

PICK & SHOVEL



Lincoln Gem & Mineral Club Lincoln, Nebraska
www.lincolngemmineralclub.org

BOARD MEETINGS

All Board meetings are held at 6:30 p.m. at Gere Library, meeting room 1, unless otherwise noted.

January 6, 2010

February 3, 2010

March 3, 2010

March 31, 2010 (April Meeting)

May 5, 2010

September 1, 2010

October 6, 2010

November 3, 2010

December 1, 2010

PRESIDENT'S MESSAGE

Greetings and farewell, fellow rockhounds.

December brings us to the end of my term as president. I will hand the reins over to Wooly, who will capably lead our group on new adventures.



I hope to see you all at the Christmas party on December 10. Bring your hot and cold dishes to share, and enjoy the fried chicken the club will provide.

Happy Holidays!

Terry

GENERAL MEETINGS / ACTIVITIES

All general meetings are held at 7:00 p.m. at the Bethany Park Shelter, unless otherwise noted.

December 13, 2009

Annual Christmas Party
(See announcement on page 2)

January 23, 2010

31st Annual Mid-Winter Rock Swap

MEET YOUR 2010 BOARD OF DIRECTORS

President	Charles Wooldridge
1st Vice President	Roger Pittard
2nd Vice President	Al Stewart
Treasurer	Vera Lyman
Secretary	Sharon Marburger
Board Members	Ed Ridge
	Jim Marburger
	Richard Peterson
	Ed Dvorak

DUES ARE DUE

**It's DUES time again. Get them in early.
To avoid paying a reinstatement fee, renew your membership
prior to January 31, 2010.
See Vera Lyman for more information.**

SPECIAL ANNOUNCEMENTS

CHRISTMAS PARTY

Make your plans to attend the Annual Christmas Party on Sunday, December 13, 2009 at the Bethany Park Shelter House. The fun begins at 5:00 p.m., with the potluck supper to begin at 6:00 p.m. The club will provide fried chicken, beverages, and table service. Attendees are asked to bring a hot dish and a cold dish. Those wishing to participate in the gift exchange are asked to bring a hobby-related gift of \$5.00. A 20-minute program on the Tucson show will be shown. We will also have a few rousing games of Rock Bingo. Contributions of bingo prizes are appreciated.

ROCK PARTY

Charles Wooldridge will host a Rock Party at his house on Saturday, December 19th. His address is 6115 Huntington Avenue. The fun will start around 6:00 p.m. with a potluck dinner, followed by hobby-related activities until the group gets tired. There will be opportunities for fossil prep, wire wrapping, lapidary, silversmithing, etc. Please bring any portable activity you have...Wooly will provide table space, some equipment, tools, and electricity. Hope to see you there!!

ALL AMERICAN CLUB AWARD

Articles, pictures, correspondence to your political representatives regarding land management, short stories of club outings, public activities, etc., for the 2009 All American Club Award Application. Please give your submissions to Sharon Marburger.

2010 MID-WINTER ROCK SWAP

The 31st Annual Mid-Winter Rock Swap is scheduled from 1:00 p.m. to 5:00 p.m. on Saturday, January 23, 2010 at the Bethany Park Shelter House. The January meeting will be at 7:00 p.m., following the "pizza supper". See the flyer on page 6 of this newsletter. The flyer may be reproduced for distribution. Contact Richard "Pete" Peterson at (402) 489-2996 for more information.

NATIONAL & REGIONAL COMPETITION

Have you been considering entering a competitive case in the MWF and/or AFMS annual shows? Dee Holland, the 2010 AFMS Uniform Rules Chair has a valuable suggestion. You can purchase the rules book from your regional supplies chair, or download the entire book at www.amfed.org/rules/rules.htm. Be sure to specifically look at the rules for the area in which you plan to compete.

Should you need assistance in deciphering the rules, or would like additional helpful insight to make your case entry the best possible, you can contact Anne Cook or Rose Blue of the MWF. They have attended the two most recent training classes for judging displays. Anne Cook has indicated a great willingness to help out anyone who has a sincere desire to compete. Her years in judging makes her a valuable resource.

