Wes Geiken and Jim Stewart
Nominating Committee, Sylvan Ellsworth and Ray Graham

LGMC Delegates attending the meeting were Glenn Lyman and Jim Stewart.

Glenn Lyman, Delegate

A NUMBER OF LGMC MEMBERS WROTE IN SUPPORT OF THIS BILL.

Volume 24 Issue 1 THE PICK & SHOVEL Sept. 1983 Page 13

THIS BILL WILL SAVE OUR FIELD TRIPS

(An ~~exer~~pt from the MIDWEST Federation Banquet Talk)

By June Zeitner

.... I want to thank all those who wrote letters of comment about the BLM proposed field trip regulations last fall. Your aid in helping save our field trips bought us time. I learned something about making comments to the Government by studying my list of the places the 1200 comments were from. (Another 300 arrived too late to be counted.) Among the 1200 comments were many representing large groups of people- clubs, federations, museums and universities... tens of thousands of people... but each letter counted as one comment. Diane Dare wrote a strong letter in behalf of the Midwest Federation. One comment. But an officer of the Richland Lithnic Club of Mansfield Ohio wrote a letter for the Society and each member present at that meeting also wrote. These comments may have been all more or less the same, but they were signed individually and mailed in separate envelopes and the result was dozens of comments. A few individuals in Midwest wrote several letters and each one counted. Sheer numbers impress politicians and bureaucrats like nothing else. Next time you are asked to help, don't leave it up to your club or federation. Do it yourself. Even if it is only a few words, write, and have your family and friends write.

There have been rumors that the professional scientists are against us. Most are not. But just so you realize what some of the Professionals from Universities and Museums think of us, here are some of the comments they sent to BLM.

From Florida: " An amateur rockhound finding a good specimen with 'gem quality teeth' will hack up the skull, leaving the fossil in shambles. "

From Yale: " We have no idea how much has been lost to the public and to science through the activities of recreational collectors. "

From Utah: " Allowing amateurs to collect petrified wood is paleontological rape. "

From Georgia" " Amateur rockhounds and fossil collectors all have a universal ' pot hunters' attitude in going for the spectacular and complete specimens while destroying the site data and supplemental evidence. "

Most of these people were not in agreement with the BLM either, though for different reasons. These professionals have obviously lived deprived lives, since they have not become acquainted with any of our productive,

careful, ethical, and generous hobbyists.

However most of the professional comments were like the following.

The University of Michigan: " It has been my experience that many of the best fossil specimens are not found by professionals, but by amateurs who collect material for monetary or hobby purposes. Regulating these individuals would only serve to lessen or eliminate a broad unofficial network of amateur researchers who greatly aid the professional. "

From Washington D.C.: "Most of the Mineral and Fossil specimens in the museum collections around the world were collected by the amateur or the commercial collector. Fossils of scientific interest usually end up in collections which can be appreciated by the public and studied by science."

From the Midwest. (My favorite). " Please excuse my stationery. I have been hospitalized for a number of weeks and this is all I have available. Fossil collecting has been of overwhelming interest to me ever since my college days 50 years ago. I am a professor of paleontology and curator of one of the most important small museums in the Midwest with an outstanding collection of Silurian and Devonian fossils. We would not have this collection if it were not for the amateur collectors of the late 1800s. Amateurs today are making just as important finds , most of which end up in museums after the finders have had the pleasures of discovery and satisfaction of making scientific contributions for the good of all. Amateurs provide free time, eager eyes and important contributions. " These words in support of us were written by Dr. Katherine Nelson of the University of Wisconsin at Milwaukee, who died shortly after she wrote this letter.

Last winter I was asked to give the hobbyists point of view in the collecting of fossils, by a national committee working to write legislation to replace BLM regulations based on the long outdated Antiquities law of 1906, with the type of law which would encourage collectors and preserve and conserve our fossil heritage. Head of the committee was Dr. Farish Jenkins, Paleontology Curator for the Harvard University Museum and immediate past president of the Society of Vertebrate Paleontology, and a National Park Service Consultant.

I was happy to point out the scientific and monetary value of the volunteer work done by amateurs . I noted the part we have played in earth science education, particularly our Scholarship funds. I mentioned our Midwest Holotype collection, and the generous participation with museums by clubs like ESCONI and the Lincoln Nebraska club, and the dedicated scientific work of NAPS. (Mid America Paleontology Soc.)

I tried to stand up for the rights... and the responsibilities... of the amateurs. When asked what organization could best represent the hobby on a national advisory committee I said that in my opinion AFNS was the one best qualified.

This piece of legislation has now been introduced. S 1569 is mostly about vertebrate fossils. It covers excavating, collecting and the removal of such fossils from public lands for Institutions purposes, commercial purposes and private purposes. However there are some sections of this bill specifically for us.

