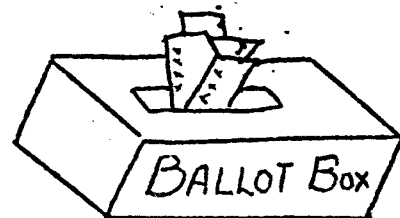


# CALENDAR



**Meeting:** Saturday, November 18, 2000-Annual Meeting and Election of Officers-Nebraska Center. See October Pick & Shovel for slate presented by the nominating committee. Be prepared to select 2 new members for the nominating committee for a three year term. Please support our club by attending this Annual Meeting.

**Program:** Silent Auction. Lets each one bring a special lapidary, mineral, fossil, jewelry or related item and have a silent auction for some very special purpose. \*\*\*

**Youth:** See your YOUTH PAGE and be there at 7 PM.

**Sunday, December 10, 5 to 9 PM, Christmas Buffet, Antelope Park Indoor Shelter, 31<sup>st</sup> & Sumner**  
As in the last few years the club will provide the coffee, cups and meats. Each family should bring a hot casserole, salad or dessert and their own table service. Susy McMahan is chairing the event with lots of Christmas decorations and a fun time for all. She hopes that each member will bring a wrapped gift for exchange and/or?

..... **NEXT LGMC SHOW - MARCH 24-25, 2001, Pershing Auditorium**  
(Our 43<sup>rd</sup> Annual Show)  
"INNER BEAUTY"

## Nearby Shows to Visit

Nothing very close until after the Holidays. If you are traveling check Lapidary Journal for listings in the areas you will visit.

**As in prior years LGMC begins collecting DUES after November 1<sup>st</sup> and they are due by January 1<sup>st</sup>, 2001. If not paid by January 31, 2001 they will become delinquent and a penalty of \$5.00 each may be assessed. Dues schedules are printed on the inside cover of each Pick & Shovel. If you want our State Association Bulletin, The Gem Palette, please add \$3.25 per family so we can order it for you.**

**We will be ready to accept dues at the November meeting or you may mail them to your treasurer at the P. O. Box 5342, Lincoln, NE 68505. No monies may be handled at the December meeting in the City Park. Receipts will be delivered at the January Meeting. Thanks for your cooperation!**

**\*\*\* REMEMBER!! Each member bring a 'rock' for a great Silent Auction--or if you don't have a ROCK Just bring money so you can bid on one!!**

# YOUTH NOTES

No communication from your leaders at publication time so be prepared for a call or just come at 7 PM to find out what they have planned for you--and note that we will have a silent auction going during the meeting so come prepared.

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In September we had a very interesting program "Photo Atlas of Minerals" presented by Club Member Eric Fritsch. This program was based on a CD Rom which is available from the Los Angeles County Museum of Natural History. Those of you who saw it were impressed and Eric has provided us with information so that individuals may order it for themselves or for a friend. There is a price of \$49.95 on it plus \$5.00 for shipping and handling. There are also group discounts for ordering 5 or more, 10 or more and 20 or more. If enough persons wish to order we would be pleased to hear from you before or at the Christmas buffet on December 10<sup>th</sup> and get the best price we can. The program does require some special equipment to use and enjoy---a computer with color and sound as it displays and pronounces a great many of our world's minerals, listing locations, colors, characteristics and much more.

Our 'Thanks' to Eric for introducing this program to us.

---

## Stamps, Stamps, Stamps, Stamps, and more Stamps!!!

Please collect all of the used stamps (that are in good shape) and bring them to our club meetings. Grant Bennett, club member, Vice President, Old Timer's Club Member, and very busy person, is willing to accept them and forward to the right people who use them to advance our hobby in various ways. Grant has seen them used in interesting ways at some of the many shows he has attended in recent years. He has mentioned them in some of the 'Adventures' but this is a special request for all of the stamps to be brought for a huge presentation.

