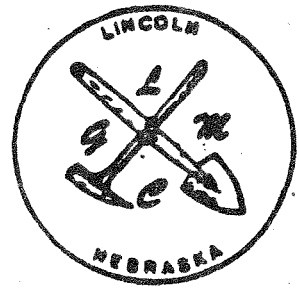


THE PICK & SHOVEL

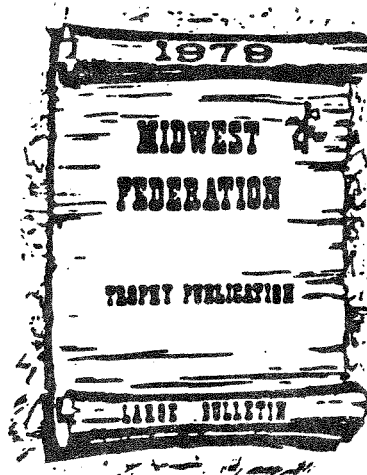


NOVEMBER

1984

In this issue

BLACK HILLS' WIND CAVE
Program Notes
Shop hints & Safety tips
Christmas Party



OFFICIAL PUBLICATION OF

Lincoln Gem and Mineral Club, Inc.

P. O. Box 5342

Lincoln, Nebraska 68505

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

1984 ELECTED OFFICERS:

President	Howard Taylor, Jr.	910 New Hampshire	Lincoln, 68508	476-3707
1st Vice Pres....	Claude Scott	4917 Normal Blvd.	Lincoln, 68506	488-0739
2nd Vice Pres....	James Null	6515 Fremont	Lincoln, 68507	467-2763
Secretary.....	Vera Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
Treasurer.....	Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member....	Linda Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member....	Jim Stewart	1339 Eastridge Dr.	Lincoln, 68510	489-2867
Board Member....	Marie Taylor	910 New Hampshire	Lincoln, 68508	476-3707
Board Member....	Janet Wright	3715 S. 33rd St.	Lincoln, 68506	488-1884

NOMINATING COMMITTEE -- 3 years: Jim Parks, Ervin Marshall
2 years: Richard Haney, Wilfred Wittman
1 year: Vera Lyman, Frank Rule
Roger Pabian, Chairman

LONG RANGE PLANNING AND BY LAWS COMMITTEE:

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

STANDING COMMITTEE CHAIRPEOPLE:

Calling.....	Marie Taylor	Membership.....	Linda Parks
	Phyllis Parks, Marie Wells	MWF Liaison.....	Marie Taylor
Education/Publicity...	Roger Pabian	Programs.....	James Null
Historian.....	John & Lillie Lewis	Scholarship.....	Marie Taylor
Hospitality.....	Susan Taylor	1984 Rockhound-of-yr..	Roger Pabian
Housing/Property.....	Claude Scott	1984 Annual Show.....	Roger Pabian
Junior Activities.....	Ron McColery	1985 Annual Show.....	Vera Lyman
	Janet Wright	Christmas Party.....	Marie Taylor
Librarian.....	Jim Parks		

AUDITING COMMITTEE 1983.....Virginia Green, Vera Lyman,
Ervin Marshall, Phyllis Parks, Treas.

PICK & SHOVEL STAFF:

Editor.....David Heffelbower 1819 Washington, Lincoln, NE 68502
Asst. Editor....Vera Lyman 420 N. 56th St. Lincoln, NE 68504 (NAOESCI)
Sunshine Corner..Susan Taylor
Reporters.....Julius Young, Roger Pabian, "CLUB MEMBERS"

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.

GENERAL MEETING: NOTE CHANGE OF MEETING DATE!.

Saturday, November 17th, 1984
7:30 P.M. in the Columbus Room,
Nebraska Center, 33rd & Holdrege.

JUNIOR MEETING: Saturday, Nov.17th, 1984 7:00 P.M.
Columbus Room, Nebraska Center

PROGRAM: "Labradorite" by Nan Lindsley Griffin
"Award Procedures in Awarding
NE Academy of Sciences Scholarships"
by Dale Rathe

CHANGE OF DATE → PLEASE NOTE THE CHANGE OF DATE!

BOARD MEETING: Thursday, December 6th, 1984
7:30 P.M. at the Taylor home
910 New Hampshire

Please plan to attend; in addition to the excellent program, I wish to remind you that the November meeting is slated to be the election of officers for 1985. Editor's note.

* * * * *

NOMINATING COMMITTEE REPORT

The Nominating Committee met at Nebraska Hall on Wednesday evening, September 13th at 7:30 P.M.. The following committee members were present:

- Roger Pabian, Chairman
- Ervin Marshall
- Wilfred Wittman
- Jim Parks
- Vera Lyman

The Committee is presenting the following slate of nominees for 1985 office:

- | | |
|--------------------------------|---------------|
| President | Claude Scott |
| First Vice President | Roger Pabian |
| Second Vice President | Linda Parks |
| Secretary | Vera Lyman |
| Treasurer | Phyllis Parks |
| Board of Directors (need four) | Marie Taylor |
| | Janet Wright |
| | Jim Stewart |
| | Mark Mercier |

Respectfully Submitted:

Roger Pabian, Chairman

Greetings from the Sunshine Corner

Nature is painting for us, day after day, pictures of infinite beauty if only we have the eyes to see them.