" NO PENALTY SHALL BE ASSESSED FOR THE EXCAVATION, COLLECTION, AND REMOVAL OF NON VERTEBRATE FOSSILS OR NON FOSSIL GEOLOGICAL MATERIALS. "

" NO PERMIT WILL BE REQUIRED FOR COLLECTORS OF ROCK OR MINERAL SAMPLES OR NON VERTEBRATE FOSSILS/AND NO FEE WILL BE REQUIRED. "

Of major importance is that, for the first time, this act acknowledges the gem, mineral, and fossil hobbyist, and guarantees our rights of collecting on public lands. IF ENACTED THIS BILL WILL BE THE ONLY BASIS FOR REGULATING THE EXCAVATION AND REMOVAL OF ROCKS, MINERALS, AND FOSSILS FROM PUBLIC LANDS. (Except, of course , where prohibited, such as National Parks.

I am sure there will be lots of opposition. Plenty of people think that nothing should ever be collected anywhere by anyone. Others think that noone except a professor with a PHD should be allowed to collect. This bill is a historic compromise for the good of education and science by all three groups most concerned with the removal and study of fossils. It is an agreement of future cooperation.

I don't know how we could be so lucky as to have Dr. Jenkins of Harvard be so sympathetic and supportive of the amateurs' interests. Remember, when you read the bill that Dr. Jenkins, the Society of Vertebrate Paleontology, The Paleontological Society, and the Association of Paleontological Suppliers did not have to include the amateur. In publicly recognizing us they have acknowledged the important contributions of amateurs. They have acknowledged our generosity, our scientific and educational goals, and our willingness to cooperate. They have even given us a chance to have a representative on the National Advisory Committee, to speak up for our interests in the future.

There were piles of new BLM regulations this summer. One part withdrew

petrified wood from hobby materials, revokes the right to pool or trade specimens of petrified wood, and gives local officers the right to cancel petrified wood collecting.

This new bill should save us from constant and often capricious rulings. It will be decided by Congress, and we will have to let Congress know our wishes. We are going to need lots of letters of support. The passage of this bill will be the big boost to the future of our hobby we have all been waiting for.

Make no mistake about it, there will be a battle over who is right... Dr. Katherine Nelson who worked for our interests from her death bed, or the curator from Georgia who thinks we are thoughtless and destructive "pot hunters". The paleontologists have given us a big chance to show who we are and what we can do. We cannot fail.

Please write your Senators and Representatives about your support of this bill " The Paleontological Resources Conservation Act of 1983!"

Send copies to Senator Pressler (R. S.D.) who introduced the bill and Senator Paul Tsongas (D. MA) co-sponsor, and to the following members of the Senate Committee on Energy and Natural Resources.

James Mc Clure, Malcolm Wallop, Chic Hecht, J. Bennett, Henry Jackson, John Melcher. (Senate zip is 20510.)

Send copies to the following members of the House Interior and Insular Affairs Committee. Morris Udall, John Seiberling, Phillip Burton, Bruce Vento, Manuel Lujan, Don Young, Dick Cheney, Charles Pashayan, Jr. (House Zip is 20515.)

* * * * *

WORDS

Here is a FIND from recent readings:

The Lord's Prayer has 56 WORDS. The story of the Creation of the Word was told in less than 100 WORDS. Lincoln's Gettysberg Address has 266 WORDS. The Ten Commandments have 297 WORDS. The Declaration of Independence has 300 WORDS. A recent U.S. Government order setting the price of cabbage contained 26,911 WORDS!!!!

Via Breccia
Petrified Log, etal

LINCOLN CITY LIBRARY FOUNDATION

14TH AND N STREETS

LINCOLN, NEBRASKA 68508

November 3, 1983

Lincoln Gem & Mineral Club
Box 5342
Lincoln, NE 68502

Dear Friends:

On behalf of the citizens of Lincoln and the Board of Trustees of the Lincoln City Library Foundation, we thank you for your gift to the Library of a 16mm film. Gifts such as yours help us offer the fine services which our users find so helpful.

Again, we thank you for your generosity and your interest in the Library.

Sincerely,



Carol J. Connor
Director of Libraries

CJC:pc

LINCOLN

DONALD J. SMITH
Director

October 10, 1983

GARY C. COOPER
Superintendent

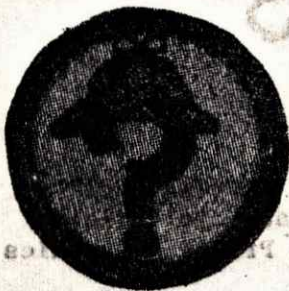
To Whom It May Concern:

Janet Wright worked with the Nature Center staff during the fall training session. During the training, Janet presented information to the staff on the subject of **geology, highlighting geologic** formations of rocks and other land forms. The information and techniques presented to the Nature Center staff by Janet will be used with elementary school children that visit the Nature Center as part of the Outdoor Education Program.

Beverly J. Bartek
Beverly J. Bartek
Outdoor Ed. Coordinator
Chet Ager Nature Center
Lincoln Parks & Recreation

GIRL SCOUTS

SCIENCE SLEUTH (World of Today and Tomorrow)



Purpose: Visit Pioneer Park to study geology. Earn several requirements toward badge.