If you are interested in entering a competitive exhibit at the AFMS/CFMS show in LaHabra, California, contact Dee Holland, P.O. Box 23, Tendoy, ID 83468, e-mail beauholland@centurytel.net. The application is also available at www.amfed.org.

*Information derived from A.F.M.S. Newsletter,
Volume 63, Number 2*

NOVEMBER GRINDING PARTY

by Charles Wooldridge

On November 14th, ten members and friends of the Lincoln Gem and Mineral Club gathered at Wooly's residence to play with rocks. Wooly provided silversmith and lapidary equipment, Roger and Mary Pittard brought a fossil preparation activity, Roger Pabian brought a drill and free form equipment, Aulden Stewart brought his lapidary equipment, and Ed Dvorak brought wire wrapping supplies. A potluck dinner started off the evening and the activities were planned while everyone enjoyed the usual scrumptious meal. Members were able to peruse the Club's Library which had been moved to Wooly's basement just that week. The library was found to be useful to several members that evening; questions were answered and articles found. Several publications were checked out. It was a really good time, and it lasted until the wee hours of Sunday morning. Wooly intends to continue to host parties on a monthly basis.

GENERAL MEETING MINUTES

November 19, 2009, Bethany Park Shelter

The meeting was called to Order at 7:00 p.m. by 1st Vice-President Charles Wooldridge. Four visitors – Graham Laird, Jane Beer, Ryan Beer, and Cory Beer – were present.

SPECIAL ANNOUNCEMENTS:

Charles Wooldridge plans to host another mini grinding party at his home on Saturday, December 19. Everyone is invited to participate.

OLD BUSINESS:

The minutes of the October meeting were published in the Pick & Shovel. Vera Lyman noted an error on the Winter Swap date and moved to accept the minutes with the correction, second by Aulden Stewart. Motion carried. The Treasurer's report for October was read by Treasurer Lyman. Mary Pittard moved to accept the report as read, second by Jim Atkins. Motion carried.

Richard Peterson asked for a couple of volunteers to work the Silent Auction tables as Karen and Charlie Messenger will not be able to assist. The Rock Swap will be held January 23, 2010 at the Bethany Park Shelter.

Show Report: John Harrison and Roger Pittard went to the Event Center to check on Show setup. The Marburgers have the postcard sized show fliers available for anyone who wants to take a stack to distribute.

Wooly reported that the November grinding party at his house went very well. They had so much fun, they lost complete track of time.

The Nominating Committee offered the following slate of nominees:

President	Charles Wooldridge
1st Vice President	Roger Pittard
2nd Vice President	Al Stewart
Treasurer	Vera Lyman
Secretary	Sharon Marburger
Board Members	Ed Ridge
	Jim Atkins
	Jim Marburger
	Richard Peterson
	Ed Dvorak
	Robert Cropp
	Judy Cropp

Ballots were distributed. No additional nominations were received from the floor. Shirley Rockel moved that the nominations cease, second by Pat Dvorak. Motion carried. The offices of President, 1st Vice President, 2nd Vice President, Treasurer, and Secretary were elected by acclamation on a motion and second by Aulden Stewart and Shirley Rockel, respectively. Motion carried. Following a run-off election for the fourth board member, those elected were Ed Ridge, Jim Marburger, Richard Peterson, and Ed Dvorak. Vera Lyman then moved the ballots be destroyed, second by Jim Marburger. Motion carried.

NEW BUSINESS:

President-elect Wooldridge requested volunteers for some positions he currently holds within the club. Richard Peterson agreed to be the Program coordinator, and Vera Lyman, Judy Cropp, and Sharon Marburger agreed to organize and catalogue the library.

The Christmas Party is planned for December 13 at 5:00 p.m. at the Bethany Park Shelter. The club will provide fried chicken, beverages, and table service. Members are asked to bring a hot dish and a cold dish. Those wishing to participate in the gift exchange should bring a wrapped hobby-related gift of approximately \$5.00. We will play Rock Bingo, so bring some prize donations to make this game even more fun!

A field trip to Custer, South Dakota is currently in the works. The plan is to hunt for Tepee Canyon jasper and agate. A second field trip is also in the planning stages. More on that trip later.

Dan Cromer plans to have the juniors work with quartz crystals at the January meeting. Members are asked to please bring any spare specimens for this project. Specimens will be accepted at the December gathering, also.

