



CALENDAR



Regular Meeting: Saturday, October 24, 7:30 PM, Antelope Park Shelter, 31st & Sumner Annual Halloween Dessert Supper. Come dressed as your favorite gemstone, mineral or fossil. Club will provide coffee, cups, plates & cutlery and you bring a dessert to share.

Program: ROCK BINGO!!! Bring a prize and have a fun time.

Youth: 7 PM- See YOUTH Page 2 for messages from your leader.

November Meeting Annual Meeting with Election of 1999 Officers and Board of Directors. One week early on 11/21 to avoid Thanksgiving weekend.

Christmas Meeting Sunday December 13, 5 to 9 PM. Installation of Officers for 1999!

**NEXT LGMC SHOW - MARCH 27-28, 1999, Pershing Auditorium
(Our 41st Annual Show)
"REFLECTIONS TO PAST CENTURIES"**

Nearby Shows to Visit

Oct. 15 **ESIC Open House**-10:00 AM to 8:00 PM, Conservation & Survey Div. UNL Earth Science Information Center, Nebraska Hall

Oct. 17-18 **SHOW** Grand Island, NE-GI Earth Science Club,

Nov. 7-8 **SHOW** Kearney, NE.-Fort Kearney Rock Club

Nov. 7, 9 **AM-AUCTION** Palo, Iowa-Materials from collection of Alberta Cray



1998 REGIONAL SHOW SCHEDULE

EASTERN FEDERATION
November 6 - 8
Stamford, Connecticut

CALIFORNIA FEDERATION
July 3-5
Monterey, California

SOUTH CENTRAL FEDERATION
February 28 and March 1
Corpus Christi, Texas

NORTHWEST FEDERATION
June 12-14
Billings, Montana

SOUTHEAST FEDERATION
November 14 - 15
Charleston, So. Carolina

ROCKY MOUNTAIN FEDERATION
October 23-25
Tulsa, Oklahoma

MIDWEST FEDERATION
April 10-11, 1999
Columbus, Ohio

Youth Notes

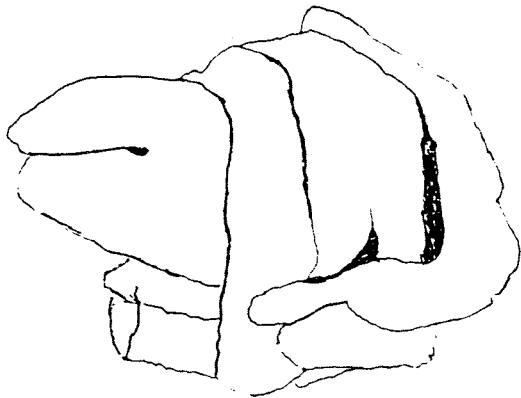
by the youth and Kay Jurgens

October is upon us... referred to many children as Halloween month. The juniors are all invited to bring a friend to our October meeting. Wear a costume that is a rock, gem, mineral, fossil, or is geology-related in some way. We'll have a Halloween party for our junior meeting.

The juniors and their guests worked on our page at the last meeting. We welcome input from all juniors. We will try to allow equal space for all. Ben and Jerry aren't members or guests, but they had some great Halloween activities on their web page.

The Omaha Rock Show was a very educational experience. Strolling through one dealer's area allowed a view at a fulgurite lightning strike from Egypt, fossil crabs from Italy, fossil shrimp from Lebanon, and a dinosaur tooth from the Sahara Desert- I guess it wasn't always dry!

?
by Janelle Jurgens

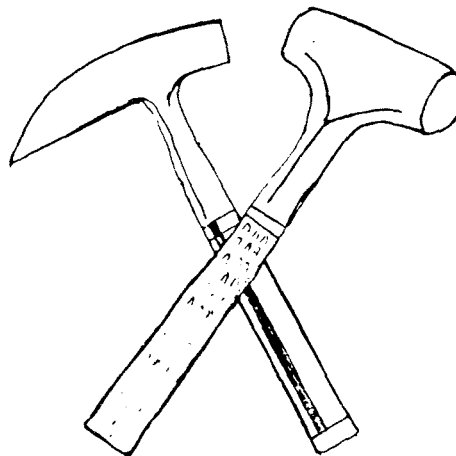


Ropy Lava
...or is it copralite?

