



# PICK & SHOVEL

Lincoln Gem & Mineral Club, Inc.

Lincoln, Nebraska

[www.lincolngemmineralclub.org](http://www.lincolngemmineralclub.org)

## BOARD OF DIRECTORS

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[padr20@yahoo.com](mailto:padr20@yahoo.com)

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[mmstewart@inebraska.com](mailto:mmstewart@inebraska.com)

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[ed20649@windstream.net](mailto:ed20649@windstream.net)

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### Board Member

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### Board Member

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[charles.wooldridge@nebraska.gov](mailto:charles.wooldridge@nebraska.gov)



Volume 54, Issue 2  
October 2011

## GENERAL MEETINGS / ACTIVITIES

Regular monthly meetings are held at 7:00 p.m. at the Bethany Park Shelter House on the third Thursday of the month: Sep., Oct., Nov., Feb., Mar., Apr., and May; the second Sunday in December; and the fourth Saturday in January. Youth activities begin at 6:30 p.m. on the same dates. Summer meetings and other activities will be announced as they are planned.

### Calendar of 2011 Meeting Dates

| <u>Board</u> | <u>General</u> |
|--------------|----------------|
| Nov 2        | Nov 17         |
| Nov 30 (Dec) | Dec 4          |

### Monthly Rock Party

October 21, 2011

5:30 p.m.

Details inside

\*\*\*\*\*  
\* Show Committee Meeting \*  
\* October 18, 2011 \*  
\* 6:30 p.m. \*  
\* Lyman Residence \*  
\*\*\*\*\*

### October General Meeting

October 20, 2011

7:00 p.m.

**Program:** Andrew Tiedje will present a slide presentation and talk of the August field trip to the Jessieville, Arkansas area. Field trip participants are asked to bring some specimens found on the trip.

### Mineral Monkeys

October 20, 2011

6:00 p.m.

Activity: Basic lesson in rocks and minerals (for scouts to earn Geology badge and Monkeys to earn FRA badge).

**Halloween Meeting**  
Come dressed as a hobby-related item.  
Be creative and have fun!

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, especially to youth and student groups.



### PRESIDENT'S MESSAGE

















by Richard Peterson

I just returned from Omaha where I attended the Nebraska Mineral & Gem Club's 56th Annual Show. Nice venue and a lot of club member support to make it all work.



October is upon us with our family and field activities winding down. Leaves are beginning to turn and the cockle burrs are drying and sticking to everything (you know where I've been). Elections are just around the corner. Support our great club and run for office or volunteer to chair a committee. See you at the general meeting.

### REFRESHMENTS SCHEDULE

|   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct 20:   | Pies   | Linda Guenter   | Vera Lyman  |   |   |   |   |   |   |   |   |   |   |   |   |
| Nov 17:   | Cookies  | Stella Thiessen   | Andrew Tiedje   |   |   |   |   |   |   |   |   |   |   |   |   |



### SCIENTIST SUNDAYS

#### Sunday with a Scientist UNL: Morrill Hall Program Schedule

October 16: Fossils

Mineral Monkeys: By attending this month's fossil program, you can earn credit toward obtaining your FRA fossil badge.

### ELECTIONS ARE COMING!!

The Nominating Committee, headed by Past-President Charles Wooldridge, has offered a slate of nominees for the upcoming elections. Nominations will be accepted from the floor immediately prior to voting at the November meeting. The slate thus far is:

- President: Richard Peterson
- First-Vice: Ed Dvorak
- Second-Vice: Aulden Stewart
- Treasurer: Vera Lyman
- Secretary: Sharon Marburger
- Board Members: Robert Cropp  
Jim Marburger  
Ed Ridge  
Charles Wooldridge

If you or someone close to you would be interested in holding an office, please submit his/her name as a nomination from the floor at the November meeting.

## LINCOLN CURIOS ROCK SHOP

6625 Burlington - Lincoln, NE 68507 [Park in alley]  
(402) 310-3307

### ► SPECIALIZING IN ARIZONA PETRIFIED WOOD ◀

- ◆ Rough stones and fossils for the hobbyist
- ◆ Polished stone items for interior décor
- ◆ Great selection of tumble-polished stones
- ◆ Natural petrified wood for landscaping

Open Tuesday thru Saturday  
10 a.m. - 6 p.m.