The meeting was adjourned to refreshments and program at 7:39 p.m., on a motion by Mary Pittard; second by Roger Pabian. Motion carried. The program was on drilling stones, presented and demonstrated by Roger Pabian.

Respectfully submitted,
Sharon Marburger

BOARD MEETING MINUTES

LGMC Board Meeting, November 4, 2009, Gere Library

The meeting was called to order at 6:32 p.m. by 1st Vice-President Charles Wooldridge. Board members present were Charles Wooldridge, Roger Pittard, Vera Lyman, Sharon Marburger, Jim Marburger, Al Stewart, and Ed Ridge. Youth Activities co-chair, Dan Cromer, also attended.

OLD BUSINESS:

Minutes of the October meeting were distributed. Roger Pittard moved to accept the minutes as printed, second by Jim Marburger. Motion carried. The Treasurer's report for October was distributed. Sharon Marburger moved to approve the report, second by Al Stewart. Motion carried.

The Rock Swap is ready to go, according to a conversation with Richard Peterson.

Charles Wooldridge has volunteered to take on the club library. Due to the size and location of the library, and the location to which it is to be relocated, Sharon Marburger moved to accept Wooly's offer to accept the library, and to allow the hiring of a professional mover such as "Two Men and a Truck", to physically move the library. A second to the motion was made by Roger Pittard; motion carried.

The slate of the executive board members for the November elections was published in the Pick & Shovel. Ballots have been made and are ready for the November General Meeting.

Charles Wooldridge gave the Show Report. He reported that all dealer contracts have been received. One dealer from the 2008 show has requested to provide a special display at the 2010 show, although it will not be a dealer at the 2010 show. Jim Marburger has received the postcard flyers. They are available to whoever wants some.

Sharon Marburger send in the application this month to sign up the LGMC youth members for the Future Rockhounds of America, sponsored by the AFMS.

The application for membership to the American Lands Access Association ("ALAA") was given to Vera Lyman to send with the membership dues. It will be submitted in the next week.

NEW BUSINESS:

Roger Pittard reported he needed to replace the vent covers on the club trailer.

Jim Marburger moved that the club renew the UNL Library subscription for "Rocks and Minerals"; second by Vera Lyman. Motion carried.

Sharon Marburger mentioned receiving an e-mail regarding a book authored by Robert Wolf, entitled "Fossils of Iowa, A Field Guide to Paleozoic Deposits". After some discussion, Vera Lyman moved to order the book and a CD update to the book from the author, for \$16.95 plus \$4.00 shipping and handling. A second was received from Al Stewart; motion carried.

Charles Wooldridge has asked that a volunteer be found for the 2010 Program Chair.

Judy Reilly has donated Geology Game Balls to the club. They will be housed in the club library.

The Christmas Party will be held on December 13 at the Bethany Park Shelter House. The club will provide fried chicken, beverages, and table service. Members are asked to bring a hot dish and a cold dish. Those wanting to participate in the gift exchange should bring a \$5.00, hobby-related wrapped gift. There will be a 20-minute video on the Tucson Show, and Rock Bingo. Members are asked to bring prizes for the bingo.

Discussion of implementing club vests. The subject will be brought before the rank and file to determine if someone has a simple pattern, or if anyone would like to volunteer their sewing expertise. Charles Wooldridge suggested this activity could be included at the monthly grinding parties at his home.

The meeting was adjourned at 7:41 p.m. on a motion by Sharon Marburger, second by Jim Marburger. Motion carried.

Respectfully submitted,
Sharon Marburger

PEBBLE PUPS



Happy December, Happy Hanukkah, Merry Christmas, Happy Kwanzaa, and Happy Boxing Day! In honor of Christmas, our puzzle this month is about precious stones and minerals mentioned in the Bible. Happy solving!