Interview of Ken Doe by Danny Kromer

Best find: opalized log
Location: at Keya Paha in a ravine
Most memorable field experience:
Ran into a rattler.

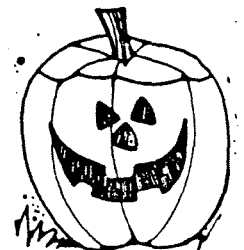
Tools of the Trade by Becky Cooperrider



Ben & Jerry's -- Word Search

SPOOKY - GHOST - CANDY -
MASK - MOON - BOO - BAT - CAT

A	C	Y	U	B	N	H	G	U	D
J	A	M	Q	I	Z	R	B	O	O
S	T	W	V	U	F	U	X	O	B
P	Y	D	O	F	D	X	U	G	T
O	M	A	S	K	Y	K	P	J	A
O	G	H	O	S	T	H	C	Z	Q
K	S	O	X	K	B	A	T	P	M
Y	N	I	E	U	A	C	W	D	O
N	B	C	A	N	D	Y	L	T	O
T	A	J	C	W	T	S	E	F	N





THE PRESIDENT'S MESSAGE

Fellow Club Members

My 'Thanks to the 22 persons who rode the bus to Fremont's Midland College for a very good Field Trip. Sorry so many of you missed it. The head of the Geology Department and our club member Dr. Florence M. Lueninghoener have really established a wonderful display and a great teaching help with 'The Glismann Collection.' Many Thanks to Dr. Gary Carlson and Florence

Remember to support LGMC and attend the Halloween Dessert Supper at Antelope Park Shelter on October 24 . At the same time put Saturday, November 21 on your calendar and make sure we have a quorum for the election of your 1999 Officers and Board of Directors. See the slate prepared by the Nominating Committee. There are several important decisions to be made.

Jerry

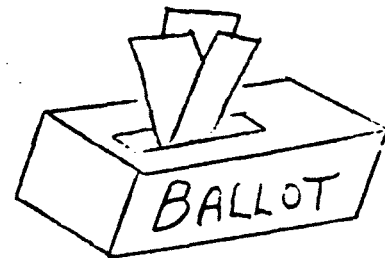
NOMINATING COMMITTEE MEETING

Committee Chairman - Charles Wooldridge, Immediate Past-President
 Committee Members - Roger Pabian Ken Doe
 Vera Lyman Bill Rockel
 Susan Taylor Shirley Rockel

The Nominating Committee met on September 21, 1998 @ 7:30 P.M. at the home of Marie & Susan Taylor.

The following slate of officers for the 1999 Board of Directors is as follows:

President - Ed Ridge
 1st Vice President - Ken Doe
 2nd Vice President - Jim Atkins
 Secretary - Vera Lyman
 Treasurer - Phyllis Parks
 Board of Directors (4 needed)
 Grant Bennett
 Marcia Hamilton
 Kay Jurgens
 Shirley Rockel
 Dave Heffelbower



Each of these individuals were contacted and have agreed to serve in that capacity if elected at the General Election in November.

Thank You to all the individuals who have agreed to serve.

Respectfully,

Charles Wooldridge (Wooly)
 Chairman

September 20, 1998 Field Trip

AWESOME! FANTASTIC! FABULOUS! and TOTALLY COOL! were only some of the superlatives heard as we viewed the Glismann collection of petrified wood and minerals at Midland College in Fremont.

Our hosts were Drs. Gary Carlson, head of the Earth Science Dep't, and Florence Lueninghoener. Dr. Carlson explained how the Glismanns, graduates of Midland College, had spent over 50 years collecting, identifying, and labeling the more than 2000 mineral specimens as well as cutting and polishing the more than one hundred pieces of petrified wood. An information sheet with details on the collection was also distributed to the attendees. Although many museums and colleges wanted the collection, the Glismanns elected to give it to their alma mater. Midland college and all Nebraskans are the beneficiaries of this priceless bequest.

Dr. Lueninghoener, a 30-year member of our Club, whose husband was Dr. Gilbert L. Lueninghoener, a professor of Geology at Midland, very graciously made the arrangements for our visit. We express our sincere thanks to her for her efforts on our behalf. Many of us had the opportunity to visit with Florence and found her to be intensely interested in gem and mineral collecting and very knowledgeable about the field.