## GENERAL MEETING MINUTES

### Bethany Park Shelter, September 15, 2011

The meeting was called to order at 7:01 p.m. by President Richard Peterson. It was decided to hold the program first so the Mineral Monkeys could participate. The program was a slide show, presented by Dr. Robert Diffendal, Professor Emeritus, UNL. Dr. Diffendal has made several trips to China, and he shared photos and stories regarding geology, sociology, paleontology, and anthropology. The half hour program showed many items and treasures throughout the 1,420 plus mile loop which began at Xian, China. It was an interesting and entertaining presentation, and we thank Dr. Diffendal for sharing.

The business portion of the meeting began after the program. Eighteen adult members, 4 Mineral Monkeys, and two guests, Ann Marie Frerichs and Howell Pabian, attended.

The minutes of the May meeting were published in the Pick & Shovel. Charles Wooldridge moved to accept the minutes as published, second by Roger Pittard. Motion carried.

The Treasurer's Report was read by Vera Lyman. Jim Marburger moved to accept the report as read, second by Mary Pittard. Carried.

### ANNOUNCEMENTS:

The monthly rock party will be held at the Lyman's residence on Saturday, September 17. Vera plans to make cheddar sausages. Bring complimentary food and your equipment.

Jim Marburger shared MWF Convention news. LGMC won the bid to host the 2013 Convention. Des Moines won the bid for 2014. The Federation by-laws have been modified to change the number of annual meetings from 3 to 2. The convention was hosted by the Toledo club, who presented a very nice show. The Marburgers took 40 pieces of rock specimens for the MWF Silent Auction. About 50 people attended the field trip to the rock quarry where fossils were collected. Jim found a very nice trilobite, in addition to numerous other fossils.

### OLD BUSINESS:

Sharon Marburger was asked to produce updated copies of the by-laws to the Board members. They are

available on the club's website for anyone to print.

### NEW BUSINESS:

Jim Marburger had contact with a young scouting group in Louisville, Nebraska who are interested in earning geology merit badges. Jim is to invite the group to either the October or November general meeting.

### COMMITTEE REPORTS:

Show Report: Twelve dealer contracts have been mailed out. Three have been executed. Demonstrator contracts are in the works, and advertising has begun.

Field Trip Report: Jim Marburger is trying to set up a trip to a rock quarry in northern Kansas. Details when they become available.

Nominations Report: The slate of nominees was announced. Candidates are: President - Richard Peterson; First Vice-President - Ed Dvorak; Second Vice-President - Aulden Stewart; Treasurer - Vera Lyman; Secretary - Sharon Marburger; and the four Board members - Robert Cropp, Jim Marburger, Ed Ridge, and Charles Wooldridge.

The October rock party is to be hosted by Greg Ford. A date and time will be forthcoming.

The October program will be a field trip report by Andrew Tiedje.

The meeting adjourned at 8:24 p.m. on a motion by Jim Marburger, second by Al Stewart. Carried.

Respectfully submitted,

*Sharon Marburger*

MWF Field Trip to  
Silica Quarry

To give you an idea of how large this quarry is, look closely through the fog, about the center of the picture, to see the huge piece of rock moving equipment. It looks like a Tonka truck in comparison!



## BOARD MEETING MINUTES

### Gere Library, August 31, 2011 (Sep meeting)

The meeting was called to order at 6:30 p.m. by President Richard Peterson. All Board members were in attendance.

The minutes of the May 2011 Board meeting were distributed. Ed Dvorak moved to accept the minutes as printed, second by Robert Cropp. Motion carried.

The Treasurer's report was distributed. Jim Marburger moved to accept the report as printed, second by Ed Dvorak. Motion carried.

### OLD BUSINESS:

Jim Marburger reported that the field trip to Jessieville, Arkansas was a big success. Ten members attended and everyone found nice specimens

Charles Wooldridge inquired about a possible field trip to a quarry in Kansas. Jim stated he would try to contact and make arrangements.