- | | | |
|-----------|---------|-----------|
| AGATE | CORAL | MARBLE |
| AMBER | DIAMOND | ONYX |
| AMETHYST | EMERALD | PEARL |
| BERYL | FLINT | QUARTZ |
| BRASS | GARNET | RUBY |
| BRONZE | GLASS | SALT |
| CARNELIAN | GOLD | SILVER |
| CLAY | IRON | TIN |
| COAL | JADE | TURQUOISE |
| COPPER | JASPER | ZIRCON |

CLUB VESTS

The Board of Directors has been discussing the return of the Club vest. Discussions have centered around a simple vest, made in various sizes. The vests would be "manufactured" by club members, perhaps at a sewing party or as an activity at one of Wooly's monthly club activity gatherings at his home. The Board would like to base the pattern off of the old club vest that was in use many years ago. If you have one of the old vests, the Board would appreciate borrowing it to create a pattern for the new vests.

Members would be able to purchase vests for a small amount, enough to offset the cost of fabric and supplies. This makes an excellent place to hang your nametag, display your club and Federation pins and patches, and make you readily identifiable at various club events, such as the annual show and rock swap.

Your input is important. Share your thoughts and suggestions on this subject at the Christmas Party meeting.

Lincoln Gem and Mineral Club, Inc.

proudly presents its
31st Annual Mid-Winter

ROCK SWAP & SALE

held at
Bethany Park Shelter House
Saturday, January 23, 2010
1:00 p.m. – 5:00 p.m.



Buy, sell or trade rocks, minerals, fossils, jewelry, equipment, and other items related to the rock / mineral / fossil hobby, lapidary, or jewelry making.

Swappers set up at 12:00 noon. Swap opens at 1:00 p.m. and closes at 5:00 p.m. The General Meeting follows at 7:00 p.m. and is open to visitors.

Swappers with tables are requested to provide material for the silent auction. Proceeds go to Southeast Community College Lapidary Grants.

Cash sales must be completed using Swapper Dollars. Swapper Dollars are available from the Club Treasurer at a 10% surcharge, payable by the buyer. Proceeds benefit Southeast Community College Lapidary Grants.

For Further Information:
Lincoln Gem & Mineral Club, Box 5342, Lincoln, Nebraska 68505-0342 or
Richard Peterson, (402) 489-2996

"LOOKS LIKE FLINT ... BUT IT COULD BE CHERT"

by Richard "Pete" Peterson

INTRODUCTION

I heard someone make this comment during one of our club sponsored field trips prior to the 2008 Lincoln Gem and Mineral Club annual show. What the comment referred to was a very nice knife blade one our guests had found on a gravel bar along the Nemaha River in southeastern Nebraska. The comment flashed me back 30 plus years.

As one who almost went into archeology as a career, the terms flint and chert are old friends. Stone artifacts (along with ceramics) are an archeologists bread and butter. Field training in Minnesota and central Mexico gave me an archeologists (but not necessarily the mineralogists) definitions of the terms. Even the Encyclopaedia Britannica lists the two terms under a single entry, "chert and flint". Is there any difference between chert and flint?

BACKGROUND

The word chert, rhymes with dirt (not all that appealing a name for a rock), is an umbrella term that encompasses a wide range of stones. Stones with far more romantic and desirable names. Under the chert umbrella are such things as agate, flint, chalcedony, jasper ... and many others. That's right, agate and the rest are all different forms of chert.

In petrology, the word chert is used for everything under the umbrella term. I guess everything gets in the way of the crude. To the field archeologist, however, the distinction between flint and chert is often of quality ... chert artifacts are generally considered to be of lesser distinction. This fuzzy use of words probably carried over from the terms used in England. There, most artifacts of flint (which came from chalk formations) were perceived to be of better quality (but not necessarily in workmanship) than of those made of common chert, which originated from limestone formations. We should all be acquainted with the many varieties of chalcedony (agate is probably the most popular) so a discussion of that variety of chert is unnecessary.

Chert and flint were the principal stones used in the manufacture of tools and weapons for Stone Age man (when found, these items are referred to as lithic artifacts). Both the stones have fine grain, brittleness, and conchoidal fracture that made it relatively easy to shape and create a sharp cutting edge. Chert and flint were also used for producing various fire starting devices. These uses include

the lithic artifacts produced by Native Americans in Nebraska and elsewhere in the North America.

In the American colonies and the rest of the world, from the 17th through 19th centuries, flint was used as a sparking devise. When hitting a metal plate a spark was created which ignited the black powder in flintlock muskets and other firearms.