Consultant: Jan Wright

Location: Pioneer Park. Meet at Scout office, 1701 S. 17th, at 12:30 p.m. to car pool.

Time and Date: July 29; 12:30 - 4:00 p.m.

Limit: 20 girls

No additional charge.

Three adult volunteers needed.

May 12

Leader: Jan Wright

Time & place: 2:30 - 4:30

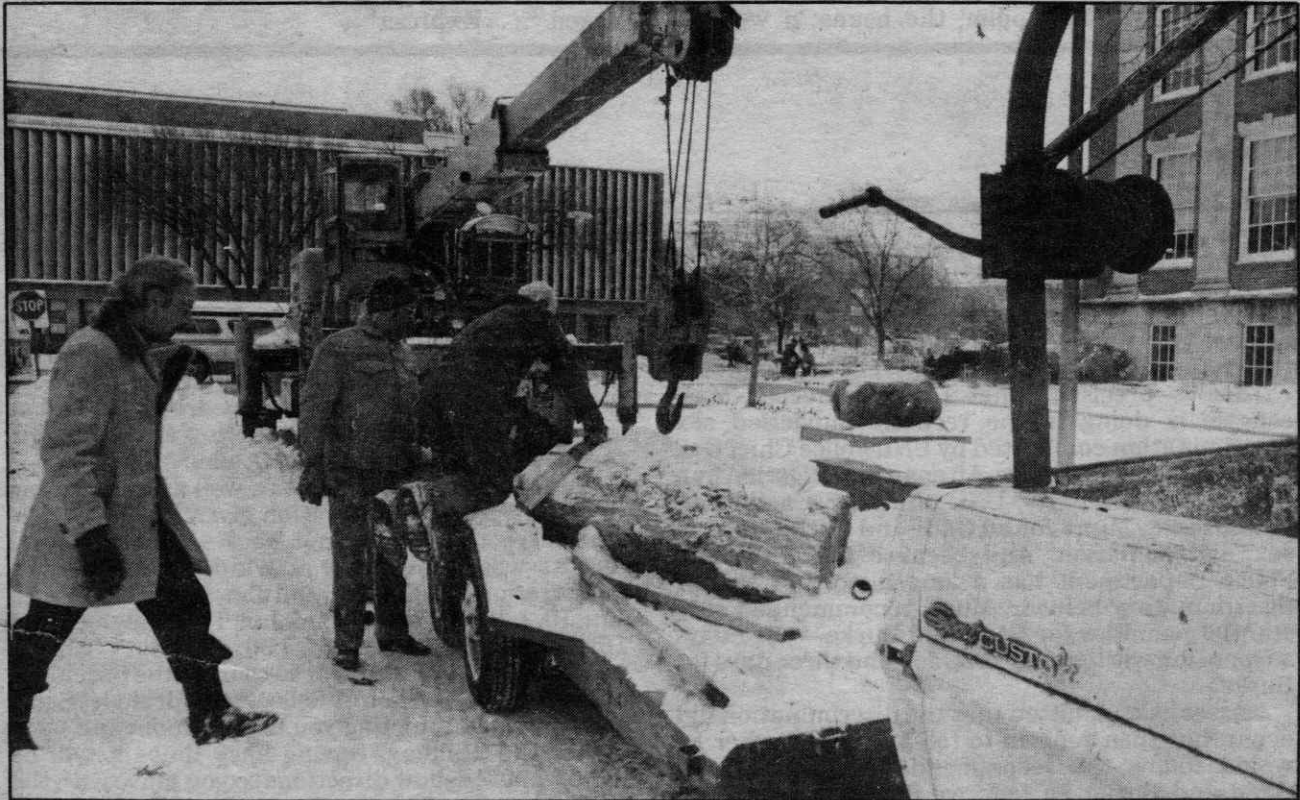
Craft: Hiking badge (Fossil Collection + Study)

Snacks: Regan Wright

BROWNIES

ANCIENT TREE STUMP DELIVERED TO MORRILL HALL MUSEUM

The Lincoln Gem and Mineral Club paid the cost of transportation. Club member Tom Simmons used his heavy rockhunting equipment.



DAILY NEBRASKAN
Friday, December 2, 1983
submitted by Vera Lyman

Staff photo by John Zoz

Ancient his-tree

A UNL maintenance crew and members of the Lincoln Gem and Mineral Club delivered an unusual gift to the Morrill Hall lawn Thursday morning. The gift was a 13 million-year-old fossilized tree stump that weights an estimated half ton. Michael Voorhies, curator of paleontology at Morrill Hall, said the stump was donated by retired Antelope County farmer Don McBride, who found the fossil in a steambank near his home. The stump, which will be on permanent display outside Morrill Hall, is thought to be that of a live oak, Voorhies said. He said the tree is a subtropical species that grew in Nebraska during prehistoric times.