The Rock Party for September will be held at the Lyman's residence on the 17th.

### NEW BUSINESS:

Treasurer Lyman informed the Board that the annual subscription to Diamond Dan publications was renewed.

The slate of nominees for Board officers will be published in the Pick & Shovel.

Treasurer Lyman has the books ready for audit. The Audit Committee is encouraged to review the books soon.

The MWF ballot was received in the mail. The Board voted and the ballot is to be returned before the deadline.

Jim Marburger had contact with a young scouting group who are interested in earning geology merit badges. Jim is to invite the group to either the October or November general meeting.

### REPORTS:

Ed Dvorak, Show Chair for 2012, presented the show budget. Jim Marburger moved to accept the 2012 budget, second by Charles Wooldridge. Motion carried.

Ed D. also announced the show's name. 2012: A Rock Odyssey. Discussion of advertising and promotional materials was had.

Roger Pabian's "estate" sales all went very well. Roger's brother was exceedingly pleased with the outcome.

The meeting closed on a motion from Jim Marburger, second by Ed Dvorak. Carried.

*Sharon Marburger*

## Silversmithing classes

**The Jewelry Connection Ltd.  
Indian Village Shopping Ctr.  
13th & Arapahoe, Lincoln**

**Tuesdays**

**October 11, 2011**

**thru**

**November 29, 2011**

**7:00 p.m. - 10:00 p.m.**

**Tuition: \$100 plus \$25 supply deposit**

**Contact:**

**Jayne Beer 402-890-3307**

**Judith Bay 402-423-7058**

**or e-mail**

**[jbeer60070@aol.com](mailto:jbeer60070@aol.com)**



Hosted by

Greg & Annette Ford 

October 21, 2011

h  
l  
y

2000 W. Denton Rd. (1 block west of the W. Denton & S. Coddington Rds. intersection on the north side. Look for the huge white corral and Rock Party banners.)

Our hosts have no equipment;  
bring your own.

After eating, we will head for the garages to work on projects. Dress according to the weather as it could be chilly.

This is a true “pot luck”.  
We have no food theme, so let’s have a nice variety of edibles!

See you all at 5:30 p.m. !

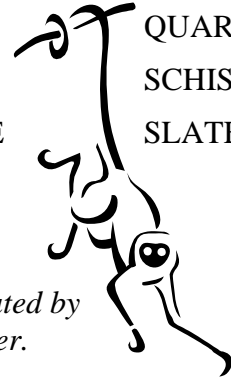
# MINERAL MONKEYS



Metamorphic rocks have been modified by heat, pressure and chemical process usually while buried deep below Earth's surface. Exposure to these extreme conditions has altered the mineralogy, texture and chemical composition of the rocks. There are two basic types of metamorphic rocks: 1) foliated metamorphic rocks such as gneiss, phyllite, schist and slate which have a layered or banded appearance that is produced by exposure to heat and directed pressure; and, 2) non-foliated metamorphic rocks such as marble and quartzite which do not have a layered or banded appearance. (excerpt from geology.com.) How many metamorphic rocks can you find in this month's puzzle?

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

- GNEISS
- MARBLE
- PHYLLITE
- QUARTZITE
- SCHIST
- SLATE



*Puzzle manually created by Sharon Marburger.*

From what type of rock is Corey's "rock"et made?



Original drawing by Mineral Monkey, Corey Beer, age 13



Gneiss  
Credit: radford.edu



Phyllite  
Credit: geology.com



Quartzite  
Credit: geology.com



Slate  
Credit: mii.org



Marble  
Credit: mii.org



Schist  
Credit: U.S. Nat'l Parks Service

# SEPTEMBER ROCK PARTY

by Rowdy Cropp

Photos taken by Vera Lyman, Rowdy Cropp, Judy Cropp, and whoever else got hold of the camera!

We had a great time at the grinding party at Vera and Glenn Lyman's house. There was some awesome food had by all and I think everyone had MORE than enough to eat. There was a LOT of equipment brought over and some very nice stones were polished.

