

CALENDAR OF EVENT

Regular Meeting: February 27, 1993, 7:30 PM, Norfolk Room  
Nebraska Center, 33rd & Holdrege  
Scholarship Presentations to three students

Youth Activities: Plan Show Participation and bring extra materials  
to be used at the show

Coming Club Events: February 28, Sunday, **Geology Day '93**  
Prairie Life Center, Pioneer Park, 1 to 4 PM

March 1-Board Meeting at Bennet Martin Library

March 4-Show Committee Meeting

March 26, All hands needed to set up SHOW  
March 27 and 28-35th Annual Show

**A CELEBRATION IN GEMS**

April 24, regular meeting Scottsbluff Room

May 22, Picnic meeting Antelope Park Shelter

Other Events: Greater Kansas City Show - March 19, 20, 21

So. Central Fed. June 17-19, Arlington, Texas

California Fed. June 25-27, Ventura, California

Northwest Fed. July 23-25, Mt. Vernon, Washington

Eastern Fed. July 30, 31, Aug. 1, Hampton, Virginia a

Midwest Fed.-Field Trip Conv. Aug. 8-15, Houghton, Mich.

AFMS-Rocky Mt. Fed. Sept. 16-19, Denver, Colorado

New Members January- Romona & Richard Rhodes  
4125 Holly Road, Lincoln, NE 68502

Rose Mary Wood, 850 So. 7th, Seward, NE 68434



Emily Rieur

## PRESIDENTS MESSAGE

As you read this, there will be only about four or five weeks until our show in March. It is very important for those of you who can to come and help out with set-up on Friday March, 26th and the tear-down Sunday. There is no longer much hard work as there used to be but there are many little things to do to get the auditorium ready for our dealers and guests, and get our displays ready for public viewing. Don't get the idea that this is hard work; mostly what we do is have fun and talk with our friends.

On Sunday, February 28th we will be at the Prairie Interpretive Center at Pioneer Park for Geology Day. All of us 'old timers' will be there if we can because this is fun! Bring a display if you have one (this might be a good time to try out your show display) and be prepared to do a lot of talking. Of course very few of us are expert on anything, but just discussing the hobby will disclose knowledge we never knew we had, and we will learn quite a bit as well. As I said last month, we do not need to have a competition quality display. The ordinary garden variety of beginner's display is just fine; and if you don't feel you have enough knowledge to answer questions then join the rest of us in asking them!

If any of you know of anyone whom you feel would like to be a member of our club, please offer them an invitation. Contact Shirley Rockel or Phyllis Parks for membership applications and information and/or get them to one of our meetings. Geology Day is an excellent opportunity for them to see some of the things we do and to meet other members of the club. Also make sure that they get to the show in March. This is the ultimate showcase of our interests and talents. As you are aware, the more members we have, the more we can do and the more fun we can have in doing it. Right now we gain about as many members as we lose and ultimately that is not good for the club. Let's get out and do a little sales job on our friends.

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## SHOP TIPS

In some displays, you want a slab to show how it looks before polishing. Water won't stay wet, grease looks greasy, some waxes turn white under heat. If you rub the surface with liquid detergent and wipe it off there is no shine and the pattern will show.

-from Magic Valley Newsletter, Via Breccia

Next time you find a deposit of chert, bring home a solid piece and slice it, and you will have the finest whetstone for sharpening knives and gravers that you could possibly ask for - try it.

-from Bulletin of Pow Wow Club of America - Via Breccia

When polishing mix a tablespoon of crisco with the same amount of Linde A, or other polishing compound, and apply to a felt polishing wheel or lap. It's viscosity prevents the powder from flying off or traveling to the edge of the lap. Caution! do not use for opal or turquoise, this will discolor opal and cause turquoise to turn green.

-from MMGS et al, Via Breccia

To restore a polishing lap surface, (where re-machining is not required) faceter Cliff Jackson recommends you get a package of coarse Scotch-Brite polishing pads. Cut to fit a common rubber sandpaper pad. Place lap in the sink, and, with water running on the lap, scrub the lap surface in a

circular motion with good firm pressure. When you are satisfied that the surface is clean, use a little dish detergent to further clean the lap. Dry the lap and put it to work. It will as good as, or better than, when it was new.

-from Off The Dop, via Breccia

**Brightening Tigereye:** Removal of iron oxide from tigereye will give it more life and chatoyancy. This is done using an oxalic acid solution which reduces and removes iron oxide from solution.

First, remember oxalic acid is a poison and should not be used in cooking utensils. Keep oxalic acid crystals and solutions out of reach of children and pets. Also avoid breathing the fumes.