ONE DEGREE OF SEPARATION

CHERT

Chert (the umbrella term) is defined as a fine-grained silica-rich microcrystalline, cryptocrystalline, or microfibrinous sedimentary rock. It varies from white to black, but is most often in shades of gray, brown, light green or rusty red. Other terms for chert used in the past included firestone, silex, silica stone, and flintstone.

Chert of the common variety, is opaque, dull, whitish to pale brown or gray. It is generally considered a less attractive stone for producing cabochons. In areas where chert is abundant, as in certain stream gravels, it is used as construction material and for road surfacing.

The origin of chert has been debated. Microscopic study, however, has shown that most chert occurs as nodules in sedimentary rocks such as chalks, limestones, and dolomite. Chalk is a soft, compact calcium carbonate derived chiefly from fossil sea shells. It contains various amounts of silica, quartz, feldspar or other mineral impurities. The irregular chert nodules form as replacement mineral in carbonate sediment after burial beneath the sea floor. The principal chert occurrences of this type in the U.S. are in California (Humboldt, Mendocino, San Joaquin, Stanislaus, and Trinity counties).

Chert can also occur in beds as primary deposits in deep depressions in the earth's crust in which sedimentary layers (strata) have accumulated (termed geosynchronous deposits). These thickly bedded deposits are found in the Ouachita Mountains of Arkansas and Oklahoma and at similar sites in Texas. They are of Precambrian age and are composed of alternating layers of chert and iron oxides.

FLINT

Flint is a variety of chert that occurs in chalk or in a mixture of clay, with carbonates of calcium and magnesium and remnants of shells (referred to as marly). A thin layer

"LOOKS LIKE FLINT ... BUT IT COULD BE CHERT" - CONTINUED

covering the nodule is usually a different color, typically white. Nodules erode from the matrix and end up on the beach or in stream beds. Flint is commonly grey to black, sometimes with green or brown overtones. It is nearly opaque, with a glassy or waxy appearance. In thin splinters (i.e. elongated flakes off the core of a nodule) it can appear a translucent dark brown. Some believe that flint belongs in the chalcedony group of minerals.

One of many hypotheses for the origin of flint nodules has a gelatinous material filling holes in the sediment created by crustaceans or mollusks. One source of flint nodules is in the Onondaga limestone layers in New York state.

Flint pebbles are used as media in ball mills to grind glazes and other material for the ceramics industry. The word "flint" is incorrectly used today to a variety of silica materials used in clay and glazes. The military use of flint in flintlock muskets declined after the British began using percussion caps in 1842.

SHARED CHARACTERISTICS

Chert and flint are both 7 on the Mohs' scale of hardness; of sedimentary origin; both fine grained and crystalline in structure; and both originated by chemical deposition. They both have conchoidal fracture which make them useful for many of the same applications.

NATIVE AMERICAN SOURCES

Let's get back to the lithic artifacts that can be found in Nebraska. The Native Americans who lived on the Plains had a variety of sources for their chert, flint, jasper, quartzite and other materials used for crafting their tools and implements. These items included adzes, awls, drills, fleshers, gravers, knives, projectile points, and scrapers. Here are some of the indigenous sources.

Graham Jasper - Also known as Smoky Hill, Republican River, or Alma jasper. This stone is frequently dense brown to yellowish-brown and is thought to have originated as silicified chalk peculiar to the upper beds of the Smoky Hill chalk in the Cretaceous Niobrara formation. It is found in layers or nodules along the Republican, Smoky Hill, their tributaries and other streams of the central Plains. The

stone is widely distributed throughout Nebraska and Kansas. Quarry pits have been found on Dutch Creek in Nebraska; in the Big Creek drainage near Collyer, Kansas; and at Norton, Kansas. It dates from at least 7,000 BC (the Hell Gap culture) - 1,300 AD.

Bijou and Flint Hills - Flint from the Bijou quartzite quarry in Gregory County, South Dakota was utilized by prehistoric peoples of the region. The Flint Hill quarries, also primarily a quartzite source, may have also yielded flint for stone tools and implements. This area is 10 km south of Minnekahta, at the south edge of the Black Hills near Edgemont and Hot Springs, South Dakota. Teepee rings and rough workshop debris including blanks ready for shaping are spread over 150 hectares of high tableland.