- John Ruskin

Hope everyone gets to enjoy a true
Nebraska autumn!



Suze Sunshine

Christmas Party Report

Plans have been made to hold our annual Christmas party on December 8th. It will be held at the Nebraska Center in the Columbus Room (same room as last year). Dinner will be served at 6:30 P.M. The menu is:

Hickory Smoked Ham with Fruit Sauce
Candied Yams
Whole Kernel Corn
Tossed Salad
Roll and Butter
Apple Pie
Beverage

Price of the dinner is \$ 6.25. Contact Phyllis Parks for your reservation. The cut-off date will be December 1st.

A slide program has been scheduled and will be announced at the dinner.

We will have a gift exchange for those who are interested. Please bring a "rock-hobby" related gift with a \$ 3.00 value. Please mark it for a man or woman.

Christmas Party Committee
-Marie Taylor
-Susan Taylor

PRESIDENTS MESSAGE

I hope that everyone enjoyed our October meeting and Halloween party. From what I saw, everyone was having a good time. In response to a question that I was asked several times, we are not changing the location of our meetings. The officers of the club decided that a meeting in the park would be a fun change from our regular meetings.

Our November club meeting is the most important one that we will hold all year long. This is when we will elect the people who will manage our club during 1985. The November meeting has been moved ahead to November 17th because of the Thanksgiving holiday weekend. Mark your calendar so that you will be sure to be there. A very interesting program has been scheduled for your enjoyment.

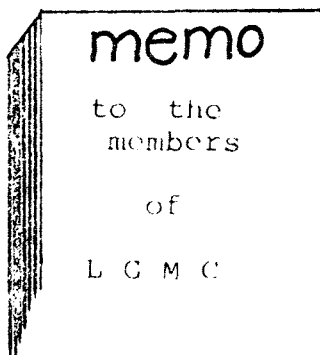
The annual Christmas Party has been planned for December 8th. This is the last time that we will meet before the party, so be sure to sign-up.

Club dues are due on January 1, 1985 and become delinquent on January 31, 1985.

I want to take this opportunity to wish all of you a very
HAPPY THANKSGIVING!

See you at the November meeting.

"Jim"



* * * * *

Claude Scott is attempting to get an up to date inventory of all the Club properties. If you have any properties in your home, please contact Claude at 488-0739, or just drop a post card to him at:

4917 Normal Boulevard, 68506

THANK YOU

Hints:

HOW TO HIDE A CRACK:

The secret of hiding fractures in a cab with epoxy is to shape your stone and semi-polish it. Heat the stone to 200 degrees in an oven. Mix epoxy and apply it to one end of the crack and work toward the outside of the cab so that the air in the fracture is driven out and the resin now replaces it. You will notice that the epoxy becomes very fluid when it touches the hot stone, and it flows right into the crack. Put the stone back into the oven for twenty minutes for the epoxy to harden. Scrape off all the surplus and proceed with your final polish.

-via THE SIOUXLAND GRIND, ARROWHEAD NEWS and others

POLISHING:

No doubt you have heard that it is better to polish certain stones at a slower speed. If you do not have a speed control device on your polisher, just work toward the center of the disc. What we are concerned about is "surface speed". Remember your lap surface, in one complete revolution, at 2 inches from the center, will travel 6.28 inches; at 8 inches, 25.12 inches. Use the center for a slower polishing speed and the outer surface for fast polishing speed.

from G. I. NUGGET, via OREGON ROCKHOUND and THE GLACIAL DRIFTER

10WAYS TO GET RID OF UNWANTED ROCKS FROM LAST SUMMER'S COLLECTING

1. Fix the chuck holes in your driveway.
2. Throw them at bill collectors and door-to-door salesmen.
3. Take them into club displays and leave them.
4. Donate them in grab bags.
5. Put them in your tumbler with a double dose of coarse grit and forget them.
6. Slip them into your competitor's case when no one is looking.
7. Throw them over the fence into your neighbor's rock garden.
8. Fix up a large label, "This gem material insured by Pinkerton" and leave them unwatched somewhere.
9. Fill up the trunk of your with them to help you get through the winter snowdrifts, and then next spring take them back where you got them for other collectors.
10. BEST OF ALL--DON'T TAKE TOO MANY HOME IN THE FIRST PLACE.

from SCRIBE via ROCK RAMBLINGS & NUGGET NEWS

LINCOLN GEM & MINERAL CLUB - General Meeting - Oct. 27, 1984

Meeting was called to order by President, Jim Taylor Oct. 27, 1984 7:30 P.M. at the Van Dorn Park Shelter House. He announced that this meeting was coordinated by Janet Wright. The Junior members attended this meeting dressed as "MINERALS". Their outfits were excellent.