The basic method is to boil cabachons in a solution of one teaspoon of oxalic acid per cup of water until the desired results are obtained. The addition of aluminum foil or an aluminum nail will act as a catalyst, causing the reaction to proceed faster. Stir occasionally and the process should be complete in a few hours. The water should turn green as a sign that the reaction is taking place.

Large specimens may be treated cold in a bucket or tub. In this case, the presence of aluminum is essential for the reaction to occur. The cold method takes several days or longer to work.

-from Petrograph, Via Breccia

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#### ARTICLE REVIEW

Review of "As The Old World Turns" from DISCOVER MAGAZINE , Jan 1993, pp 24-28, by James Shreeve.

A skull fragment recovered by Austrian geologist John Martyn in 1965 from the Chemeron Beds of Kenya's Lake Baringo Basin may be the oldest known specimen of Homo known. Mis-identified as Australopithecus and of unknown date, it lay in a drawer in the National Museum of Kenya for over 20 years. The appearance of crude stone tools during a period of drastic climatic change about 2.5 million years ago indicated the possibility of Homo at that time but no known specimens were anywhere nearly that old. Then Andrew Hill and Steven Ward rediscovered the fragment in the late 1980's and noticed Homo characteristics. Later microprobe dating established the age of the Chemeron Beds at 2.4 million years. This would make this fossil the oldest Homo in existence.

A lower jaw with all 16 teeth intact was discovered by a joint German-Georgian archeological team during the excavation of a medieval house 50 miles south of Tbilisi, Georgia. This was recovered from a deposit dated by palomagnetism at either 900,000 or 1.6 million years old and associated with mammalian fossils compatible with the earlier date. This jaw was tentatively identified as Homo Erectus, and if proven, could advance the known presence of H. Erectus in Europe and Asia by about 700,000 years.

The discovery of two skulls in China by Li Tianyuan and Dennis Etler and dated at least 350,000 years old. Although badly crushed, they appear to be an evolutionary species between Homo Erectus and current East Asian peoples. They may indicate a simultaneous evolution of modern man in both Asia and Africa and may cast doubts on the theory of a paleo Eve of African origin. Naturally this has created heated controversy among archeologists which will rage for many years.

David Heffelbower

**Junior Activities**

Time to get ready for our March Show! Please bring rocks and items you think others might like to take home, so we can organize and label them. We will also be making plans for our activities at the show and need all of you to sign up to help! Any donations by adults will also be appreciated!

If your science fair is coming up, you might consider an earth science project that could be used at our show. There will be prizes for youth displays!

Junior members are also invited to Geology Day at Pioneers Park, February 28th. See if you can create an exhibit for this fun day!

**Book Review:**

*The Dragon in the Cliff*, by Shelia Cole, is a book that all kids who like to hunt for fossils should read. Mary Anning is a young girl who hunts for "curiosities" on England's cliffs, near Lyme. Her father dies and she helps her family by selling her fossils to tourists. She found the first complete skeleton of an ichthyosaurs in the cliffs and sold it. She was considered strange by the people who lived there. It was not considered proper for a young girl in the 1800's to be out hunting for fossils. She died when she was 47 and didn't get credit for her discoveries. This book is a fictional book based on her day diaries. I liked the description the author gave of the fossil hunting and how they were cleaned. The book is very sad. I think adults that start to read this book will want to finish it too! - Emily Rieur

## LGMC Treasurers Report for January 1993

NBC Checking 12/31/92	\$1186.77	
Gen.Ledg. Adj.per audit+	<u>91.00</u>	
NBC Checking 1/1/93		1277.77

## Receipts-

1993 Membership Dues	320.00	
Suspense '93 Gem Palette	6.00	
'93 Dealer Space & Deposit Show	450.00	
Annual Swap Surcharge/10%	79.86	
Silent Auctions/Nebr.Geo.Cent.Fund	<u>126.75</u>	982.61

1/8/93 Interest Scholarship Cert.Dep.		177.00
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## Payments

Midwest Federation Dues	85.00	
Nebr.Assoc.Earth Science Dues	29.05	
Friends of State Museum Concrib.	50.00	
Spec.UNL Foundation Schol.Deposit	150.00	
1994 UNL Foundation Schol.Deposit	350.00	
Printing P & S	26.54	
Stamps @.29 for 2 months P & S	58.00	
Astro's for '93 Swap Flyers	12.78	
Treas.copies & Supplies	11.35	
Curtesy cards	2.00	
Anniv.cake & serving supplies	30.00	
Show supplies for Youth	20.00	
Susp.Nebr.Sales Tax '92 Show	<u>270.61</u>	1095.33

NBC Checking Balance 1/31/93		1342.05
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LINCOLN GEM & MINERAL CLUB, INC - GENERAL MEETING - Jan 23, 1993 7:30 P.M.  
(IN CONJUNCTION WITH ANNUAL SWAP FROM 1:00 P.M. - 6:00 P.M.)  
Scottsbluff-Minden Rooms NE Center for Continuing Education

Meeting called to order. Motion for approval of the minutes as printed by John Abel; 2nd by Bill Rockel. Motion carried.  
Treasurer's report approved as printed with motion by Charles Wooldridge, 2nd by Gerald Moore. Motion carried.