Flat Top - Located on a flat-topped butte in Logan County, Colorado, ca 28 km north and west of the town of Sterling. This site yielded grayish-purple streaked chert. Stone artifacts have been found in village sites dating from 1,000 - 1,300 AD on the Republican and Smoky Hill rivers located ca 300 km southeast of the butte.

Kay County - The Flint Hills of Oklahoma and Kansas. Extensive chert deposits occur in the Permian-age Florence formation. Used by peoples living in Oklahoma, Kansas, New Mexico and adjacent areas. In situ samples of the stone are grayish-yellow and blue-gray. Finished tools tend to be shades of reds or pinks, suggesting a heat treatment of the stone. Others include wheat-grain shaped Fusulinid fossils (a one-celled marine invertebrate), imparting a whitish color and textural attractiveness. The site was used from ca 1,000 - 1,400 AD.

Peoria - Located in Oklahoma in the Tahlequah chert of the Mississippian-aged Moorfield formation. Noted for a cream-colored chert that was quarried in northeastern Oklahoma from ca 5,000 BC - 1,000 AD.

Knife River - North Dakota's Knife River basin. A dark molasses-colored flint was quarried and distributed throughout the northern Plains. Pebbles and cobbles transported by alluvial and glacial processes made the stone available over a wide area. Archeological evidence indicates the continuous use of the flint from Paleo-Indian times to just before European contact.

Alibates Dolomite - In the Texas panhandle 50 km north of Amarillo. The stone is an agatized dolomite varying in color but chiefly in shades of red, blue, and gray, much of it is streaked. Hundreds of quarry pits are scattered over the hills. The site was used from Folsom times up to

"LOOKS LIKE FLINT ... BUT IT COULD BE CHERT" - CONTINUED

the historic cultures of Texas, Oklahoma, Kansas and neighboring states. It outcrops in stratigraphic zones within Permian-aged exposures of the Quartermaster formation.

FIELD IDENTIFICATION

Identifying a lithic artifact in the field, one crafted of either flint or chert, could depend on color. But, color alone is not a 100% reliable criterion. A hand lens examination might give a clue into the fineness of the crystal structure and help narrow the choice.

Understanding the context of the find will further help narrow the identification. If the artifact was found along the Nemaha River drainage in southeastern Nebraska it could indicate one conclusion. Which tribe of Native Americans were living in the area? What time period are we talking about? If the artifact was found along the Platte River in western Nebraska, another determination may be more likely. Do not forget to visit a regional museum, historical society, or ask knowledgeable, local artifact collectors.

After all this, some determinations will still fall into the, "not really sure" category. Sophisticated tests in the laboratory are beyond the means or needs of the average

collector. The final determination will remain one for those who really need to know, and have the resources to find out.

We then are left with making an educated guess, something beyond a simple lick and a quick scratch. This article should help the collector decide the difference between flint and chert, and perhaps where the stone may have originated.

REFERENCES

- De Mallie, Raymond J. 2001. Handbook of North American Indians. Vol. 13, Part 1. Plains. Smithsonian Institution: Washington, D.C. 676p.
- National Audubon Society. 1979. Field Guide to Rocks and Minerals. Alfred Knopf: New York, New York. 850p.
- Pellant, Chris. 2002. Rocks and Minerals. Smithsonian Handbooks. Dorling Kindersly: London, England. 256p.
- Wikipedia. <http://en.wikipedia.org/wiki/Chert>. *See also* flint, chalcedony, others.

MIDWEST FEDERATION NEWS

The election ballots for new officers of the Midwest Federation have been counted. The results and contact information are shown below. Should you have any questions, concerns, or suggestions to make the Federation a better organization, the Officers would love to hear from you.