Editor

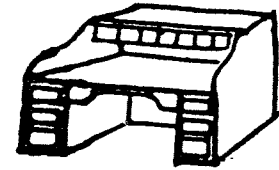
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### FRIENDLY CLUB RECIPE

1. Speak to people, even if you don't know their names.
2. Smile at people.
3. Call people by name.
4. Be friendly and helpful. (If you would have friends, be one.)
5. Be generous with praise, and cautious with criticism.
6. Be considerate of the feelings of others.
7. Be alert to give service, what we do for others counts most in life.
8. Add to this a good sense of humor, a generous dose of patience, a dash of humility.

CURRENTS via Chiasto and ???Pick & Shovel

## From The President's Desk



Hello LGMC Members

I want to give a special "Thank You!" to all who came to the October Meeting. We had good desserts and some came in costumes. We also had fun with the Gem Dig.

Well this is the next to the last message for me as President as we vote for the new officers at the November 18<sup>th</sup> Meeting.

Do to many articles for this Pick & Shovel I will keep it short. I want to give a special "Thank you" to all who gave programs, put on the shows, including the special activities at Pioneer Park, worked on Standing Committees. **Well Done!**

**I hope to see everyone at the November Meeting. We will have a Silent Auction. Bring something to contribute and/or plan to take a new specimen home with you.**

**Edward Ridge.**

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# THANKSGIVING

November 2000:

It's time for your Editor to express her appreciation to all of the persons who make my job easier each month when it is time for our Pick & Shovel to go to press. First of all there are the regular contributors who provide copy . Vera Lyman with her pretyped minutes ready to use. President Ed Ridge whose copy is ready by the deadline. Roger Pabian with his steady support of Educational Articles that are usually picked up by several of our Exchange Bulletins. Kay Jurgens who has provided many copy ready pages of great interest to more than the youth of the club. Brett Jurgens who will replace Kay starting with the October issue. Grant Bennett who has provided us with interesting Adventures as he attends shows all over the country. Eric Fritzsich who not only has written some very good articles but given us programs to write about. Thank you to Charlene Bingell who sent a copy ready page on one of her trips to a show. John Harrison for show input on the 2000 Show and Jim & Sharon Marburger who are doing the input for the 2001 Show that will be very soon now. Pete Crawford who assists in any computer problems (and taught me all that I know about computer, printers, etc.) Most of all, Jim Parks, who reads copy to me, proof reads and helps me make corrections, pastes up the copy so pages are neat and tidy, puts all labels and stamps in place, drives me to the copy center--not always just one time per bulletin--, staples, folds, then staples again and finally rushes me to the Post Office to get them on the way.

Bless all of you and **THANKS** for giving me the opportunity to do something that I enjoy so much.

Phyllis

## The Homestake Mine (SD) Announces Closure

The famed Homestake Gold Mine, located in Lead, South Dakota has announced (Sept 11, 2000) that it has started a 16 month long closure procedure and that mining will cease in the year 2001.

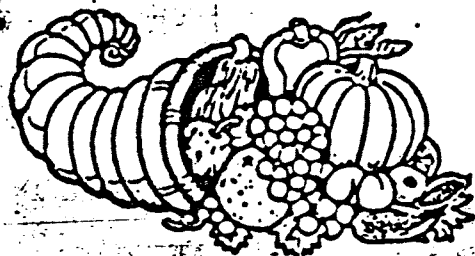
The Homestake Mine was first discovered on April 9<sup>th</sup>, 1876 by brothers Moses and Fred Manuel. Their finding of gold outcropping at the surface was called a lead (pronounced "leed") and the town that sprang up along this finding borrowed that name.

The Homestake Mine turned out to be the longest producing gold mine in the Black Hills as the almost-never-ending orebody followed the contorted Homestake Formation. Hundreds of miles of shafts, tunnels, and drifts form a chris-cross subterranean maze. Miners work 24 hours a day, to depths of over 8,000 feet below the surface. Without air conditioning, the temperatures would be unbearable at such depths.

In 1876 when the Manuel brothers first mined the Homestake they could produce an ounce of gold for less than \$20.67 (gold value in 1876); hence, it was profitable to mine and mining continued. Gold was still profitable to mine in 1967 when it was valued at \$35/ ounce. To mine the remaining 240,000 ounces of gold held in reserve next year, will cost an estimated \$237/ ounce (gold is currently valued at \$270/ ounce). It simply becomes an economical issue to close a mine when the ore costs more to mine than to sell it.