Hospitality reported 28 members, 6 Juniors and 2 guests present.  
NO OLD BUSINESS.

NEW BUSINESS:

1993 budget presented. Discussion followed. Motion by John Abel, 2nd by Jim Marburger. Carried unanimously.

ANNOUNCEMENTS:

NE Academy of Science Annual Meeting April 16 & 17 at NE Wesleyan (Sat) Field trip to Pawnee/Richardson Counties- approx time 7 AM to 6 PM)

Feb 28 (Sun) Geology Day 1-4 P.M. Please come, display, demonstrate or just talk to people. These are people who are really interested in rocks.

SHOW: March 27 & 28 Need lots of help for Show set-up. Don't forget your entry in Competition - Best Nebraska specimen, Nebraska Fossil, Nebraska Lapidary art. Special Show display - Smithsonian "American Gemstone Collection"

Kansas City Show - one week prior to our Show. - They will have on display from Smithsonian the Minerals which are on the U.S. Postage Stamps  
Show Meeting will be held the 1st Thurs of Feb. Show flyers are available for your distribution.

PROGRAM FOR FEB. - The three Scholarship recipients will give a short presentation on their studies.

MEMBERSHIP: To date we have 61 Adult, 11 Junior members paid up.

Note!!! Up to this time there is \$ 55.15 + \$ 5 donation in Silent Auction receipts.

DON'T FORGET: Club members who are ill, lonely or just need our attention!

Meeting adjourned. Everyone enjoyed Anniversary Cake with "Minerals" and coffee.

Respectfully submitted,

*Vera Lyman*  
Vera Lyman, Secretary

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS Jan 7, 1993  
Bennett Martin Library Conference Room 7:00 P.M.

Meeting called to order by the President. Minutes and treasurer's report were approved as read. Motions carried.

Addition to minutes that the May Meeting will be at Antelope Park Shelter House.

BILLS: Were presented for payment and approval with motion by Shirley R., 2nd by Francis B. Motion carried.

SHOW Certificate of Deposit #926743 was purchased at 3¼% for 3 months; expiring on March 17, 1993.

NO OLD BUSINESS.

NEW BUSINESS:

Scholarships - List of possible selections was presented. The following were chosen: (listed with their specific studies)

ZUL NAYAN - Omaha & Blackbird creek area

EWA OSSOWSKA - Salt Creek Flood Plain

MARY TOZER - Outside NE

Motion by Vera L that we give 3 Scholarships this year due to additional contributions. 2nd by Charles W. Motion carried.

Motion by Billie H that we submit 1994 Scholarship Funds to UNL Foundation as soon as possible. 2nd by Vera L. Motion carried.

Treasurer Phyllis P requested approval of payment for Non-profit Corp report if payment is required.

'93 OPERATING BUDGET - Reviewed and revised. Will present new budget at Meeting

SWAP: Saturday Jan. 23, 1993 1:00 P.M. to 6:00 P.M. followed by Meeting at 7:30. with Anniversary Cake.

ANNOUNCEMENTS:

Nebraska Academy of Science Annual Meetings Fri & Sat April 16 & 17 on NE Wesleyan Campus

Friends of Museum: Annual Meeting and Exhibit Jan 16 @ Morrill Hall. Reservations by Jan 12

SHOW: Motion by Phyllis P that we no longer adhere to previous motion of limiting Club member dealers at our Shows. 2nd by Francis B. Motion carried.

Meeting adjourned.