The University of Nebraska-Lincoln

University of Nebraska State Museum
Lincoln, Nebraska 68588

December 8, 1983

Holiday Greetings to friends of the Museum!

A moment of your time is needed to hear our plea.

To our amazement, we are taking over the responsibilities of the Museum Gift Shop-Information Center on January 2, 1984. After this date "Friends of the Museum" hopefully will operate the Shop-Information Center on a total volunteer basis. Our plea to you is the need for volunteers to staff the areas of interest indicated on the enclosed card. We anticipate the Shop will be open daily from 9 a.m.-3 p.m. If you have the time and interest to help with this undertaking, please return enclosed card.

Training sessions will be held for all volunteers.

For the "Friends" first major effort to support the needs of the Museum - we need your help.

Zamova Stitcher
489-3765

Shirley Johnson
489-9875

Co-chairmen, Gift Shop Committee

A NUMBER OF LINCOLN GEM AND MINERAL CLUB MEMBERS BELONG TO "FRIENDS OF THE MUSEUM" AND SEVERAL HELP IN THE ENCOUNTER ROOM ON A REGULAR VOLUNTEER BASIS, MOST NOTABLY LYNN AND MARIE WELLS.

ROGER PABIAN AND FLORENCE BORING WERE ON THE PROGRAM FOR THE GREATER NEBRASKE ASSOCIATION OF TEACHERS OF SCIENCE ANNUAL FALL RETREAT, EASTERN NEBRASKA 4-H CENTER, LOUISVILLE, NEBRASKA, OCTOBER 27-29, 1983.

- 7

EARTH SCIENCE

FRIDAY

- 9:00-12:00--*Fossil Collecting Trip to Rock Quarry*--Roger Pabian
This trip will include information on how deposits were formed and their age. Participants will also have an opportunity to collect Permian age marine fossils. "Hard hats needed!" (Wear clothes you can junk around in--optional.)
- 1:30- 3:00--*Swimsuit Geology*--Karen and Charles Messengers
How the Platte River works and the geology along the river. "Panning for gold?"
- 3:30- 4:30--*Fish Hatchery*--Roger Stein
The history and management of the fish hatchery.

SATURDAY

- 9:00-10:00--*Space Rocks*--Florence Boring
A slide and cassette presentation for teachers use in the classroom.
- 10:00-11:30--*N.A.S.A. Spacemobile*
Models from the United States Aerospace program will be highlighted.

Friday

*Pictures of Rogers Pabian
leading the field trip*

*Roger Pabian (left center) leading a field trip

VOLUNTEER PRESENTATIONS

The following aerospace presentations were made during 1983 by LGMC member Florence Boring on a volunteer basis. each presentation dealt with applications from the Space Exploration and Utilization programs and stressed the study of Earth's surface from Space.

January 29	South Dakota Civil Air Patrol Wing Conference, Sioux Falls, South Dakota
March 1	Talbott-Brownell Elementary School Omaha, Nebraska
May 9	Capitol City Squadron Civil Air Patrol Lincoln, Nebraska
May 21	Lincoln Gem and Mineral Club Lincoln, Nebraska
June 8	Teachers Workshop, University of Nebraska at Omaha, Omaha, Nebraska
July 12	Teachers Workshop, Wayne State College, Wayne, Nebraska
August 2	Teachers Workshop, Wyoming Aviation Commission Cheyenne, Wyoming
September 24	Teachers Workshop, Nebraska Association of Aerospace Educators, Utica, Nebraska
October 28	State meeting, Greater Nebraska Association of Teachers of Science, Louisville, Nebraska
November 18	XYZ Luncheon Club Lincoln, Nebraska



**LINCOLN
CHAMBER OF COMMERCE**

1221 N Street, Lincoln, Nebraska 68508 / (402) 476-7511
Accredited Chamber of Commerce / Chamber of Commerce of the United States

August 31, 1983

Mr. Howard Taylor, Jr.
910 New Hampshire
Lincoln, Nebraska 68508

Dear Mr. Taylor,

Will you please be so kind as to send this young lady a native rock.

Thank you.

Sincerely,

Norma Lewandowski

Enclosure - Letter

Dear Sir;

I would like to know if you will send me a rock native of your region, also any information on it.

Thank you for your help!

My name is
I am 8 years old.

Angela Donato
11 Reservoir Rd.
NORWICH, CT.
'06360

September 30, 1983

Miss Angela Danato
11 Reservoir Rd.
Warwick, Ct.

Dear Angela:

The Lincoln Gem & Mineral Club was the recent recipient of the letter you wrote to the Chamber of Commerce, requesting rocks from this state.

I am a member of that club & have volunteered to make up a group of rocks, minerals & fossils representative of Nebraska & the surrounding area, which I am sending to you under separate covers.

I hope you will find the boxed & labeled specimens interesting & that they will be of help in your project.