Those in attendance were Jayne, Bryan and Corey Beer, as well as Jayne's sister; Andrew Tiedje; Wooly; Richard Peterson; Rowdy and Judy Cropp; Vera and Glenn Lyman; Ed Ridge; and, I apologize, I'm sure I am missing someone.

Glenn gave a tour of his Lapidary Room to the people who had not seen it before. He showed off his BEAUTIFUL specimens of cabochons and faceted stones.

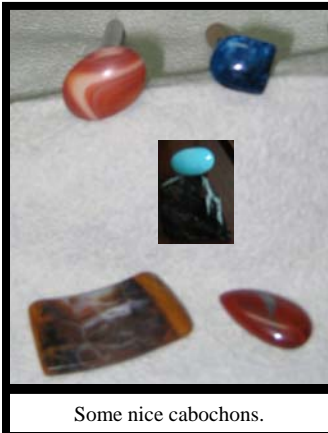
And, of course, one of the best things was a Husker win! Thanks to Vera and Glenn for opening their house to us, and hopefully we can do it again sometime!



President Richard Peterson, Andrew Tiedje, Corey Beer (hiding behind the cup), and Charles Wooldridge working on their projects.



Y  
U  
M  
M  
Y  
!



Some nice cabochons.



Rowdy Cropp and Vera Lyman



Jayne's sister, Jayne Beer and Vera Lyman chatting it up.



This picture says it all.



## SPECIAL SCOUT (WEBELOS) ACTIVITY

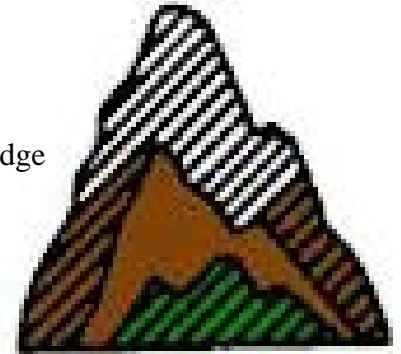
By Jim Marburger

The Webelos Scout den from Louisville, Nebraska is planning, at this time, to attend our November 17 meeting at 6 p.m. We will present activities and a program so they can fulfill the requirements to obtain their geology badge. The event was advertised as happening at the October meeting, but the Louisville Webelos are unable to attend. We will provide the program in October, just in case other dens show up. This project might develop into one that we can use at the show for larger groups of scouts.

I will have most of the materials needed for this activity, but will need help presenting it. The presentation should take no longer than an hour. The following requirements are needed for the geology badge.

1. Collect five geologic specimens that have important uses.
2. Rocks and minerals are used in metals, glass, jewelry, road-building products, and fertilizer. Give examples of the minerals used in these products.
3. Make a scale of mineral hardness for objects found at home. Show how to use the scale by finding the relative hardness of three samples.
4. List some of the geologic materials used in building your home.
5. Make a drawing that shows the cause of a volcano, a geyser, or an earthquake.
6. Explain one way in which mountains are formed. (Wooly has volunteered to handle this.)
7. Describe what a fossil is. How is it used to tell how old a formation is? Find two examples of fossils in your area.
8. Take a field trip to a geological site, geological laboratory, or a rock show. Discuss what you learned at your next Webelos den meeting.

If you would like to help with the presentations or have any egg cartons to donate, please let me know, and plan to be at the Bethany Park Shelter House just prior to 6:00 p.m., both October 20 and November 17.



Geology Badge

## J J & L Rocks & Minerals

P.O. Box 68  
Hickman, NE 68372

330 Locust  
Hickman, NE 68372

John Harrison  
Lee Harrison  
402.792.2337

James Marburger  
Sharon Marburger  
402.792.2348

jimandjohn@jilrocksandminerals.com  
www.jilrocksandminerals.com  
jilrocksmin - Ebay Username



Proudly serving  
the hobby for  
35 years

## REGIONAL SHOWS

**October 15-16: DES MOINES, IA.** Des Moines Lapidary Society's Annual Show; Paulo Knapp Animal Learning Center, Iowa State Fairgrounds, E. University Ave. Gate; Sat. 10-5, Sun. 10-4; CONTACT: Steve Cunningham, (515) 262-4578, steverv@mchsi.com.