Respectfully submitted,

*Vera Lyman*  
Vera Lyman, Secretary



# GEOLOGY DAY 93

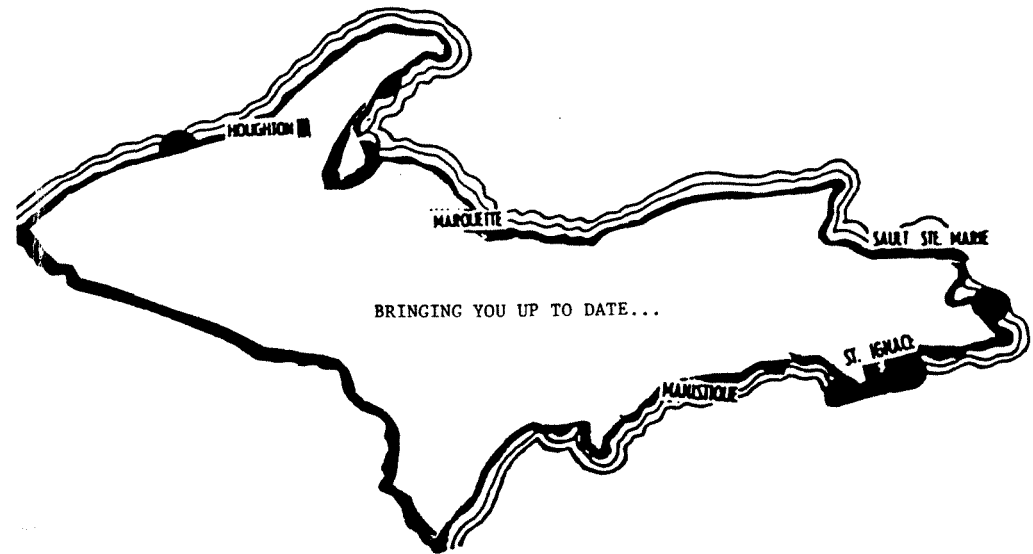
Sunday, February 28

1:00 - 4:00 P.M.

Pioneers Park Nature Center  
Prairie Center Building

**SEE!** Exciting  
ROCKS

Demonstrations  
**Fossils** Minerals  
Learn How to be a Rockhound



GOOD FUN...GOOD FELLOWSHIP...GOOD TIMES...EXCITEMENT

ALL OF THESE await you when you attend the upcoming Field Trip Convention to Upper Michigan...

GOOD NEWS...The FIELD TRIP CONVENTION and the RED METAL RETREAT will be combined!!!

Here are some of the things you may look forward to...

Cracker Barrel (Panel Discussion)  
Scheduled field trips  
Competitive displays  
3 days of swapping  
Silent Auction  
Live Auction  
Editor's Breakfast  
Red Metal Reports

Entertainment at the Beach (WOW!!!)  
BBQ  
State Directors Meeting  
Executive Committee meeting & luncheon  
Delegates meeting & luncheon  
Awards Banquet  
Shuttle service

Encourage your club members to come by Greyhound (or mini-bus)...leave the driving up to them. Shuttle service will be available...to and from field trips, malls and other attractions.

DORMITORY HOUSING...\$100.00 per week per person...this includes ROOM & BOARD

Underground collecting at the Caledonia Mine.

Plan to take your BIG SUMMER VACATION in the UP...you can't afford to miss THIS ONE!!!

PRE-REGISTRATION PACKETS WITH ALL THE NEEDED INFORMATION WILL BE MAILED TO ALL CLUBS (two copies to each club) ABOUT THE 1st of MARCH.



## 1993 ELECTED OFFICERS

**President:** C. David Heffelbower, 1819 Washington St., Lincoln, NE 68502 475-4713  
**1st Vice President:** Charles Wooldridge, 836 S. 31st St., Lincoln, NE 68510 475-9034  
**2nd Vice President:** Francis Belohlavy, 3015 Orchard, Lincoln, NE 68503 477-4337  
**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:** Pam Killion, 3425 'N' St., Lincoln, NE 68510 477-1780  
**Board Member:** Kevin Schartman, 1226 So. 24th, Apt.D, Lincoln, NE 68502 475-4713  
**Board Member:** Billie Heffelbower, 1819 Washington St., Lincoln, NE 68502 474-9441  
**Board Member:** Shirley Rockel, 1134 West Avon Lane, Lincoln, NE 68505 464-3059

### Nominations Committee Long Range Planning & By-Laws Committee

<b>3 Years:</b> Jim Marburger	<b>3 Years:</b> Vacant
Kathy Pavlish	Roger Pabian
<b>2 Years:</b> Dwight Miller	<b>2 Years:</b> Kevin Schwartman
Janet Wright	Jim Marburger
<b>1 Year:</b> Gerald Moore	<b>1 Year:</b> Bob Wright
Don Phillips	Linda Parks-Lundgren