The Homestake Mine tightly controlled mineral specimens from leaving the mine. The mine inspected miners and had a policy of firing miners who pocketed specimens. Subsequently, there are very few mineral specimens in collections in comparison to the millions of tons of rock removed from the mine annually. Sphalerite, pyrite, strontianite, calcite, quartz, rutile, rhodonite, cummingtonite, arsenopyrite, pyrrhotite, arsenic, garnet, dolomite, and other minerals have been found at the mine.

In 16 months to come, the mine will turn off or remove massive pumps that keep the mine from flooding. Once the mine floods, it will be nearly impossible to ever go back to using the same mine.



Contributed by Eric Fritsch.

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - Oct. 4, 2000  
7:00 P.M. at Kinkos - Conference Rm. 48th & Vine

President called the Meeting to order with 7 Board Members present and 3 guest, Charlene Bingell, Jim & Sharon Marburger.

Minutes of the Sept Meeting were approved with motion by Phyllis P., 2nd by Dave H. Carried.

September Treasurer's report approved with motion by Vera L., 2nd by Jim A. Carried.

Current bills approved for payment with motion by Grant B., 2nd by Dave H. Carried.

OLD BUSINESS: The subscription to "Rock & Minerals" for UNL Geology Dept. is paid up to 2002.

Grant Bennett read the report on State Delegates Meeting. It will be in the Pick & Shovel.

NEW BUSINESS: Question of yearly scholarship deposit to Foundation. Dr. Smith reported that UNL Foundation unhappy with small amount we deposit each year because they do not invest small amounts. They would like us to invest the entire CD with them. Treasurer suggested that Board recommend that we keep the CD account ourselves; UNL would still make out check for 2001, but hereafter we will make out our own checks. UNL would still send list of students for us to choose from. Majority of Board approved recommendation.

At State Delegates Meeting, it was decided that \$ 13.75 be contributed to Gem Palatte to cover postage when Show Flyers are inserted.

Grant Bennett also requested that cancelled stamps be forwarded to him as often as possible for MWF.

MEETINGS: Oct. 28 7-10 PM at Bethany Park - Halloween-coffee/desserts  
Nov. 18 7-10 PM at NE Center - Annual Election  
? = Possibility of Silent Auction? Bring donations.  
Dec. 10 5-9 PM (Eat at 6:00 P.M.) Christmas Buffet-Rock Bingo  
Antelope Park Shelter

#### COMMITTEE REPORTS:

2001 Annual Indoor Swap in Jan. - with Silent Auction, Coffee, Ann. Cake at NCCE

2001 Show Report: Jim Marburger, Chairman

14 Dealer contracts out, 11 contracts back; "Prisma" not returning as reported by Dealer Chairperson, Sharon M.

Flyers at all shows, ad in Lapidary Journal, Rock & Gem. 3 Special Features contacted.

The Pick & Shovel deadline for Nov. copy will be Oct. General Meeting.  
Next Board Meeting THURSDAY NOV 2 @ 7:00 PM.  
Meeting adjourned.

Respectfully submitted,

*Vera Lyman*  
Vera Lyman, Secretary

LINCOLN GEM & MINERAL CLUB, INC. - GNEERAL MEETING - Oct. 28, 2000  
 7:30 P.M. - Bethany Park  
 Halloween - Coffee and desserts.

15 members and 1 youth present.

President called the meeting to order. Minutes of the Sept. Meeting as printed were approved with motion by Shirley R. 2nd by Billie H. Carried.

Treasurer's report approved as printed with motion by Poger P. 2nd by Shirley R. Carried.

NO OLD BUSINESS

NEW BUSINESS: Question of purchasing DVD which was presented for our September Program by Eric Fritsch on "Minerals". It was an excellent program. Treasurer Phyllis Parks had details and price/s. Anyone needing information, please contact her.. Suggestion made by Susan Taylor that the Club purchase copies for public Library.