Sincerely,
George McGinnis

Dear Mr. & Mrs. McGinnis,

Thank you for the rocks you sent me. My class liked the Bison tooth best. Because we are talking about fossils. And thank for helping me get more rocks for my collection.

Angela Donato
11 Reservoir Rd.
Norwich, Ct. 06360



Mr. & Mrs. McGinnis
3444 Somerset Avenue
Lincoln, Nebraska

68504

Love,
Angela Donato

Dear Sirs,
In school we are
studying about rocks from
different parts of the Country
we are building a display
and the teacher asked us
to write to different people
for rocks from different areas.

If you can get some
would you please send them
to me and tell me what
what kind and where found.

If you dont have any would
you give this letter to some
body who can get us some
rocks for us.

Thanks, Mrs. Taylor,
for sending this youngster
several rocks!
Sincerely,
Norma Howard
Chamberlain

Thank you,
Julia Sullivan.
Mooreland, Iowa
50566

2836 South 40 Street
Lincoln, NE 68506
March 21, 1983

Miss Julie Sullivan
Moorland, Iowa 50566

Dear Julie:

On behalf of the Lincoln (Nebraska) Gem and Mineral Club I am sending you the following. Your letter to the Lincoln Chamber of Commerce requesting Nebraska rocks for your school project was forwarded to us.

- 1 prairie agate
- 1 Nebraska blue agate with drusy quartz lining
- 2 pcs. polished Nebraska blue agate
- 1 "blue" agate, Toadstool Park
- 1 calcite in limestone
- 1 banded chert
- 1 red jasper
- 1 blue celestite crystals in vug
- 1 packet Odell "diamonds"
- 1 banded pink quartzite
- 1 pc. sandstone concretion (Indian "paintpot")
- 2 pc. horn coral
- 2 chalcedony "roses"
- 2 pc. slate
- 3 pc. chert and flint
- 2 pc. siltstone
- 1 pc silky gypsum
- 1 large selenite crystal
- 2 pcs. Nebraska wood

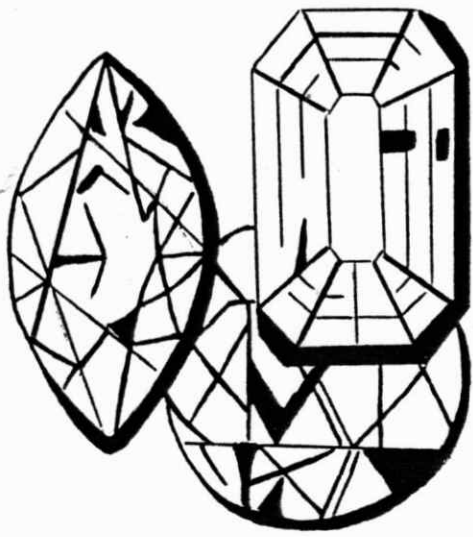
Each specimen is marked with its identity and the location where it was found. I am also inclosing a postcard picture of Toadstool Park and a map of Nebraska, so that you can find the locations on the map.

I hope that you and your classmates are enjoying your project with rocks of the states.

Sincerely yours,

Florence M. Boring

Florence M. Boring
for LGMC



GEM

and

MINERAL

SHOW

at the

Neihardt Center

(branch museum of the Ne. State Historical Society)

Bancroft, Ne.

Oct. 9-30

EXHIBITS BY LINCOLN GEM AND MINERAL CLUB AND OTHER AREA COLLECTORS.
SPECIAL DISPLAY OF JOHN NEIHARDT'S LAPIDARY EQUIPMENT.

Center Hours : Mon. - Sat., 8:00a.m. - 5:00p.m. ; Sunday 1:30 - 5:00p.m.
Tour groups by appointment - call (402) 648-3388

EXECUTIVE BOARD
ELECTED MEMBERS

Erwin J. Faulkner, President Lincoln
J. M. Hart, Jr., 1st Vice President Omaha
Mrs. Bill (Virginia) Coffey
2nd Vice President Harrison
Arthur Carmody, Treasurer Trenton
Maurice S. Hevelone Beatrice
Walter G. Huber Blair
Otto Kotouc, Jr. Humboldt
Nes Latenser Omaha
Charles W. Martin Omaha
James A. Rawley Lincoln
S. N. Wolbach Grand Island
Nellie Snyder Yost North Platte

MARVIN F. KIVETT
DIRECTOR-SECRETARY



Phone (402) 471-3270

EXECUTIVE BOARD
EX-OFFICIO MEMBERS

BOB KERREY, GOVERNOR
State of Nebraska

RONALD W. ROSKENS, PRESIDENT
University of Nebraska

NORMAN KRIVOSHA, CHIEF JUSTICE
Supreme Court of Nebraska

KENT THOMAS, PRESIDENT
Nebraska Press Association

1500 R STREET, BOX 82554
LINCOLN, NEBRASKA 68501

John Lindahl, Curator
Neihardt Center/NE. St. Hist. Soc.
Bancroft, Nebraska 68004-0344