**Chairman:** Immediate Past President

### STANDING COMMITTEES

<b>Membership:</b> Shirley Rockel	<b>Programs:</b> Charles Wooldrige
<b>Education:</b> Roger Pabian	<b>MWF Liaison:</b> Vera Lyman
<b>Field Trips:</b> Kevin Shwartman	<b>Scholarship:</b> Dwight Miller
<b>Historian:</b> John & Lillie Lewis	<b>Christmas Party:</b> Billie Heffelbower
<b>Hospitality:</b> Eddie "Lightning" Ridge	<b>1993 Show:</b> Francis Belohlavy
<b>Study Group Coordinator:</b> Ralph Ulrich	<b>1994 Show:</b> Billie Heffelbower
<b>Housing/Property:</b> Jim Parks	<b>1993 Swap:</b> Roger Pabian
<b>Junior Activities:</b> Pam Killion	
<b>Librarian:</b> Jim Parks/Charles Woodrige	
<b>Gem Palette Correspondent:</b> Pam Killion	
<b>"Geology Day" Coordinator:</b> 2nd Vice President	


### AUDITING COMMITTEE, 1992-93

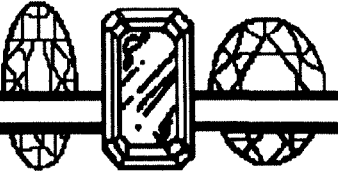
Charles Wooldrige  
 Francis Belohlavy  
 Shirley Rockel

### Your PICK & SHOVEL Staff

**Publisher:** Lincoln Gem & Mineral Club, Inc., P.O. Box 5342, Lincoln, NE 68505-0342  
**Editor:** Francis Belohlavy, Phyllis Parks, David Heffelbower and others  
**Business Reporter:** Vera Lyman  
**Financial Reporter:** Phyllis Parks  
**Circulation:** Phyllis and Jim Parks

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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/ 1/2 page; \$5.00/ 1/3 page; and \$3.75/ 1/4 page (Min) per issue, paid in advance. These ads will be placed throughout the bulletin as space permits.

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

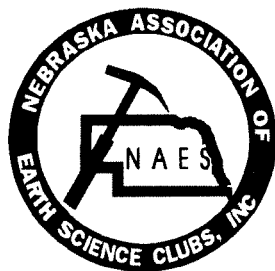
Dues to LINCOLN GEM & MINERAL CLUB are as follows:

Adult (ages 16 or over) - \$10.00/year  
 Junior (ages 12-16) - \$2.00/year  
 Family (Husband, wife and resident children under age 16)

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



Associated with:



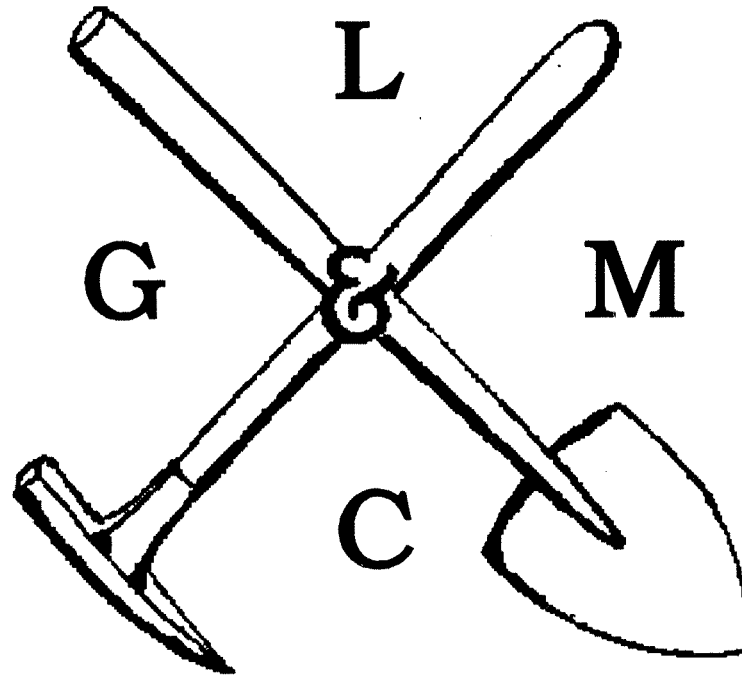
# THE PICK & SHOVEL

## February, 1993



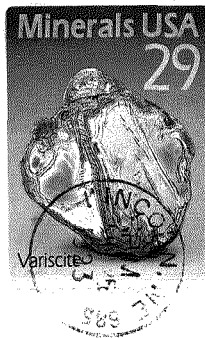
### H. E. L. P.

Help Eliminate Litter Please



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Lincoln Gem & Mineral Club  
Box 5342  
Lincoln, Nebraska 68505-0342



Edward Ridge  
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Lincoln, NE 68502

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LINCOLN, NEBRASKA