President

Judith Washburn
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jrwashburn1@msn.com

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2009 BOARD OF DIRECTORS

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Vera Lyman, 402-464-6089

Secretary

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lgmsecretary@yahoo.com

Board Member

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Board Member

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Board Member

Edward Ridge, 402-477-8469

Board Member

Aulden Stewart, 402-483-1044
mmmstewart@inebraska.com

LONG RANGE PLANNING & BY-LAWS COMMITTEE

3 years Charles Wooldridge
Phyllis Parks

2 years Edward Ridge
Susan Taylor

1 year Vera Lyman
Roger Pabian

STANDING COMMITTEES

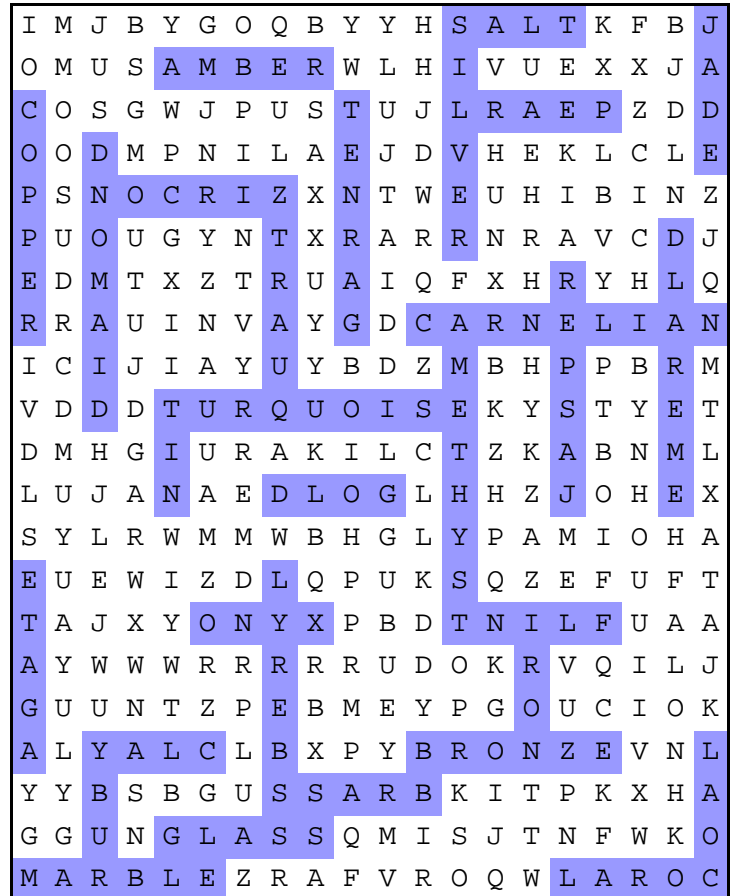
Audit	John Harrison, James Marburger, Roger Pabian
Christmas Party	Edward Ridge
Education / Librarian	Roger Pabian
Field Trips	James Marburger
Geology Day Coordinator	Roger Pittard
Grinding Party	Aulden Stewart
Historian	Sharon Marburger
Membership Record	Edward Ridge
MWF Liaison	Vera Lyman
Programs	Charles Wooldridge
Property	James Marburger
Refreshments / Door Prizes	Andrea Anderson
Scholarship	Vera Lyman
Show—2010	Charles Wooldridge
Swap—2010	Richard Peterson
Youth Activities	Dan Cromer, Kay Jurgens, Vera Lyman

NOMINATING COMMITTEE

3 years Robert Cropp
Judy Cropp

2 years Vera Lyman
Edward Ridge

1 year John Harrison
Aulden Stewart



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Advertising by rock / hobby business or interest is permitted with the approval of the Board of Directors. The rate is 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 (minimum) per issue, paid in advance. Ads will be placed throughout the newsletter as space permits.

Subscription to the Pick & Shovel is \$10.00 per year for mailed copy.

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

Adults (age 16 and over) - \$10 per year

Juniors (age 12-16) - \$2 per year (with a responsible adult)

Couples - \$20

Family membership (with children under age 12 years) - \$22 per year

Applications for new membership must be approved by the Board of Directors after applicant attends at least one meeting of the Club. Dues will be payable to the Treasurer following Board approval, with an additional, one-time \$5 registration fee.

J.J. & L. Rocks and Minerals

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Or e-mail newsletters to:
lgmcsecretary@yahoo.com

PICK & SHOVEL

LGMC web address courtesy of James Atkins.
<http://www.lincolngemmineralclub.org>

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Publisher: Lincoln Gem & Mineral Club, Inc., P.O. Box 5342,
Lincoln, Nebraska 68505-0342

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Circulation: Vera Lyman, 402-464-6089

News Reporters: All Members

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