January 10, 1983

J.D. and Myrtle Young
300 South Cotner Blvd.
Lincoln, Nebraska 68510

In our attempts to honor Dr. Neihardt at the Center we have several activities planned for 1983. Already on the agenda are the Neihardt Conference, Neihardt Day, an Area Art Show, a handicraft show (clothing articles made of natural fibers, and hopefully, some spinning demonstrations - a form of folk-art), and Arthur Pierce's calligraphy exhibit. If possible, we would also like to have another gem and mineral show in October. Do you think we would have enough planning time for an October show? (If it would be impossible to have a show in October, we could have one in spring '84.) Would members of the Lincoln club be interested? Should we try to get other clubs involved? The last gem show at the Center was held in May '78. For that show we sent invitation letters to the following clubs: Loup Valley Gem and Mineral Society, Monroe; Siouland Gem and Mineral Society, Sioux City; Nebraska Gem and Mineral Club, Omaha; Lincoln Gem and Mineral Club, Lincoln. Participants in the '78 show included members of the Lincoln club and a few area collectors.

* We also plan to have a photo exhibit - "Nebraska Farming - 1870s-1930's"

J.D. and Myrtle Young

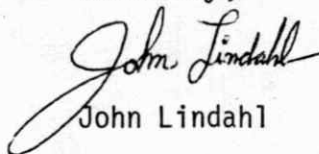
-2-

January 10, 1983

It would be appropriate to have another show in '83 or '84 since we would be able to feature Dr. Neihardt's equipment. Hilda plans to extend her loan of the equipment to the Historical Society for two more years. We need to make use of the equipment while it is still at the Center. Also, it has been five years since the last show, and the one in '79 was very successful. I am sure another show would have similar public appeal.

Please let me know if you have any special thoughts on a gem show at the Center, so I can make exhibit plans for the month of October. Thanks again for sending the fine article.

Sincerely,


John Lindahl

JL:cev

NEIHARDT CENTER
Bancroft, Nebraska
GEM AND MINERAL SHOW
Oct. 9-30, 1983

ONE OF JOHN NEIHARDT'S HOBBIES WAS LAPIDARY

"I need to make with my hands when I am making with a pen. Overcoming difficulties in one field of effort releases power in the other - it is a trick worth learning."--Dr. John G. Neihardt, as quoted in "A Place of Light", by Dr. Decker, President of Fairleigh Dickinson University. The truth of this quote from Dr. Neihardt probably has been noted by many of us when, tired by the "rat race", we have felt the aura of comfort and satisfaction from different facets of our hobby.

The poet was sincere when he said, "Writing poetry is like working with fine gemstones." His long, distinguished life of nearly ninety-three years proved his mastery of both the pen and the hand. The latter included skills in lapidary, leather, wood, knives and guns, many adorned with gems. He invented a unique gun sight, and his marksmanship was unexcelled. A boyhood ambition to become an inventor faded after his vision-dream at age eleven which guided him to be one of the world's greatest epic poets. The duration of his laureateship of the State of Nebraska since 1921 was the longest in the world's history, the first by act of a legislature. In 1982, nine years after his death, the poet was named Poet Laureate in Perpetuity at a special Nebraska Committee For The Humanities banquet held in the Nebraska State Capitol Rotunda.

The Neihardt Center Gem and Mineral Show features Dr. Neihardt's lapidary equipment. The equipment is on loan to the Nebraska State Historical Society by the Neihardt family. Dr. Neihardt purchased the small drill press when he lived in Branson, Missouri. At the time, he was working on several inventions including the gun sight which was to have interchangeable discs with several sight holes. He later assembled attachments for cutting and polishing rough stones. His drills were fashioned out of nails, but the poet created some beautiful jewelry from his primitive equipment.

Dr. Neihardt's handiwork has been exhibited in two national gem shows, one in Salt Lake City in June, 1969, and the other in Lincoln in June, 1974. Some of his displays included a jade necklace, matching ear-pendants and hololith jade ring with inset gold band. Other jewelry included a hololith quartz crystal ring set with a threaded-in Jellybean Mexican opal, a stone cameo, and the poet's favorite stickpin. The parallel gold chains of the jade necklace, held apart by a series of jade spindles, were once part of a family heirloom of his sculptress-wife, Mona Martinsen.

Mona was slender; and the jade set was made to fit her neck. She was an artist in her own right, having studied with the great Rodin in Paris, where some of her work was shown in the Salon. Her other creations include busts of her famous husband. A bronze copy is in the Nebraska State Capitol Hall of Fame, another at Wayne State College, and one at the University of Missouri (Columbia) Library. Two original busts are exhibited in the Neihardt Center. A bust of Alice Neihardt, Dr. Neihardt's mother, is in the Memorial Room. A bust of the young poet is on display in the library. This bust is on loan from Wayne State College.