One of the tables in the laboratory where we assembled was covered with rock and mineral spheres ranging in size from about one inch to six or more inches in diameter. These were part of a large collection of spheres given to Midland College by Mr. Paul Larmon of Omaha. We were challenged to identify them as their origins were unknown at the time of the gift (1997). Polished rocks of any kind are difficult to identify in any case, and as spheres are even more so. Rose quartz, snowflake obsidian, onyx, and Lake Superior agate were some that were fairly easy, but I'm afraid many more remain to be labeled.

The wood and mineral collections are housed in secure glass cabinets lining the hall adjacent to the Earth Science laboratory. They are also accessible from the lab. for teaching and training purposes.

I was particularly impressed with the petrified wood display. There appeared to be more than a hundred items ranging from 3 to 6-inch slices, to short lengths of branches, and in colors from blacks, browns, and grays to reds and yellows, and even green. All were highly polished. About two dozen different kinds of woody materials were represented with one to six specimens of each. Many varieties of fossil trees and shrubs were included and some seldom-seen woods like myrtle and juniper. One rare specimen, named *Hermanophyton Glismannii*, after the Glismanns, is one of only three known; the second is at Weber State U. in Utah and the third at the Smithsonian where it is not displayed but kept in a bomb-proof vault. A schematic drawing of the fossil was included on the reverse of the handout.

The mineral collection consists of mostly small specimens in individual boxes; all were identified as to name and location. There were many one-of-a-kind specimens as well as multiple specimens of individual minerals. All were excellent representatives of each mineral variety. To examine all of them and read all their labels would take eight to ten hours.

Another case contained additional unidentified spheres, and pen and paper were provided for our best guesses.

After a couple of hours viewing, guessing, and visiting, we were treated to refreshments, courtesy of our hostess. We returned to Lincoln about 5:15 P.M.

For those of you who missed the show, I strongly recommend you visit the collection whenever you have the opportunity.

For the 23 of us who attended, it was STUPENDOUS! INCREDIBLE! UNBELIEVABLE! and FAR OUT!

Ken Doe
Sept. 26, 1998

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - Sept. 9, 1998
 7 P.M. @ Kinkos 48th & Vine St.

The Minutes & Treasurer's report of the previous month were approved with a motion by Shirley R., 2nd by Kay J. Carried.

BILLS: Presented for payment and approval with motion by Vera L., 2nd by Ed R. Carried.

NEW BUSINESS:

Board approved a \$100. stipend to Grant Bennett for attendance as Delegate to MWF Meeting.

President also to ask Grant B. if he is interested in being Club reporter to the Gem Palette.

SHOW: Chairman, Jim Marburger

Jim presented his proposed budget for the 1999 Show. It was approved with a motion by Phyllis Parks, 2nd by Vera Lyman.

Discussion of Sat. Night Supper at Show. Limited number of caterers to Pershing due to fee. Possibility of Club paying the initial fee for someone we desire to cater the supper. Will check options.

The Club will donate \$ 50. to Midland College in honor of Dr. Florence Lueninghoener. Motion was made by Kay Jurgens, 2nd by Shirley Rockel and carried.

There being no further business, meeting was adjourned.

Respectfully submitted,

Vera Lyman

Vera Lyman, Secretary

L.G.M.C. Treasurer's Report September 1998

NBC Checking Balance 8/31/98 3017.88

Receipts:

Family Membership Renewal	27.00	
Suspense-Field Trip Reservation	180.00	
1999 Show Dealer Booths	<u>2000.00</u>	2207.00

Payments:

Printing Sept./Oct. P & S Covers	15.58	
Printing Sept Pick & Shovel	47.44	
Kinko's-Sept. Board Meeting	15.00	
Pkg.Labels Members P & S	10.59	
MWF Delegate Allowance	100.00	
Donation Midland College Geology Dept.	50.00	
Suspense-return reseravation fees	<u>190.00</u>	<u>428.61</u>

NBC Checking Balance 10/01/98 4796.27

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING - Sep. 26, 1998
7:30 P.M. NCCE - Beatrice Rm.

President called the Meeting to order.

Hospitality reported 18 members in attendance, Charlene & David Bingle being new members. Guests were Steve May & Mrs. Beneett.

Minutes as printed approved with motion by Ed R., 2nd by Susan Taylor. Carried.

Treasurer's report approved with motion by Dave H., 2nd by Susan McMahan. Carried.