**November 4-6: GOLDEN, CO.** Denver Area Mineral Dealers Public Show; Jefferson County Fairgrounds, 6th Ave. Frontage Rd. and Indiana St.; 10-5 Fri. & Sat., 11-4 Sun. For more information call 303-279-5504, or send an e-mail to ptucci@sprintmail.com.

**November 5-6: OKLAHOMA CITY, OK.** Oklahoma Gem & Mineral Soc., Modern Living Building, Oklahoma State Fairgrounds.

**November 12-13: FREEPORT, IL.** Northwest Illinois Rock Club's Annual Show; Highland Community College Student Center, 2998 W. Pearl City Rd.; Sat. 9-5, Sun. 10-4; CONTACT: Brian Green, P.O. Box 396, Warren, IL 61087, (815) 745-2228, bgreen57@hotmail.com.

**November 18-20: ST. LOUIS, MO.** St. Louis Mineral and Gem Society's Mineral, Fossil, and Gem Show; NEW VENUE! Affton Community Center, 9801 Mackenzie Road, St. Louis, MO 63123; Fri. 4-8, Sat. 10-7, Sun. 10-5; CONTACT: StLRockClub.com, or Melissa Perucca, PeruccaM@aol.com.

**December 9-11: LONGMONT, CO.** Flatiron Rock Club, Boulder County Fairgrounds, Hover & Nelson Roads.

**Open  
House**

Various types of coral.  
Some cut garnets, opals,  
citrines, peridot, ame-  
thysts, aquamarines, etc.



- High Quality
- Large Selection & Variety
- Great Value

One of only a few dealers of Alaskan Epidote, we have a large selection of both Jackstraw & Block varieties.

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Bruce & Debra Sturges  
402-680-4051; bruce@thefinestthings.com

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## Mineral Specimens for display or decor Gem Crystals suitable for jewelry

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**WOW!** Great depth of location & type! For example, Azurite from Arizona, Utah, New Mexico, France, Morocco, Mexico, Australia, China and Africa, including rosettes, suns, concretions, and crystals.

**Rough & Slabs:** Fire Agate, Crown of Silver Psilomelane, Malachite, Rhodochrosite, Chrysoprase, Holly blue agate, Gem silica, Shattuckite, Opal, Jade, Pietersite and more...

High-quality, unique, hand-selected Zeolites

**Saturday, Nov 5th**  
10:00am – 4:00pm

**Sunday, Nov 6th**  
1:00pm – 4:00pm



We also have **unfinished WALNUT board** for sale. All mineral, rock, gem & woodworking enthusiasts welcome!



## ONGOING PROJECTS / EVENTS

### HOBBY FUN

Would you like to have some hobby fun? Consider hosting a monthly Rock Party. It doesn't matter where you hold it. All you have to do is set the date and time, provide place settings for the potluck, and have areas to work in and chairs or floor to sit on. Let a Board Member know if you are interested in hosting.

**Still Available in 2011: November**

### SPECIMENS FOR SCHOOLS

We are still collecting samples for the Lincoln Public Schools' (LPS) 5th grade science classes. The requested specimens are to be 1 to 2 inches in size, and 12 to a bag. If possible, a minimum of 12 bags are requested per specimen. (To help with the confusion, this would be 144 pieces of any one specimen.) The bagged specimens are to be given to Vera Lyman for delivery to the LPS contact. The list of requested specimens is below:

|                  |                         |
|------------------|-------------------------|
| 1 Quartz         | 13 Obsidian             |
| 2 Feldspar       | 14 Pumice               |
| 3 Mica           | 15 Sandstone            |
| 4 Calcite        | 16 Shale                |
| 5 Halite         | 17 Limestone            |
| 6 Talc           | 18 Chalk                |
| 7 -----          | 19 Coal                 |
| 8 Pyrite         | 20 Marble               |
| 9 Copper Sulfide | 21 Slate                |
| 10 Sulpher       | 22 Quartzite            |
| 11 Granite       | 23 Petrified Wood       |
| 12 Basalt        | 24 Fossil<br>Gastropods |

### 2011 ALL AMERICAN

We are approaching the end of the year. If you made or plan to make any presentations or programs in 2011, taken pictures at 2011 club events or have done anything else to benefit the club in 2011, please provide copies to Historian Sharon Marburger for inclusion in the All American Club Award application.