President Taylor also complimented Dave Heffelbower on the excellent job as editor on his first issue of the Pick & Shovel. Keep up the good work, Dave!

Minutes of the Sept. meeting were approved as printed with motion made by Wilfrid Wittmann, 2nd Bev Rueter. Motion carried. Treasurer's report was approved as printed with motion by Helena Baegl, 2nd Dave Heffelbower. Motion carried.

Hospitality Chairperson Susan Taylor announced that 45 Adults, 7 Juniors and 5 guests were present. Guests were as follows:
Shirley & Bill Rockel (parents of Kevin Schwartzman)
Billie & Holly Heffelbower (Dave's family)
Emma Baegl (sister of Helena)

CHRISTMAS PARTY: Report given by Marie Taylor

The annual Christmas Party will be held on Dec. 8, 1984, 6:30 P.M. at the NE Center, Columbus Room. The cost will be \$ 6.25 with the Club picking up tax and gratuity for members. Reservations and payment must be in to Phyllis Parks by Dec. 1. There will be an excellent program and also gift exchange. A show of hands indicated approximately 40 members interested in attending. Complete details of party on p. 2 of Nov. PICK & SHOVEL.

SHOW REPORT:

Show Chairperson, Vera Lyman indicated a Show Committee Mtg. would be held on Monday, Oct. 29th at 7:00 P.M.

DELEGATE'S REPORT:

Irl Everett reported on the Delegate's Meeting at the MWF Show in July. He indicated other clubs really praised LGMC and our Shows. (Full delegate's report in Oct. Pick & Shovel)

Irl donated a number of books to the Club Library. Full listing will be in Dec. Pick & Shovel.

ALL-AMERICAN:

Florence Lueninghoener presented the Club with Certificate from AFMS for participation in 1983-84 All-American Club contest.

NO OLD OR NEW BUSINESS:

Announcement of Nov. Meeting moved to Nov. 17th due to Thanksgiving and Board Meeting to Wed. Nov. 7th due to previous commitment.

Excellent program by Irl Everett - "Carlsbad Caverns"; followed by refreshments of cider and cookies.

Respectfully submitted, Vera Lyman, Secretary

SHOW COMMITTEE REPORT

The '85 Show Committee met on Monday evening, October 29th, at 7:00 P.M. to begin basic planning for the 1985 annual Show. Floor plans, publicity, recognition, programs, etc. were discussed.

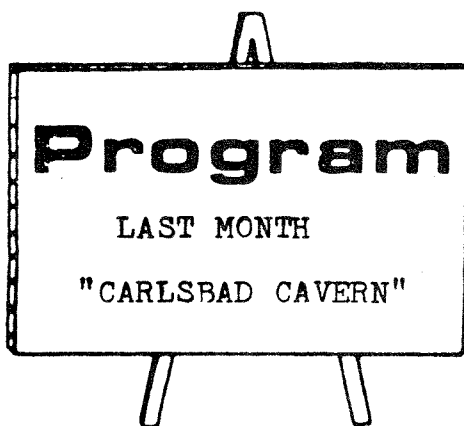
From all indications, each and every member will be called upon to help in one way or another in order to make this another successful Show.

Set-up committees, tear-down committees, ticket sales, and many others will require a great deal of volunteers. Please be ready to say "YES" when called upon for assistance.

There will be another Show Committee meeting near the end of November to confirm some preliminary ideas, and to make more definite plans in some areas.

Your '84 Show Chairperson
Vera Lyman

* * * * *



At our October General Meeting, Irl Everett presented an excellent and very interesting slide program on Carlsbad Cavern National Park in New Mexico.

The cave was discovered when bats flew out of the cave in search of food.

The cave is very large and filled with stalagmites (formations up from the floor) and stalagtites (formations

down from the ceiling. The cavern passageways are filled with many of these beautiful stalagmites and stalagtites. The first stalagmite shown was called "Rock of Ages". A stalagtite called "Lion's Tail" required no imagination. It appeared very real.

Two of the formations which seemed most outstanding to Irl were called "The Queen's Draperies", (absolutely breathtaking) and "Totem Poles", (close to 60 feet tall, in my mind).

There's no way to describe the beauty of this cave. If you ever get close, be sure to stop and see it! (quote)

He closed the program with several slides of the Aurora Borealis! (northern lights) Fantastic!

THANKS, Irl, for a wonderful program.