NEW BUSNIESS:

Grant Bennett gave preliminary report as delegate of the AFMS/MWF Meeting in Houghton, MI. It will be printed in the pick & Shovel. Club was asked to host the 2001 National Show. Give it some consideration.

Photos of Field trip to Midland College to view Glissman collection were being passed around. A report will be given.

SHOW: The 1999 Show Budget was approved as proposed with a motion by Grant Bennett, 2nd by Dave Heffelbower. Carried.

NOMINATING COMMITTEE REPORT:

The nominating committee presented its new slate of Officers for the next year. (Copy of same elsewhere in Pick & Shovel.)

The President called for additional nominations from the floor for each office and received none. The slate will be voted on as presented.

NO COMMITTEE REPORTS

FIELD TRIPS: Discussion of future Field trips. Possible trips by bus or van to local shows as Grand Island, Kearney, etc.

Nest year perhaps to Bancroft - Neihardt Center; Ashfall State Park.

Board Meeting to be held at Kinkos Conference Rm. 48th & Vine St. Oct. 7, @ 7:00 P.M.

Respectfully submitted,

Vera Lyman
Vera Lyman, Secretary



Our door is open!

ESIC Open House

Earth Science Information Center

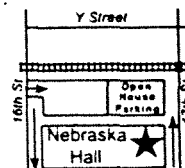
October 15, 1998 10:00AM - 8:00PM

Conservation and Survey Division - UNL

Did you know....

...the Conservation and Survey Division serves as Nebraska's only U.S. Geological Survey Earth Science Information Center (ESIC)?

...ESIC provides topographic, state, U.S. and world maps, teacher resource materials, soil surveys, satellite imagery and aerial photography, digital data and much more?



Come see what ESIC has for you!

Displays, resource materials, information packets, door prizes and more!

Book Review

South Dakota's Fairburn Agate, by Roger Clark. Available from Silverwind Agates, 800 North Lynndale Drive, Appleton, WI 54914, \$19.95, \$22.45 postpaid. ISBN 0-9664640-0-1

This is a handsome little volume, the first three chapters of which deal with how the author first became interested in the Fairburn Agate, what encouraged him to develop a collection, and how he learned about searching for and finding examples in the Badlands of South Dakota.

The book has a rather short text that is supplemented by numerous colored and black and white photographs of the highest quality that were made by the author's wife, Mary Jane. The numerous illustrations are very helpful in showing the variation in these agates. There is an historic review of some of the early collectors and collections. Unfortunately, Charlie Bass of Jay Em, Wyoming, who probably had the best understanding of these agates had passed on several years before Clark became involved with agates and Clark was unable to include many of Bass' insights.

In spite of the lengthy introductory chapters, Mr. Clark did not really define the scope of his work. There is an underlying desire to consider the "Fairburn Agate" as a member of a larger, more inclusive population agates but this appears to be thwarted by considerations that these agates are unique and not related to any others known.

One of Clark's basic assertions is that these agates have been found over a much larger area than previously recognized. This assertion is probably true. Unfortunately, Clark was unable to fully demonstrate his claim because of an unfamiliarity with much of the published literature that deals with agate bearing rocks of late Pennsylvanian and early Permian ages that are exposed in the Front Range from northern Colorado to central-eastern Wyoming, the Hartville Uplift in the Guernsey/Glendo areas of Wyoming, and the Black Hills of South Dakota. The texts and correlation charts in these papers would have shown that the "Fairburn Agate" is not an entity that is restricted to one bed-one age distribution and that such parent materials as "Tepee Canyon Agate" gave rise to the "Fairburn Agate" as well as "Fairhills," "State Park" and other locally named agates.

Clark rightfully determined that the agates were derived from older deposits elsewhere but chose to consider only the Minnelusa Formation of Pennsylvanian age in the Black Hills as the only source, whereas the underlying Pahasapa and Englewood limestones and the overlying Minnekahta limestone and Opeche Formation contain chert beds that have yielded agates. Clark did not consider the lateral extent of these stratigraphic units or correlative units that extend into the Hartville Uplift and Front Range of Wyoming and Colorado. The Wyoming and Colorado strata have produced some very fine fortification agates and drainages in the ancient White and Niobrara River systems carried much of the sediment derived from these sources to the north and then to the east where it was distributed over much of northeastern Wyoming and western South Dakota and Nebraska.