COMMITTEE REPORTS AND MEETINGS:

No Show Report. Chairman at a Show in Tulsa OK.

Nov. Meeting - Nov. 18, at 7:30 P.M. NCCE at 33rd & Holdrege.  
 (a week early to avoid the Thanksgiving weekend)

Dec. 10 - 5-9 P.M. (supper at 6) at Antelope Park Shelter

CHRISTMAS PARTY chaired by Suzy McMahan

Club members bring covered dishes, Ham & Turkey furnished by Club.

Bring own table service. Play "Rock Bingo". Bring neat prizes.

Jan 2001 SWAP will be chaired by David & Charlene Bingell.

2001 Show - Detailed report in Oct. Pick & Shovel.

NOV. BOARD MEETING - THURSDAY NOV. 2 at 7:00 P.M. at Kinkos.

Deadline for December Copy for Pick & Shovel - Nov. 25, 2000 so it can be mailed by December 1. (10 days before the Christmas Party-Meeting)

Meeting adjourned. Those present enjoyed hunting through gravel for that precious "FIND"!

Respectfully submitted,

*Vera Lyman*

Vera Lyman, Secretary

**LGMC Treasurer's Report for October 2000**

**Pinnacle Bank Checking Balance 10/1/ 2000**

**\$5313.38**

Receipts:

2001 Show Dealer Space

800.00

Payments

October Board Meeting

12.50

Print October Pick & Shovel

37.62

Special Lapidary Class Equipment Fund

368.52

418.64

Checking Account Balance October 31, 2000

**\$ 5694.74**

## Alexandrite

By Roger K. Pabian

While preparing for a lecture in the fall of 1999, I was going through a group of tourmaline crystals to find an example that showed strong pleochroism. Pleochroism is a phenomenon displayed by several minerals including corundum, beryl, some quartz and chrysoberyl among others. Pleochroism is caused by the unequal absorption of the two or three parts of a doubly or triply refracted beam of light producing two or three different colors when viewed through a dichroscope.

Dichroism results when the beam of light is broken up into two parts and trichroism results when the beam of light is broken up into three portions. Since I was going to lecture on tourmaline, I was searching for a dichroic stone. I found a nice example that showed a strong color change from red to blue in the two windows of the dichroscope. After I got the lecture prepared, I went to re-check the hands on samples I was going to use. I put the little piece of dichroic gem up to the light and looked at it through the dichroscope again. The color change was now yellow and blue. Just a few minutes ago, it was red and blue. I rotated the stone about 90 degrees and the color change was red and blue. The stone I was going to use for an example of dichroism was trichroic. It wasn't tourmaline. The body color of the stone was blue-green under fluorescent light. I then looked at the stone under incandescent light and the body color was red. The piece of "tourmaline" was really a nice piece of alexandrite.

Physical and optical properties of crystals and the use of an instrument called a dichroscope makes it possible to detect the color changes you need to detect in order to identify some gems.

Pleochroic (dichroic and trichroic) minerals crystallize in the tetragonal, hexagonal, orthorhombic, monoclinic or triclinic systems. They do not occur as aggregates or isometric crystals. The tetragonal and hexagonal crystals have two refractive indexes – they are doubly refractive. The orthorhombic, monoclinic and triclinic crystals have three refractive indexes – they are triply refractive. Light beams entering dichroic crystals are broken up into two beams and those entering trichroic crystals are broken up into three beams. The light beams are bent differently when they enter the crystals and travel at different velocities in different directions through the crystal. The numerical expression for these differing velocities of light are called the refractive indexes — that is, the velocity of light in air divided by the velocity of light traveling through the crystal.

Some crystals have the property of being able to absorb or transmit light of varying wavelengths along different directions in the crystal. This is the cause of pleochroism.

The gemologist uses an instrument called a dichroscope to detect pleochroism. The dichroscope has two oriented calcite prisms. One of the prisms displays the beam of the absorbed wavelength and the other displays the beam of the transmitted wavelength. If you rotate the stone or dichroscope the colors in the windows will change places. Placing two pieces of Polaroid material oriented at 90° to one another and mounted in a slide holder can make a simple dichroscope. I use this kind of dichroscope in all of my lectures as it is easier to handle and less fragile.