This article from the AFMS Newsletter reminded me of the many "ifs" that occurred to me also during my tenure as Editor of the Pick & Shovel. I felt it would be an excellent reminder for Club members, and perhaps refresh some ideas for them in assisting our new Editor.

editorial comment

In my eight years of editing I have finally (well....almost) accepted a few facts:

- IF an editor does not receive reports and/or articles from those persons knowledgeable in a specific subject, she or he cannot create an effective and complete publication.
- IF an editor does not receive reports and/or articles within a set deadline (such as was the case in this issue), the materials cannot be edited, typed, laid-out, pasted-on, proofread, printed, mailed out, or received by the recipient on the first day of the current month.
- IF printing company does not work on your project immediately (as soon as delivery to their office of camera-ready issue) due to prior scheduled business commitments, the newsletter will definitely be received very late by recipients.
- IF a publication is not received by recipients on the first few days of each month, some of the contents of the issue will not be current, and the publication will lose its effectiveness.
- IF after bulletin has been received by recipients (usually 2 issues to each club, plus subscribers) and the CLUB PRESIDENT and/or the CLUB N/L EDITOR fail to inform club members either at the general monthly meeting or in the club's newsletter of regional or national federation activities and services available, then the purpose of the federation newsletter is wasted. The hours spent by the officers and committee chairmen who donate their valuable time submitting reports and/or articles are futile; the hours of labor by those persons compiling all the contributions into an informative and appealing publication are also wasted, and the line of communication is broken.
- IF after flipping through the pages of the next federation or club publication you are dissatisfied with its contents or presentation, YOU are the perfect person to DO SOMETHING towards improving it by SUBMITTING YOUR ARTICLE OR REPORT to the editor as soon as possible. WE are all responsible for creating the most enjoyable and effective clubs, federations, and newsletters.

I thank you for your support (those of you who submitted material and encouragement throughout my tenure as editor), and I implore that you continue to SUPPORT ALL YOUR EDITORS (definitely SUPER V.I.P.s) on all levels - local, regional, and national.

W. Gonsky

BLACK HILLS' WIND CAVE

The Lincoln Gem and Mineral Club's October 27 monthly meeting at Van Dorn Park had a delightful illustrated program by our prominent, long time member, Irl Everett, describing New Mexico's Carlsbad Caverns. Coincidentally Omaha World Herald's Sunday, October 28 Entertainment Section, Pages 20-21, featured South Dakota's Wind Cave. Having visited both of those interesting places, my November subject will be on the latter. (Pick and Shovel, Jan. 1983, pages 7,8,9, carried my article, Caves and Caverns)

I shall mention a few items from the World-Herald, and tell some of my own memories of the Wind Cave. It was discovered by a cowboy in 1881. He had stopped to rest near the small, natural opening to the cave, and observed a mysterious wind blowing across the area. Stories disagree on whether the wind was going in or out of the cave. It could have been either way, depending upon local atmospheric pressure at that time.

My earliest visit to Wind Cave was on September 1, 1921, and memory favors the story that indicated the cowboy's hat was sucked into the small opening by the freak wind. The volume of cave air-space is known to be so immense that air rushes into the opening when outside pressure is high, and pours out of it during lower atmospheric pressure.

Indians were mystified by the phenomenon, and some believed that the bison, the Indians' sacred source of food and other necessities, were blown out of the hole by the gods. They had no ideas about the whole process, and neither did the early Black Hills settlers, none yet air pressure-wise! (No one carried a barometer or an altimeter in his kit.)

Annually, millions of people pass through the Wind Cave National Park, going to and from other Black Hills attractions, such as the Mt. Rushmore four faces. Few of them stop to learn why the area bears the name of a cave. It had already been a stagecoach stop for passengers going through the "wild" Black Hills. In 1903 it was the first cave given a National Park title. There are newly discovered parts to it, made known by cave explorers.

Most large caves and caverns have much uncharted spaces and passageways. Not all parts known are open to tourists and unskilled visitors. It is said that Wind Cave "has more than 40 miles of mapped passages, and still another 200 tunnels unexplored, all beneath an area of just one square mile." The formation is still enlarging below!

The total air volume of the cave is enormous. Nature requires many hours of time to adjust the air pressure within the cave to outside atmospheric changes; hence the character of Wind Cave.

- continued

BLACK HILLS' WIND CAVE - continued

Experts have estimated the total underground air volume involved in the adjustment to be about 2 billion cubic feet. Some believe only about two percent actual area of the cave has been found. I do not know why all large caves or caverns do not have the same air movement phenomena. There may be multiple outlets or other factors not yet understood. The problem is puzzling, but the Indians probably said "no problem" about bison bodies; referred to in a previous paragraph. The total cave volume is a somewhat 3-dimensional maze, probably one of the world's most complex.

The reason why all cavities in the entire complex are not yet explored or mapped is obvious. Many passageways in most large caves are not easily negotiated by the slimmest spelunker, or by ardent rockhounds.

Wind Cave's guides are well-trained and adapted to the work. Visitors are warned about claustrophobia and heart strain. They must be able to stand the 53°F constant temperature. Tours may be had of different lengths and times, some only $\frac{1}{2}$ mile long, with no "belly-crawl" segments.

"There is even a twice daily, reservations only, old fashioned tour, during which visitors are given candles so they can wander through the curving, high-walled passages and discover them and their colors from the same vantage points with the same light as the original explorers". The guides on some tours may briefly turn off the hidden lights to experience total darkness.