Clark recognized that some of the source agates (Late Paleozoic Limestones) were reworked into sediments of Cretaceous age (and possibly as old as Jurassic) even before they were reworked into the gravels of Oligocene age. It appeared that he backed off from really using these *prima facie* observations for demonstrating his case. He also recognized that these agates may be found in much younger sediments (Pleistocene and Holocene) and my own experience shows that they have been found in the Lodgepole Creek, Pumpkin Creek, North Platte and Niobrara and White drainages. In this section, however, some confusion develops because all of the different ages of strata in which the agates have been found seem to become "lumped together" as a single entity.

The book closes with a chapter describing agate formation theories. This chapter leans too heavily on two works: Landmesser (1984) and Pabian and Zarins (1994) while the works of Macpherson (1989) and Moxon (1996) are omitted as are a number of easily attainable shorter papers that cover the problem.

There are a number of typographic (spelling) and copy errors in the text and these are distracting. Mr. Clark has made some very interesting observations and has brought to light a number of little-known areas from which these agates have been found. I would encourage him to follow this work with further editions but also to write and re-write and have an outside reviewer look at the manuscript. This would be of great benefit especially to the non-geologist who reads this volume.

Regardless of my criticisms from the geological point of view, I recommend the book to the student and collector of agates of any kind. It marks a plateau in the general understanding of these gems and Mr. Clark presents some challenges to a staid and conservative group of collectors nearer the source areas to re-examine their materials and evidence and develop a better explanation for the origins of these rare and beautiful stones.

Roger K. Pabian

ODDS
'N'
ENDS

EVER WONDER ... when you were in the super market why you never see "cashews" with shells? Well, cashews don't have shells because they are seeds of a kidney-shaped fruit of a tropical American tree of the sumac family.
From M. M. S. CONGLOMERATE.

We were most happy to Welcome new member Charlene Bingell to the club at the September meeting. She attended with her husband and daughter. They are very enthusiastic and really are looking forward to some field trips. Lets do our best to make them enjoy the club.

On another note--former club member Mrs. Hazel Howlett of 4230 W St, phone 464-2338, has a lot of her late husband's rocks that she urgently wishes to dispose of. If you have any interest in acquiring please call her and go over prepared to make an offer. The Howlwts were very active back in the late 70's and 80's.

Phyllis and Jim Parks are tired as well as retired and are anxiously hoping for some dedicated club members to assume several of the duties they have enjoyed performing for the club--such as taking care of the club coffee pot and related items and bringing to any meetings where we are privileged to serve coffee. We already have a volunteer to make sure the Shelter Key is picked up for any meetings at Park facilities. We'd also like to start turning over the inventory of club properties and storage facilities in the very near future.

1998 ELECTED OFFICERS

President:	Jerry Moore, 2305 So.35th St.	Lincoln NE 68506	489-4184
1st Vice President	Edward Ridge, 2507 A Street.	Lincoln, NE 68502	477-8469
2nd Vice Pres.	Shirley Rockel, 1134 W. Avon Lane	Lincoln, NE, 68505	464-3059
Secretary:	Vera Lyman, 420 N. 56th St.	Lincoln, NE 68504	464-6089
Treasurer:	Phyllis Parks, 2435 So. 19th St.	Lincoln, NE 68502	476-6798
Board Member:	Jim Atkins, 1333 So. 15, Apt. 1	Lincoln, NE 68502	438-2434
Board Member:	Kenneth Doe, 925 El Avado Ave.	Lincoln, NE 68504	466-4877
Board Member	Marcia Eddy-Hamilton, 4903 Hillside St.	Lincoln, NE 68506	489-0716
Board Member	Kay Jurgens, 14421 Danvers St.	Waverly, NE 68462	786-2756

Nominating Committee

3 years	Roger Pabian Bill Rockel
2 year:	Shirley Rockel Kenneth Doe
1 year:	Vera Lyman Susan Taylor
Chairman:	<i>Immediate Past President</i>

Long Range Planning & By-Laws Committee

3 years	Charles Wooldridge Kevin Schwartman
2 Year:	David Heffelbower Jim Parks
1 Year:	Vera Lyman Roger Pabian
Chairman:	<i>Immediate Past President</i>

Standing Committees

Membership:	Shirley Rockel	Programs:	David Heffelbower
Education:	Roger Pabian	MWF Liaison:	Vera Lyman
Field Trips:	Jerry Moore, Coordinator	Scholarship:	Susan Taylor
Historian:	John & Lilly Lewis	Christmas Party	Shirley Rockel
Hospitality:	Eddie "Lightning" Ridge	1998 Show:	Roger K. Pabian
Study Coordinator:?		1999 Show:	Jim Marburger
Housing/Property:	Jim Parks	2000 Show:	
Youth Activities:	Kay Jurgens	1998 Swap:	Francis Belohlavy
Librarian:	Roger Pabian	1999 Swap:	
Auditing Committee:?			