Alexandrite is a variety of the mineral chrysoberyl, a beryllium aluminate,  $\text{BeAl}_2\text{O}_4$ , sometimes seen written as  $\text{BeO} \cdot \text{Al}_2\text{O}_3$  or  $\text{Al}_2(\text{BeO}_4)$ . Chrysoberyl is about 8.5 hard and has a specific gravity of about 3.70. It is quite tough and also comes in transparent yellow, yellow-green and chatoyant cats eye varieties.

The strong color change of alexandrite is due to the fact that the crystal absorbs all of the wavelengths of visible light from orange through yellow-green. Daylight and fluorescent lights are rich in the shorter blue and green wavelengths of light and these impart the green or blue-green color to alexandrite. On the other hand, incandescent light and candle light are rich in the longer red wavelengths and this imparts a red or purplish-red color to the alexandrite. The color change in alexandrite is sufficiently strong that you don't need a dichroscope to view it.

Alexandrite was first observed from the Ural Mountains in Russia but these sites provide few stones in modern times. Other very important occurrences have been in Sri Lanka and Zimbabwe (Rhodesia). Burma, Brazil, Malagasy Republic (Madagascar), Tasmania and the United States have also produced some stones. Several years ago some cats eye alexandrites were recovered from Brazil but these were mostly very small stones.

Some synthetic corundum was at one time offered as synthetic alexandrite. These stones were of gray body color in daylight and purple in incandescent light and could not be mistaken for the genuine stones.

continued next page

Synthetic spinel that changed from green to red from daylight to incandescent light has been offered to the gem trade. These stones show no dichroism, however.

Flux grown synthetic alexandrite has been produced in Russia. Schmetzer and others (1996) detailed crystallo-graphic, physical, chemical properties of these stones. These stones can be very difficult to separate from the natural ones and the gemologist may have to use X-ray fluorescence or infrared spectroscopy to separate them.

Alexandrite is perhaps one of the rarest gems. I have encountered very few, either natural or synthetic. It an alternate birthstone for June, sharing the honors with moonstone and pearl.

#### References

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Liddicoat, R., 1989. Handbook of Gem Identification, 12th Printing, Second Revised Edition, Gemological Institute of America, Santa Monica, California, 364 p.

Schmetzer, K., Peretti, A., Medenbach, O., and Heinz-Jurgen, B., 1996. Russian Flux-Grown Synthetic Alexandrite. *Gems and Gemology*, v. 32, no. 3, Fall, 1996, p. 186-202.

Schuman, W., 1977. *Gemstones of the World*. Sterling Publishing Company, New York, 256 p.

Shipley, R. M., 1971. *Dictionary of Gems and Gemology*. Sixth Edition. Gemological Institute of America, Los Angeles, California, 230 p.

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## ADVENTURES BY GRANT

Off very early Wednesday morning the 12<sup>th</sup> of October for Moab, Utah. Reached Idaho Springs the first night. Next day on to Moab. The Moab Valley Inn was easy to find. Had a message from our friends from California already. The date for the show was 12-15 Oct., 2000. This show was also for the installation of officers for both the American and the Rocky Mountain Federation. Hosted by Moab Points and Pebbles Club. Did find out that all the gem and mineral clubs of Utah had a part in setting up and running the show. Looked over the show on the 13<sup>th</sup>. Lots of space, heard a comment that they could have had more dealers. One thing I first noticed was the dirt floor. But even at that there was no dust inside. Not even on the tables and cases.

There were twenty dealers and eight demonstrators. Which consisted of faceters, egg decoration, chain making, wire wrapping, flint knapper, pet rock painting, steam casting, and sphere making. A very good display of spheres both large and small. A touch and feel table, spinning wheel, and a busy silent auction. There was a total of 164 cases of which 39 were competitive. Very nice cases, a lot of work put in them.