On my first trip through Wind Cave, in 1921, there were no electric lights, no elevators, no refreshments; and only one guide for a large group of people; a few of whom were supplied with candles. The guide carried a gas lantern and rolls of magnesium ribbon to burn and light up special features. There were no beepers, no pocket radios, no CB's, no computers. Most visitors had come in Model-T flivvers over unpaved roads. Times have changed!

On that first trip I accompanied about 7 young people (all cousins). Some were from Oakland, Nebraska, but most from Chadron; Prof. E. P. Wilson's daughters. The car was a large, 1915 Buick, 7 passenger open model. Returning to Chadron that night we found a flash flood had blocked the White River bridge, making passage impossible. We stopped, then loosened the car top from the windshield, lowered it over our heads, for warmth and waited until the water subsided next morning, and arrived at the Prof. Wilson home "safe and sound," relieving the girls' worried parents.

Thus my first cave trip, not counting Lincoln's Robbers Cave, ended happily.

- Submitted by J.D. Young



.. JUNIORS.

MY SUMMER VACATION

This summer our family took a Nebraska vacation. We visited Fort Robinson, where we took a field trip with Dave Nixon from the University of Nebraska. He took us to a pasture and let us collect rocks and fossils. It was very interesting because he explained to us about the rocks we found. He took us to several different places including the mammoth site in Hot Springs, South Dakota.

On our way home we stopped and he let me and another boy borrow his rock hammers and do some fossil collecting. We got some neat things.

The part I liked is going to Toadstool Park. We collected a lot of neat things; my dad found the jaw bone of a prehistoric squirrel, but he couldn't keep it. Dave said that it would go in the museum.

Garen Miller

safety

Protect yourself from flying chips while using your handheld chisel. Use a clean plastic lid: make an X slit in it, insert chisel through the slit. The cover will act as a shield so the chips can't fly and hit your eyes when you hit the chisel with your rock hammer.

from COUNTY PROSPECTOR via FLINT
ROCK AND GEM CLUB 9/84

Remove any splay from the handle of your chisel by grinding a radius. This will prevent particles of metal from spalling off your chisel when it is struck by the hammer: those metal chunks come off with great speed and can penetrate the skin. Ed note

YOU DON'T NEED A HARD HAT, IF YOU PASS THIS SIMPLE TEST

An LMSC safety engineer has figured out a way to do without hard hats- provided your head conforms to certain standards. The following test determines your eligibility.

1. You will receive a 24 hour water immersion test. Maximum permitted absorption is 0.5 percent by weight.
2. Next comes the impact test. While in a horizontal position with your head on a steel plate, an eight pound steel ball will be dropped on your head from a height of 15 feet. You must suffer no damage.
3. Your head will then be subjected to a variety of acids, solvents and oils, and suffer no damage of deficiencies.
4. A propane torch will be used to determine if your head is fire resistant. If only slow burning, you will receive an A or B rating. If holes appear in your head, a C or D rating will be awarded.
5. In the final test, your head must suffer 2200 volts AC 60 Hz for three minutes, with leakage currents not exceeding nine milliamperes.
6. All tests must be conducted at a variety of temperatures ranging from minus 20 to plus 140 degrees Fahrenheit.

If you feel you cannot qualify, do not despair. Although not as attractive as the way you wear your hair, the hard hat does protect you from all the above.

from LOCKHEED SOUTHERN STAR, via
THE MOUNTAIN GEM and THE
GLACIAL DRIFTER

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 Smitz, 10807 Mary Ann, Zealand, MI 48434. All subscription orders should be sent to Parrot Printing Service, 2125 Forest Ave., Des Moines, IA 50311.



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NOVEMBER 1984 - Issue No. 248

BULLETIN

winners announced



CONGRATULATIONS TO ALL 1984 WINNERS AND TO ALL WHO ENTERED THE CONTEST. ALL ENTRIES WERE GIVEN GRADES ABOVE 70.

MINI BULLETIN - 1st - THE SHIELD, Joseph R. Ohm, Editor.

Akron Mineral Society, Akron, OH
2nd - MASTODON TRACKS, Gert Larson, Editor. Badlands Sandhills Earth Science Club, Mission, SD
3rd - WORTHEN WORTHY NOTES - Irma Bradley, Editor. Worthen Earth Searchers of Hancock County, Carthage, IL

CERTIFICATES - 4th - THE ROCK, Rich Day, Editor. Sauk Valley Mineral Club, Dixon, IL

5th - AGATEER, Rick Maske, Editor. Madison Community Center Lapidary & Mineral Club, Madison, WI
6th - ROCK TALK - Ida Webb, Editor. Richfield Mineral Club, Richfield, MN

SMALL BULLETIN - 1st - THE BEACHCOMBER, Gloria Suess, Editor. Lake County Gem & Mineral Society, Waukegan, IL