This is a great way to preserve the club's history. Be a part of it!

### ON THE HUNT

The Club Library is missing the following issues of the *Lapidary Journal*:

|                 |                  |
|-----------------|------------------|
| 1960 - February | 1978 - March     |
| 1968 - April    | 2002 - May, June |
| 1969 - April    | 2006 - April     |

If you spot any of these issues, please purchase them and let Wooly, Judy Cropp, Vera Lyman, or Sharon Marburger know. You may donate them or be reimbursed.



### STANDING COMMITTEES CHAIRMEN

|                            |                    |
|----------------------------|--------------------|
| Audit                      | John Harrison      |
|                            | James Marburger    |
|                            | Ed Dvorak          |
| Christmas Party            | Edward Ridge       |
| Education / Librarian      | Charles Wooldridge |
|                            | Judy Cropp         |
| Facebook                   | Andrew Tiedje      |
| Field Trips                | James Marburger    |
| Geology Day Coordinator    | Aulden Stewart     |
| Grinding Party             | Aulden Stewart     |
| Historian                  | Sharon Marburger   |
| Legislative Liaison        | Robert Cropp       |
| Membership Record          | Edward Ridge       |
| MWF Liaison                | Vera Lyman         |
| Programs                   | Richard Peterson   |
| Property                   | James Marburger    |
| Refreshments / Door Prizes | Mary Pittard       |
| Scholarship                | Vera Lyman         |
| Show—2012                  | Ed Dvorak          |
| Swap—2012                  | Richard Peterson   |
| Website                    | Jim Atkins         |
| Youth Activities           | Stella Thiessen    |
|                            | Andrew Tiedje      |
|                            | Kay Jurgens        |

### ADVERTISING, SUBSCRIPTION, AND MEMBERSHIP INFORMATION

Advertising by rock / hobby business or interest is permitted with the approval of the Board of Directors. Contact the Editor with your proposed ad. The rate is set at \$20.00 per full page; \$10.00 per 1/2 page; \$5.00 per 1/4 page (minimum) per issue, paid in advance to the Club treasurer. Ads will be placed throughout the newsletter as space permits.

Subscription to the Pick & Shovel is \$15.00 per year for mailed copy.

Membership dues for the Lincoln Gem & Mineral Club are as follows:

Adults (age 16 and over) - \$15 per year or \$25 per couple (within the same household)  
 Juniors - \$2 per year (with a responsible adult)

All new memberships must be accompanied by a written application. Prospective members must gain Board approval and attend one regular meeting before being approved for membership.

### LONG RANGE PLANNING & BY-LAWS COMMITTEE

|                |                    |
|----------------|--------------------|
| <b>1 year</b>  | Edward Ridge       |
|                | Robert Cropp       |
| <b>2 years</b> | Charles Wooldridge |
|                | Sharon Marburger   |
| <b>3 years</b> | Vera Lyman         |
|                | John Harrison      |

### NOMINATING COMMITTEE

|         |               |
|---------|---------------|
| 3 years | Brad Nielsen  |
|         | Roger Pittard |
| 2 years | Robert Cropp  |
|         | Judy Cropp    |
| 1 year  | Vera Lyman    |
|         | Edward Ridge  |

Answers to Mineral Monkeys' puzzle

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

Mail Exchange Newsletters to:  
Lincoln Gem & Mineral Club, Inc.  
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Lincoln, NE 68505-0342  
Or e-mail newsletters to:  
lgmsecretary@yahoo.com

# PICK & SHOVEL

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## Your PICK & SHOVEL staff:

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**Circulation:** Vera Lyman, 402-464-6089  
**Reporters:** All members are encouraged to submit articles, poetry, or drawings.

## **A special thanks to this month's contributors:**

Corey Beer, Rowdy & Judy Cropp, Greg Ford, Vera Lyman, Jim Marburger, Richard Peterson, and Andrew Tiedje.