Gem Palette Correspondent: Vera Lyman

Geology Day Coordinator: *2nd Vice President*

L. G. M. C. Web Page Address :

<http://nesen.unl.edu/lgmc/lgmc.html>

Your **PICK & SHOVEL** Staff

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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.

J. J. & L. ROCKS and MINERALS

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Read your bulletin for new materials or specials from the above advertisers.

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

Subscription to the **PICK & SHOVEL** are \$10.00 per year mailed.

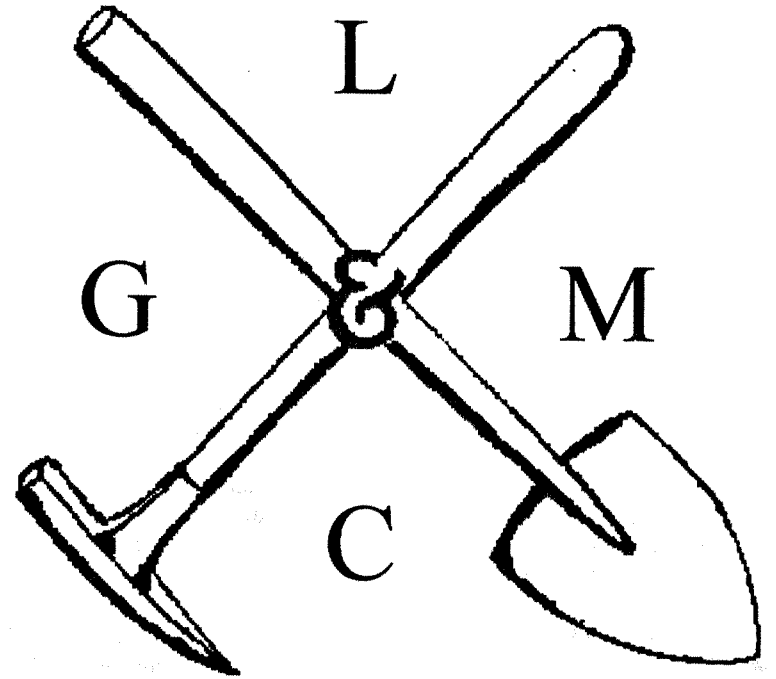
Dues to Lincoln Gem & Mineral Club are as follows:

Adult	(ages 16 and over)	\$10.00/yea
Junior	(ages 12 to 16)	\$2.00/yea
Family Membership	(Husband, wife, resident children under age 16)	\$22.00/yea

New memberships must be approved by the Board, after the applicant attends at least one meeting of the club and pays the above dues plus a \$5.00 registration fee.

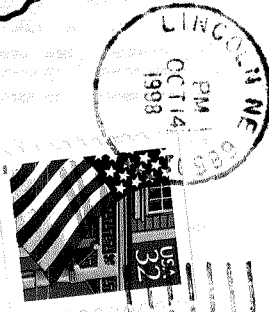
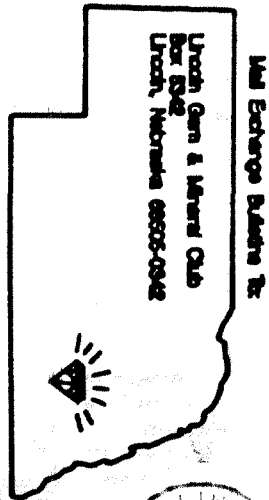
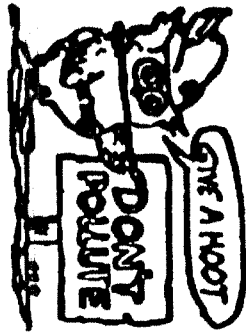
THE PICK & SHOVEL

OCTOBER 1998



OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA



H. E. L. P.

Help Eliminate Litter Please

Associated with



Susy McMahan
5636 Greenwood St.
Lincoln, NE 68507