On the 14<sup>th</sup> there were 2 field trips of a dozen cars, 4x4's and trucks each. The leader of the trip that my California friends went on took us to 3 different areas. The first was for a red agate with black spots and a green ring around the black spot. The 2<sup>nd</sup> place we went to was to find red, green and yellow jasper. We did luck out there. The 3<sup>rd</sup> place was to find alabaster. There was more than enough for everyone. The pieces were of all sizes. This was white alabaster. Later found out that there was some pink. In getting back to the show we had put 110 miles on the suburban. Tired but happy with a lot of rock to look at.

The 14<sup>th</sup> was my day to care for the Old Timers table. Sold some pins, patches, and cook books. Did take in some dues but failed to gain any new members. At 8 o'clock the morning of the 15<sup>th</sup> a joint meeting of the Old Timers Mineral Club and the Rolling Rock Club. The two have the same interest in promoting gems and minerals. A total of 54 people showed up. A lot of upcoming shows were announced. Some Sunday morning jokes were told and an auction was held. Ruth, my wife, even got into the bidding. Way to go girl. Meeting closed and a lot of friendly chatter then back to the show.

Ruth and I already packed and ready to start for home. Great scenery all along the way. Got to Denver then the rest of the adventure began. I misread the map and took a wrong turn. When you see me again ask me about a part of the residential section of Denver. Oh well, such is the spice of life. Stopped for the night at Fort Morgan. Then on to Lincoln and home.

See you down the road at a future show.

## 2000 Elected Officers

<b>President</b>	Edward Ridge,	2507 A Street,	Lincoln, NE 68502	477-8469
<b>1<sup>st</sup> Vice Pres.</b>	Jim Atkins,	3028 So. 35th St.	Lincoln, NE 68506	483-1610
<b>2<sup>nd</sup> Vice Pres.</b>	Grant Bennett,	721 No. 58 <sup>th</sup> St.	Lincoln, NE 68505	466-5377
<b>Secretary:</b>	Vera Lyman,	420 N. 56th St.	Lincoln, NE 68504	464-6089
<b>Treasurer:</b>	Phyllis Parks,	2435 So. 19th St.	Lincoln, NE 68502	476-6798
<b>Board Member:</b>	Kenneth Doe,	925 El Avado Avenue	Lincoln, NE 68504	466-4877
<b>Board Member:</b>	David Heffelbower,	1819 Washington St.	Lincoln, NE 68502(ceil)	499-2970
<b>Board Member:</b>	Brett Jurgens,	14421 Danvers St.	Waverly, NE 68462	786-2756
<b>Board Member:</b>	Susan McMahan,	5636 Greenwood St.	Lincoln, NE 68507	464-0065

## Nominating Committee

<b>3 years</b>	Jim Parks
<b>2 years</b>	Charlene Bingell
<b>1 year:</b>	Jerry Moore
	Kevin Schwartzman
	Roger Pabian
	Bill Rockel

**Chairman:** Past President Charles Woodriddle

## Long Range Planning & By-Laws Committee

<b>3 years:</b>	Charles Woodriddle, Chairman
	Kevin Schwartzman
<b>2 years:</b>	David Heffelbower
<b>1 year:</b>	Jim Parks
	Vera Lyman
	Roger K. Pabian

## Standing Committees

<b>Membership:</b>	Shirley Rockel	<b>Programs:</b>	David Heffelbower
<b>Education:</b>	Roger Pabian	<b>MWF Liaison:</b>	Vera Lyman
<b>Field Trips:</b>	? Coordinator	<b>Scholarship:</b>	Susan Taylor
<b>Historian:</b>	Susy McMahan	<b>Christmas Party</b>	Susy McMahan
<b>Hospitality:</b>	Charlene Bingell		
<b>Study Coordinator?:</b>		<b>2000 Show:</b>	John Harrison
<b>Housing/Property:</b>	Jim Parks	<b>2001 Show:</b>	Jim Marburger
<b>Youth Activities:</b>	Kay Jurgens	<b>2001 Swap:</b>	Charlene & Daavid Bingell
<b>Librarian:</b>	Roger Pabian	<b>2000 Swap:</b>	Charles Woodriddle
<b>Auditing Committee?:</b>	Jerry Moore, Mike Jurgens, Francis Belholovy		