2nd - THE ROCK RAMMER, Mildred E. Heckert, Editor. Elgin Rock & Mineral Society, Elgin, IL
3rd - ROCK TABLET, Carol Anderson, Editor. Neville Public Museum Geology Club, Green Bay, WI

CERTIFICATES - 4th - SMOKE SIGNALS, Delores Bates, Editor. Blackhawk Gem & Mineral Club, East Moline, IL

5th - THE GLACIAL DRIFTER, Ruth Beauvais, Editor. Grand Rapids Mineral Society, Grand Rapids, MI
6th - FLINT FLASHES, Helen L. Smith, Editor. Licking Rock & Mineral Society, Newark, OH
7th - THE GEMROCK, Betty S. White, Editor. Independence Gem & Mineral Society, Independence, MO
8th - SUMMIT GEM, Grace White, Editor. Summit Lapidary Club, Cuyahoga, OH
9th - PEBBLE PUSHER, Ruth Harvey, Editor. Coulee Rock Club, La Crosse, WI
10th - THE PYRITER, Lyle Voas, Editor. Dallas County Rock Club, Adel, IA

LARGE BULLETIN - SPECIAL AWARD - GEM CITY ROCK NEWS, Rita C. Hagerbaumer, Editor. Gem City Rock Club, Quincy, IL

1st - THE LITHNICS, Evelyn Rohn, Editor. Richland Lithic Lapidary Society, Mansfield, OH
2nd - OZARK EARTH SCIENCE NEWS, Jean Zahnen, Editor. Ozark Earth Science Club, Mountain Home, AR
3rd - ROCKHOUND NEWS, Rosa M. Bord, Editor. Heart of Wisconsin Gem & Mineral Society, Wisconsin Rapids, WI

CERTIFICATES - 4th ESCOMO, Shirley Uebel, Editor. Earth Science Club of Missouri, Brentwood, MO

X - LARGE BULLETIN - 1st - THE OPAL, Lois McMahon, Editor. West Suburban Lapidary Club, Elmhurst, IL

2nd - THE TRILLOBITE, Margaret M. Pearson, Editor. Wisconsin Geological Society, Milwaukee, WI
3rd - CRYSTAL CLUSTER, Mary Ann Gaydos, Editor. Des Plaines Valley Geological Society, Des Plaines, IL

CERTIFICATES - 4th - THE TULLY, Betty Van Erden, Editor. Park Forest Earth Science Club, Park Forest, IL

5th - EARTH SCIENCE NEWS OF NORTHERN ILLINOIS, Jean Reynolds, Editor. Esconi, Downers Grove, IL
6th - THE GEODE, Ted Marikos, Editor. McDonnell Douglas Gem & Mineral Society, St. Louis, MO
7th - THE JASPILITE, Helen Johnson, Editor. Ishpeming Rock & Mineral Club, Marquette, MI
8th - THE PICK & SHOVEL, Vera Mae Lyman, Editor. Lincoln Gem & Mineral Club, Lincoln, NE
9th - 3M ROCKHOUND NEWS, Aleene Wistrom, Editor. 3M Prospectors Club, St. Paul, MN

NEW OR FIRST TIME EDITOR - 1st - ROCKY READER, Frances Bush, Editor. Toledo Gem & Rockhound Society, Toledo, OH
2nd - ROCK DUST, Gladys Holliday, Editor. Sioux Empire Gem & Mineral Society, Sioux Falls, SD
3rd - THE PETOSKEY STONE, Florence Rescoe, Editor. CAI Family Lapidary Club, Drayton Plains, MI

CERTIFICATES - 4th - NEWSLETTER, Clena V. Gibson, Editor. Flint Rock & Gem Club, Flint, MI

5th - ROCK RAMBLINGS, Marilyn Lord, Editor. Lakeshore Mineral & Lapidary Society, Mentor, OH
6th - TONKA TAILINGS, Fran Krogstad, Editor. Minnetonka Mineral Club, Minnetonka, MN

SPECIAL PUBLICATIONS - 1st - 30TH ANNIVERSARY ISSUE - Ishpeming Rock & Mineral Club, Helen Johnson, Editor of the Jaspilite
2nd - NEVILLE PUBLIC MUSEUM GEOLOGY CLUB (special edition), Charles Enigl, Author, Green Bay, WI
3rd - OHIO FIELD TRIPS, Frank Markert, Editor. Akron Mineral Society, OH

CERTIFICATES - 4th - THE TRILLOBITE - SPECIAL EDITION, Margaret M. Pearson, Editor. Wisconsin Geological Society, WI

5th - DES PLAINES VALLEY GEOLOGICAL SOCIETY - 25th ANNIVERSARY, Josephine Hay, Author, Des Plaines, IL

JUNIOR ORIGINAL ARTICLE CONTEST - 1st - MY DREAM FOSSIL, Tanya Esmond, Author. Published in Rock Rammer, March 1983, Elgin Rock & Mineral Society, Elgin, IL

ADVANCED ADULT ORIGINAL ARTICLE CONTEST - 1st - COMPUTERIZED MICROHUNTS, Esther Behnke, Author. Published in Esconi, February 1983, Earth Science Club, Clarendon Hills, IL (Same article, with one different paragraph entered by Crystal Cluster April 1983, Club will receive a certificate)
2nd - MORE TOOLS FOR FIELD TRIPS, Jean Reynolds, Author. Published in Esconi, December 1983, Clarendon Hills, IL
3rd - THE SIMPLE AND WONDERFUL JEWELERS SAW, Dick Rowe, Author. Published in Smoke Signals, November 1983, Blackhawk Gem & Mineral Club, Rock Island, IL

CERTIFICATES - 4th - ANTARCTIC MINERALS, Dan Muzynski, Author. Published in The Rocky Reader, May 1983, Toledo Gem & Mineral Club, OH

5th - THE THIRD PLANET - EARTH - MILWAUKEE PUBLIC MUSEUM, Jean Reynolds, Author. Published in Esconi, December 1983, Clarendon Hills, IL

6th - GENERAL GEOLOGY AND TOPOGRAPHY OF ILLINOIS, Allen Debus, Author. Published in Earth Science, March 1983, Esconi, Clarendon Hills, IL

THE RULES AND GUIDELINES WERE PRINTED IN THE OCTOBER BEN FOR THE 1985 BULLETIN EDITORS CONTEST. MAIL ALL ENTRIES

...continued next page

BY JANUARY 21, 1985 TO RITA HAGERBAUMER. NO ENTRIES ACCEPTED AFTER JANUARY 31, 1985.

- 7th - FINDING GEMS IN BEDFORD, PA, Carl and Joanne Malnar, Authors. Published in Rock Ramblings, September 1983, Lake Shore Mineral & Lapidary Society, OH
- 8th - WHAT IS A MINERAL AND WHAT IS A ROCK?, Frank Schrichte, Author. Published in the Fort Hamilton Gems, November 1983, The Fort Hamilton Gem & Mineral Society, OH
- 9th - MINER'S COMMENTARY, Dr. Gerald Smith, Author. Published in the Flint Rock & Gem Club Newsletter, February 1983, Flint Rock & Gem Club, MI
- 10th - FUNCTIONAL MORPHOLOGY OF THE ECHINOIDS, Allen A. Debus, Author. Published in Earth Science News, October 1983, Esconi, Clarendon Hills, IL

- ADULT ORIGINAL ARTICLE CONTEST - 1st - WHAT IS A SHOW ALL ABOUT?, Adele Burckle, Author. Published in the Beachcomber, September 1983, Lake County Gem & Mineral Society, Waukegan, IL
- 2nd - DEATH VALLEY PLUME, Fran Krogstad, Author. Published in Tonka Tailings, September 1983, Minnetonka Mineral Club, MN
 - 3rd - FUN AT HERCULES, Harold L. Vanderbilt, Author. Published in The Tully, September 1983, Park Forest Earth Science Club, IL

- CERTIFICATES - 4th - A FIELD TRIP FOR DIAMONDS, Frank York, Author. Published in Fort Hamilton Gems, November 1983, The Fort Hamilton Gem & Mineral Society, OH
- 5th - A JOURNEY ALONG THE YELLOWSTONE, Bob Charbonneau, Author. Published in 3M Rockhound News, November 1983. 3M Prospectors Club, MI
 - 6th - ROCK SWAP REFLECTIONS, Fred S. Farrar, Author. Published in the Mishna Valley Grindstone, October 1983, Mishna Valley Rock Club, IA
 - 7th - THE FIRST 30 YEARS, C. Robert Markert, Author. Published in The Jaspilite, (three installments) 1983, Ishpeming Rock & Mineral Club, MI
 - 8th - MWF CONVENTION AND SHOW AT KALAMAZOO, MI, Ida Webb, Author. Published in Rock Talk, September 1983, Richfield Mineral Club, MN
 - 9th - RICHFIELD MINERAL CLUB POTLUCK PICNIC, Fran Erickson, Author. Published in Rock Talk, June 1983, Richfield Mineral Club, MI
 - 10th - LAPIDARY - AN EVOLUTIONARY ART, George Cihacek, Author. Published in Loup Scoop, May 1983, Loup Valley Gem & Mineral Society, NE

Keep sending the Bulletins to me, Rita C. Hagerbaumer, BEAC 1537 Manor Hill, Quincy, IL 62301

are quite different from the usual Paleo-Indian site. No spear points, fluted or unfluted, were found, but instead pebble tools from fractured river pebbles were found. Grinding stones, extremely rare at Paleo sites, were also found.

Taken from "The Mammoth Trumpet", a new publication specializing in Paleo-Indian research news.

Submitted by Glen R. Hanning, Archaeology Chairperson

The MWF extends sympathy to Beverly Millard whose husband Arthur Millard passed away this summer. Art was the Special Display Chairperson for the MWF.

THE 1985 EDUCATION THRU SHARING PROGRAM IS UNDERWAY NOW!!

The search for the Midwest Federation's 1985 Club Member of the Year has already started. And we ask that you help us find that very dedicated person. Every club has someone who is always there to help out when the going gets rough. Here is your club's chance to show that person that you really do appreciate all their work on behalf of you, your club and the hobby. The 1985 Midwest Federation rules and a sample judging sheet is included in this newsletter. The time to start documenting those activities is NOW!!

Margaret M. Pearson, Chairperson/Education and Education Thru Sharing

SPECTACULAR PALEO-INDIAN SITE FOUND IN CHILE

A new site, with fantastic preservation, dating to 12,500 to 13,500 years ago has been excavated by a University of Kansas team. The excellent preservation at the site was caused by a bog which has buried the site for thousands of years. Among the discoveries were mastadon bones, end scrapers still hafted on wooden handles, wooden mortars with wooden stakes placed around them to prevent them from shifting, and the remains of architectural foundations.

These foundations are most interesting. There are twelve of them, most joined one to another. They are made of cut wooden planks staked in place. Fragments of mastadon hides found against some of the foundations suggest that the structures had wooden frameworks covered by hides. Outside the structures are large communal hearths, and inside the structures small baked-clay charcoal ovens.

Several artifacts have been found which

...continued next column

The object of the AFMS Scholarship Foundation is to accumulate a fund, the income from which is to be used to finance scholarships. The principal cannot be used, hence the usefulness of the fund is perpetual. Whatever is in the fund keeps working year after year indefinitely into the future. The larger it becomes, the more it can do - not only once, but time after time as years go by.

Read the "pink pages" in your 1984-85 MWF Directory to learn more about your Scholarship Foundation. These pages also lists the status of all our Midwest Clubs. You can learn how your club compares with others.

Gifts or contributions to the Fund should be sent to Mrs. Marian Parch, P.O. Box 180, Fountain City, Wisconsin 54629

The next Newsletter will list all clubs who have advanced their Scholarship Status since June 1984.

PATRONIZE YOUR ADVERTISING DEALERS

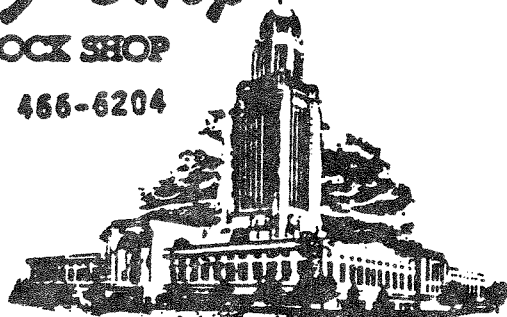
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Advertising by a rock-hobby business or interest is permitted with approval of the Board, at a rate now set at \$15.00 per full page per insertion, paid in advance. 1/2 page \$7.50, 1/3 page \$5.00 1/4 page \$3.75 (min). These ads will be placed throughout the bulletin as space permits.

Subscriptions to THE PICK & SHOVEL are \$5.00 per year mailed.

Dues to LINCOLN GEM & MINERAL CLUB are as follows:

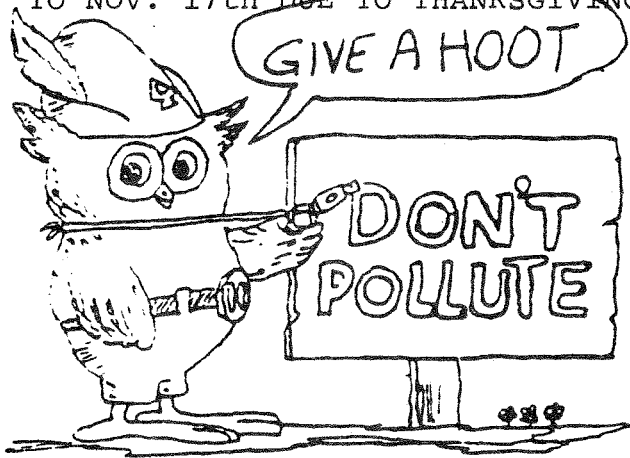
Adult membership fee \$5.00 (age 16 and over)

Junior membership fee \$1.00 (age 12-16)

Family membership fee \$11.00 (husband, wife and all children under 16 - permanent residents of household)

New membership must be approved by the Board, after applicant attends at least one (1) regular meeting of the club, and pay the above dues plus \$1.00 registration fee.

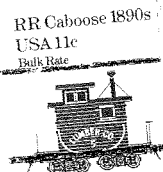
DON'T FORGET--THE NOV. GENERAL MEETING HAS BEEN MOVED UP ONE WEEK TO NOV. 17th DUE TO THANKSGIVING DAY--SEE YOU THERE!!



h.e.l.p.

HELP ELIMINATE LITTER PLEASE!

Lincoln Gem & Mineral Club
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