The Neihardt Center Gem and Mineral Show will be held Oct. 9 through Oct. 30. Jim Taylor, President of the Lincoln Gem and Mineral Club, and his family will host the first day of the show, Sunday afternoon, October 9. The late Poet Laureate of Nebraska became an honorary life-member of the Lincoln Club while residing with Mr. and Mrs. J. D. Young from January, 1968 to November, 1973. Mr. and Mrs. Young were recently honored with an active life membership in the Lincoln Gem and Mineral Club. The Lincoln Club and local collectors have loaned their exhibits for the Neihardt Center Show.

The Lincoln Gem and Mineral Club is primarily responsible for the permanent display of a 700 lb. fossil-cycad (properly called cycadeoids) which is symbolic of the "Tree of Life" in the Memorial Room. This particular cycad was found near Lemmon, South Dakota by Dr. L. A. Deitrick of Bison, South Dakota. It was donated by the Lincoln Gem and Mineral Club and friends in Perkins County, South Dakota.

The Neihardt Center, a branch museum of the Nebraska State Historical Society, is open Monday through Saturday, from 8 a.m. to 5 p.m. and on Sundays, from 1:30 to 5 p.m.

EXECUTIVE BOARD
ELECTED MEMBERS

Edwin J. Faulkner, President Lincoln
M. Hart, Jr., 1st Vice President Omaha
Bill (Virginia) Coffee
nd Vice President Harrison
Arthur Carmody, Treasurer Trenton
Maurice S. Hevelone Beatrice
Walter G. Huber Blair
Otto Kotouc, Jr. Humboldt
Nes Latenser Omaha
Charles W. Martin Omaha
James A. Rawley Lincoln
S. N. Wolbach Grand Island
Nellie Snyder Yost North Platte

MARVIN F. KIVETT
DIRECTOR-SECRETARY



Phone (402) 471-3270

EXECUTIVE BOARD
EX-OFFICIO MEMBERS

ROBERT KERREY, GOVERNOR
State of Nebraska

RONALD W. ROSKENS, PRESIDENT
University of Nebraska

NORMAN KRIVOSHA, CHIEF JUSTICE
Supreme Court of Nebraska

KENT THOMAS, PRESIDENT
Nebraska Press Association

1500 R STREET, BOX 82554
LINCOLN, NEBRASKA 68501

John Lindahl, Curator
Neihardt Center/NE. St. Hist. Soc.
Bancroft, Nebraska 68004-0344

May 20, 1983

Jim Taylor, President
Lincoln Gem and Mineral Club
910 New Hampshire
Lincoln, Nebraska 68508

Dear Mr. Taylor,

As you are probably aware, we are having a gem and mineral show at the Neihardt Center October 9-30. Exhibits will be furnished by the Lincoln Gem and Mineral Club and area exhibitors. Mr. and Mrs. Julius Young and Florence Boring suggested that you, your mother and sister, could host the opening day reception on Sunday, October 9 from 2:00-5:00 P.M. We would really appreciate it if you would be willing to do this for us. Please let me know if you can be here for the reception so we can make plans to include you and your family in the publicity for the show.

Sincerely,


John Lindahl

JL:cev

EXECUTIVE BOARD
ELECTED MEMBERS

Edwin J. Faulkner, President Lincoln
J. M. Hart, Jr., 1st Vice President Omaha
Mrs. Bill (Virginia) Coffee
..... Vice President Harrison
Carmody, Treasurer Trenton
Alice S. Hevelone Beatrice
Walter G. Huber Blair
Otto Kotouc, Jr. Humboldt
Nes Latenser Omaha
Charles W. Martin Omaha
James A. Rawley Lincoln
S. N. Wolbach Grand Island
Nellie Snyder Yost North Platte

MARVIN F. KIVETT
DIRECTOR-SECRETARY



Phone (402) 471-3270

EXECUTIVE BOARD
EX-OFFICIO MEMBERS

ROBERT KERREY, GOVERNOR
State of Nebraska

RONALD W. ROSKENS, PRESIDENT
University of Nebraska

NORMAN KRIVOSHA, CHIEF JUSTICE
Supreme Court of Nebraska

KENT THOMAS, PRESIDENT
Nebraska Press Association

1500 R STREET, BOX 82554
LINCOLN, NEBRASKA 68501

John Lindahl, Curator
Neihardt Center/NE. St. Hist. Soc.
Bancroft, Nebraska 68004-0344

November 15, 1983

Jim Taylor
910 New Hampshire
Lincoln, Nebraska 68500

Dear Jim,

We want to thank you and your family for participating in the gem and mineral show at the Neihardt Center. We also want to thank the Lincoln Gem and Mineral Club for special displays and support for the show. Numerous visitors enjoyed the displays, and there were many compliments. If it were not for your co-operation we could not have had a show, so once again, many thanks.

Sincerely,

John Lindahl
John Lindahl

JL:cev

EXECUTIVE BOARD
ELECTED MEMBERS

Edwin J. Faulkner, President Lincoln
Hart, Jr., 1st Vice President Omaha
Bill (Virginia) Coffee
2nd Vice President Harrison
Arthur Carmody, Treasurer Trenton
Maurice S. Hevelone Beatrice
Walter G. Huber Blair
Otto Kotouc, Jr. Humboldt
Nes Latenser Omaha
Charles W. Martin Omaha
James A. Rawley Lincoln
S. N. Wolbach Grand Island
Nellie Snyder Yost North Platte

MARVIN F. KIVETT
DIRECTOR-SECRETARY



Phone (402) 471-3270

EXECUTIVE BOARD
EX-OFFICIO MEMBERS

ROBERT KERREY, GOVERNOR
State of Nebraska

RONALD W. ROSKENS, PRESIDENT
University of Nebraska

NORMAN KRIVOSHA, CHIEF JUSTICE
Supreme Court of Nebraska

KENT THOMAS, PRESIDENT
Nebraska Press Association

1500 R STREET, BOX 82554
LINCOLN, NEBRASKA 68501

John Lindahl, Curator
Neihardt Center/NE. St. Hist. Soc.
Bancroft, Nebraska 68004-0344

November 15, 1983

Florence Boring
2836 So. 40th St.
Lincoln, Nebraska 68506

Dear Florence,

We want to thank you for participating in the Gem and Mineral Show at the Neihardt Center. Numerous visitors enjoyed the displays, and there were many compliments. If it were not for your co-operation we could not have had a show, so once again, many thanks.

Sincerely,

John Lindahl
John Lindahl

JL:cev

P.S. Thanks for your special help for the gem and mineral show. We had 489 visitors during the show.

In addition to those from Nebraska, visitors were registered from Iowa, South Dakota, Wisconsin, California, Washington, Minnesota, Kentucky, Oregon, Missouri, and Texas.

Scientist Bertrand Schultz honored

By Glenda Peterson
Journal Staff Writer

Vance Rogers says C. Bertrand Schultz must have been reared in a home "dominated by a spirit of inquiry."

By the time Schultz graduated from Red Cloud High School, Rogers noted Wednesday at a luncheon in Schultz's honor, Schultz had mapped out 21 sites of previous Indian developments in the area.

Since then, that same spirit of inquiry has taken Schultz, in what he calls a search for "scientific truth," to 60 countries in the study of changing environments and the migrations of man and other animals.

Schultz, 75, internationally recognized as an expert in paleontology, changing climates of the world and water resources, was honored Wednesday "for creative distinguished service and bringing national recognition to Lincoln and Nebraska."

Nearly 200

Nearly 200 business, professional, academic and civic leaders attended an NBC Center community affairs luncheon co-sponsored by the Lincoln Foundation and the Stuart family of Lincoln.

Schultz, who served as director of the University of Nebraska State Museum for 32 years and has been on the university faculty since 1927, continues as executive director of the Nebraska Academy of Sciences, a position he has held since 1975, and as a research associate in the museum and the UNL geology department.

At Wednesday's luncheon he received a key to the city of Lincoln from Mayor Roland Luedtke and a money clip and citation from Bill Kerrey, representing Gov. Bob Kerrey and the state of Nebraska. Robert Duncan of Duncan Aviation, in cooperation with the Lincoln Foundation, presented a bronze scale model of the Capitol's Sower to Schultz.



C. Bertrand Schultz

Rogers, representing the foundation, said three characteristics mark Schultz's life: total commitment to communication, cooperation and seeking the truth.

Schultz said before the luncheon that one of the most important things he has done "was to find a wonderful wife who has been with me for 52 years." Marian Schultz, herself a research scientist in anthropology and geography, "gave up a good position in Omaha to live in the field during the Dirty Thirties, living in tents out in the field. She donated full time to the university for 12 years."

Said Schultz: "Alone you can't do anything. Of the honor bestowed upon him he said: "I know I don't deserve this." He credited others with contributions to his own success.

Noted by Eiseley

The late Loren Eiseley, who grew up in Lincoln and became a world-renowned anthropologist, internationally acclaimed writer and poet, described Schultz in his autobiography as "one of those fortunate people who knew his course and did not wander." Mrs. Schultz accompanied her husband on

all his travels, taking part in the proceedings of all the meetings he attended.

This year they traveled to western China to study deserts, loess, terraces, water, irrigation and changing climatic conditions.

Many honors

Schultz has received many honors, including induction as a fellow of the Geological Society of America, the Paleontological Society and the American Association for Advancement of Science. He received the highest honor bestowed by the Society of

Vertebrate Paleontology and was made an honorary member of the International Union for Quaternary Research at the 1982 meeting in Moscow. Schultz served as consultant to author James Michener for scientific facts and research in Michener's writing of "Centennial" and other works.

Schultz has been active in Lincoln civic organizations, including service as president of the Northwest Lincoln Community Association and of Belmont Community Center.

DR. C. BERTRAND SCHULTZ
IS AN HONORARY LIFE MEMBER
OF THE LINCOLN GEM AND MINERAL CLUB.