**Gem Palate Correspondent:** Grant Bennett

**Geology Day Coordinator:** 2nd Vice President

L. G. M. C. Web Page Address: <http://nesen.unl.edu/igmc/igmc.html>

## Your PICK & SHOVEL Staff

<b>Publisher:</b>	Lincoln Gem & Mineral Club, Inc., P.O. Box 5342, Lincoln, NE 68505-0342
<b>Editor:</b>	Phyllis Parks 476-6798
<b>Business Reporter:</b>	Vera Lyman 464-6089
<b>News Reporters</b>	All Club Members
<b>Circulation:</b>	Jim Parks 476-6798

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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.

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## IT'S TIME

TO START THINKING ABOUT

LINCOLN GEM 7 MINERAL CLUB'S

43<sup>rd</sup> Annual Show  
at

PERSHING MUNICIPAL AUDITORIUM

March 24 - 25, 2001

"INNER BEAUTY"

Show Chairman - James Marburger

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)

Junior (ages 12 to 16)

Family Membership (Husband, wife, resident children under age 16)

\$10.00/year

\$2.00/year

\$22.00/year

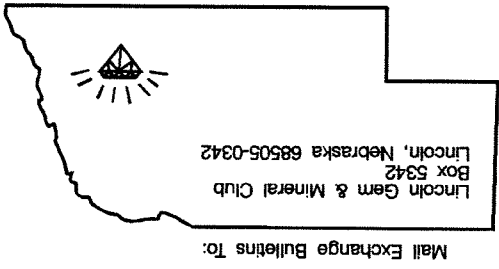
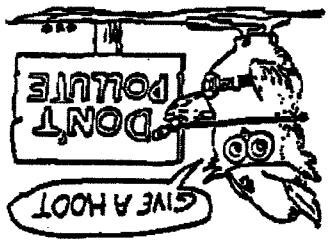
New memberships must be approved by the Board, after the applicant attends at least one meeting of the club and pays the above dues plus a \$5.00 registration fee.



*W. Johnson*

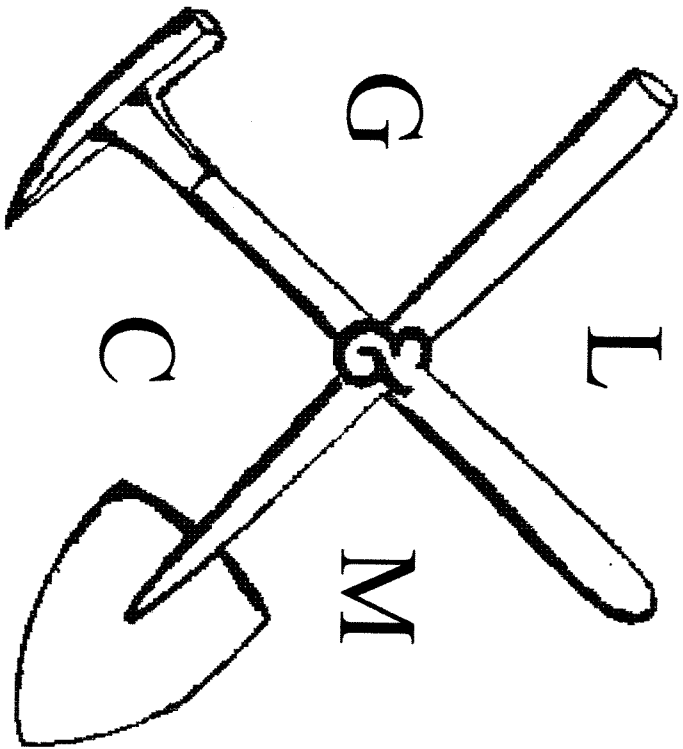
Help Eliminate Litter Please

**H. E. L. P.**



# THE PICK & SHOVEL

November 2000



OFFICIAL PUBLICATION OF

LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA