

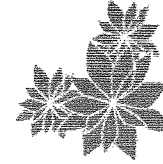


### Christmas Buffet & Meeting

Sunday December 10, 2000 - 5 to 9 PM  
Antelope Park Shelter - 31<sup>st</sup> & Sumner



Meats, Coffee & Cups provided by L G & M Club  
Hot Dishes, Salads & Desserts  
(provided by YOU-the club members)  
Please bring your own table service!



Bring a wrapped gift for Exchange if you wish.

Program: **ROCK BINGO**- Please bring a nice Gem, Mineral, Fossil, or Crystal for prizes.

Youth: The Buffet is for all members. Bring your family, your Christmas food to share and join in the festive occasion.

Please add these new members for 2001 and add them to your Who's Who for 2000.

A big **WELCOME** to:

Fields, David 486-3911  
1320 Peach St., Apt. 1  
Lincoln, NE 68502

Rose, Philip & Patricia 489-2123  
3623 S. 77<sup>th</sup> St.  
Lincoln, NE 68506

Stewart, Aulden 483-1044  
3028 Cable Ave.  
Lincoln, NE 68502-3229

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



January 2001 Meeting: Saturday, the 27<sup>th</sup>, Swap at 1 PM, Meeting at 7:30 PM. See Flyer Pg.4

## DUES ARE DUE

### Silversmithing/Jewelry Making Classes

with Anne Goddard at

The Burkholder Project - Historic Haymarket District  
719 'P' Street  
Lincoln, NE 68508

- ◆ First class begins Tuesday, January 9, 2001
- ◆ Each class lasts 8 weeks - 1 day/week, from 6-9pm
- ◆ Beginning & Advanced students: limited to 8 students/class
- ◆ \$100 per class: includes studio supplies, except metal
- ◆ Tool kits available for class rental (\$25 plus deposit)

Please call: (402) 476-7475 or (402) 328-9610

*Anne*

# Friends

A friend is one you love and trust  
And tell your secrets to  
They never note the way you dress  
They like you because you are you.

They never stand and criticize  
The things you have done  
They just pat you on the back  
And say you are number one.

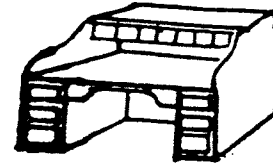
They never say you are looking old  
Or gaining too much weight  
They laugh at all your silly jokes  
And make you feel great.

If they find you down and out  
And feeling sorta blue  
They'll give you their last dollar  
Without an I.O.U.

We made good friends and kept them  
As we walked along the way  
And the meaning of their friendship  
Makes this a special day.

Thelma Rogers Bell

## From The President's Desk



Hello LGMC Members

I want to first of all wish "Seasons Greetings" and "Happy New Century" to you. We hope next year is better than this year.

Second I want to remind you that our Christmas Buffet is Sunday December 10<sup>th</sup> from 5 to 9 PM. The club will provide the coffee, cups, and meats. Each family can bring something like a hot casserole, salad or dessert and your own table service. Susy McMahan is chairing the event and will have Christmas decorations. I will bring the tree to put gifts under so wrap up a gift and get one in exchange. No need to mark unless it is specifically for a male or female. We will entertain ourselves with 'Rock Bingo' so please bring something nice for prizes.

Well this is my last President's Letter before I put away paper, dictionary, spell checker and this typewriter. It has been an interesting two years with some bad times. I don't say too much about the bad times as that is not my way.

I am Chairman of the Display Committee for the 2001 Show so will be asking who is going to display at the January Meeting.

I hope to see you all on December the 10<sup>th</sup> at the Christmas Buffet.

Edward Ridge.

---

Lets all give a big **THANK YOU!!** To our retiring President, Ed Ridge, as he puts away his gavel & pen and returns to his usual supporting activities with the club. Ed has always been there when ever help was needed. His participation and dedication have been exceptional.

We must also give a big Thank You to Kenneth Doe who served so willingly on the Board and was of great help before illness struck. Get Well soon Ken so we can once again have your input at the meetings.

Thank You! Kay Jurgens for your many hours with our Junior group for so many years. We know you will probably be on hand to help Brett and the Youth in the coming year, just as we know that your duties at home and at Waverly School have been exhausting.

Now we must give our help and support to the newly elected officers and board for 2001. Please say yes if you are asked to head a committee or chair an event. Attend meetings, lend a hand, be a good member and appreciate those who accept leadership roles.

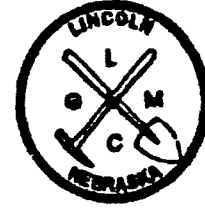
Editor

Also, please accept my apologies for the lateness of your Pick & Shovel. Jim is doing very well but his doctor does not want him to drive for a month so we will be stay-at-homers. Phyllis

**Lincoln Gem & Mineral Club**  
Cordially Invites You To Attend  
It's  
23<sup>rd</sup> Annual Midwinter



# SWAP



**Saturday, January 27<sup>th</sup>, 2001**

**Scottsbluff-Minden Rooms**

**Nebraska Center for Continuing Education**

**33<sup>rd</sup> & Holdredge Streets**

**Lincoln NE**

**1:00 PM - 5:00 PM**

**Trade Gemstones, Minerals, Lapidary Equipment,  
Rough Gem Material, Faceted Stones, Findings, Fossils, Crystals,  
Finished Jewelry, Agates, Everything Related to the Rock Hobby.**

**Free Coffee, Kids' Activities  
Silent Auctions**

**Swapper Dollars Available at 10% Surcharge**

**Lincoln Gem & Mineral Club's 47<sup>th</sup> Anniversary Meeting will be at  
7:30 PM after the SWAP. Visitors are welcome.**

**For further information:**

**David & Charlene Bingell, Co-Chairs, Ariana Bingell, Junior Chair  
(402)-441-1588**

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - Nov. 2, 2000  
7:00 O.M. Kinkos - Conference Rm. 48th & Vine

Six Board members present and 1 visitor; Roger Pabian.

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

Treasurer's report approved with motion by Dave H., 2nd by Grant B. Carried.

Recommendation to General membership to contribute \$ 50. to Fort Robinson Museum & Encounter Center.

Motion by Phyllis P. and 2nd by Jim A. to approve purchase of meats for annual Christmas Party. Motion carried.

Subscriptions to "Gem Palette" for members is \$ 3.25; for non-members it is \$ 5.00.

NEW BUSINESS: Grant Bennett inquired whether we have someone who makes our Club name badges. Yes, we do. They are \$ 7.50 ea. Also, please save your cancelled stamps and give them to Grant so he can forward them to MWF.

Also, some are inquiring about purchasing a copy of program Eric Fritsch presented at Sep. Meeting. Also, a motion made by Dave H. and 2nd by Jim A. to purchase copy for Lincoln Public Library. Motion carried. Will check on specifics with Eric F.

Roger P. also announced that he was planning to have the Lapidary Class work at our Annual Show.

#### MEETINGS:

Nov. 18 @ NE Center - General Election. Also will be haveing Silent Auction. Proceeds going to Special Lapidary Fund.

Dec. 10 (Sun) - @ Antelope Shelter - Christmas Party, 5-9P.M. (Eat @ 6PM) Buffet - Each family bring covered dish, salad or dessert & own table service. Please bring "rock prize" for Bingo and gift (if you wish to exchange).

Jan 27, 2001 - NE Center - 1-5 P.M. Swap, Meeting at 7:30 with Silent Auction and Anniversary Cake.

Feb 18, 2001 - Geology Day

July 22, 2001 - Grinding Party

Pick & Shovel Deadline for December copy is Nov 25 or no later than Nov 29 BOARD MEETING. Please note - Board Meeting is a week early because of early mailing for Pick & Shovel. It will be held at Kinkos.

Respectfully submitted,

*Vera Lyman*

Vera Lyman, Secretary

#### LGMC Treasurer's Report for November 2000

Pinnacle Bank Checking Balance 10/31/ 2000

\$ 5694.74

#### Receipts:

Membership Dues & Registration	202.00	
Suspense for Subs to Gem Palette	32.75	
Silent Auction for Spec.Lap.Equip.Fund	139.75	
2001 Show Dealer Space	<u>400.00</u>	774.50

#### Payments:

Misc. Secretary Expense	85.27	
November Board Meeting	10.00	
Print November Pick & Shovel	28.95	
Misc. Treasurer's Expense	<u>12.39</u>	<u>136.61</u>

Pinnacle Bank Checking Balance 11/29/2000

6332.63

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING - Nov. 18, 2000  
7:30 P.M. NCCE Beatrice Rm.

Present - 16 Adults 1 Junior 9 Guests (as follows)  
Kay & Joel Mead, Ruth Bennett, Aulden Stewart, Violet Brown,  
Philip & Patricia Rose, Nathan Christinsen and friend Aaron

Phyllis Parks was absent , due to Jim being ill and in Hospital. We wish him well.

"Pledge of Allegiance" lead by Grant Bennett.

Minutes of Oct Meeting approved with motion by Shirley Rockel, 2nd by Adeline Nolde. Carried.

Treasurer's report approved with motion by Grant B., 2nd by Suzy M. carried.

NO OLD BUSINESS:

NEW BUSINESS: Board had voted to purchase a copy of Eric Fritzsch's Sep program for Main Public Library. Members decided to purchase one also for each Branch plus 2 proposed new branches.(total of 9) plus contact NE Academy of Science to see if they are interested in copy. Motion made by Susan Taylor. 2nd by Dave H. Carried.

This would give access to more people on-sight if they do not have the necessary equipment at home.

Also announced that Eric And wife have a new son; born on Nov 9. Congratulations!

ELECTION: Roger Pabian acting on Wooly's behalf due to illness. Roger read the names of the nominees for office for 2001 as follows:

President - Jim Atkins  
1st Vice President - Grant Bennett  
2nd Vice President - Susan McMahan  
Secretary - Vera Lyman  
Treasurer - Phyllis Parks  
Board of Directors - (4)  
Charlene Bingell  
Dave Heffelbower  
Brett Jurgens  
James Marburger

No further nominees from the floor. Motion by Susan Taylor that Ballot be accepted as printed. 2nd by Roger Pabian. Motion carried.

Two nominees named for Nominating Committee: They were:

David Bingell and Billie Heffelbower

Motion to accept by Grant Bennett. 2nd by Roger Pabian. Carried.

Roger P. thanked Adeline Nolde for her special contribution to the Special Lapidary Fund, making the purchase of some new equipment possible.

COMMITTEE REPORTS: Christmas Party - Suzy McMahan  
Sun. Dec. 10, 5-9 P.M. (Eat @ 6) Antelope Park Shelter Drinks and meat furnished. Bring covered dish, salad or dessert and table service. Please bring "rock" prize for Bingo and gift if you wish to participate.

JAN SWAP - Charlene Bingell  
Jan 27, 2001 1-5 P.M. NCCE - Scottsbluff/Minden Rms. - Silent Auctions Meeting at 7:30 P.M. with Silent Auction & Anniversary Cake.  
Meeting Adjourned. Followed by 3 "ACTIVE" Silent Auctions and Secretary accepted 2001 Membership dues for Treasurer and subs to "Gem Palette".

Respectfully submitted.

*Vera Lyman*  
Vera Lyman, Secretary

The Most Common Mineral

Contributed by Eric Fritsch

What is the most common mineral in the world? This is a tricky question. If you were to ask what is the most common mineral on the surface of the earth-- it would have to be ice, if you include its molten form (water). Feldspars, carbonates, amphiboles, clays, and quartz are also common minerals at the surface of the earth.

When it comes to describing the most common mineral in the earth we have to look at the volume or size of the mantle. The mantle, the middle part of the earth, is much larger than the crust or core combined. The mantle is a toothpasty mix of minerals and molten material. No one has ever collected there but geologists do have a good idea of its composition.

Through the examination of meteorites, geophysical waves, xenoliths in kimberlites, and other methods, the mantle is thought to consist of  $\text{CaSiO}_3$  in a perovskite structure ( $\text{ABX}_3$ ).

True perovskite ( $\text{CaTiO}_3$ ) is a fairly uncommon mineral in most collections. It is found in skarns, basic or alkalic intrusive rocks, feldspathoidal pegmatites, and other environments. Closest to us, it can be found in Magnet Cove, Arkansas (often called dysanallite, a niobium-rich variety). It is also found in New York, Kentucky, Montana, Colorado, Brazil, Italy, Switzerland, Pakistan, and Germany. Some truly extraordinary specimens have recently come out of the Kola Peninsula, Russia, near the recently sunk Russian submarine.

Perovskite was first described by in the 1800's and named for Count Lev Aleksevich von Perovski, a Russian mineralogist. For the next 100 years it was little more than a curiosity mineral and a minor ore of niobium, tantalum, and titanium.

In the middle part of the last century, some curious properties were noted in perovskite and perovskite-like synthetic crystals. One of the fascinating properties of 'perovskites' is how they react and charge to electrical stimulation.

Some minerals, like copper, are good conductors of electricity; it is a bad idea to stick your Keweenaw copper specimens into your electrical wall socket if you are holding the other end.

Other minerals are good insulators of electricity. Glass, non-crystalline quartz, is used to insulate wires on telephone poles (I still wouldn't recommend sticking your quartz crystals into your light socket to 'see' what would happen either). Mica, feldspar and a host of other minerals are also used as insulators.

Based on the natural structure of perovskite, material scientist created synthetic versions of perovskite--substituting other elements for calcium, titanium, and even oxygen. 'Perovskites' are commonly semi-conductors. When a charge is applied to the crystal, it absorbs the energy by distorting its structure (this is on an atomic scale and we wouldn't see anything if we put a perovskite into a light socket). The crystal releases energy, evenly, when the current is no longer produced. These 'perovskites' are the basis of the \$20 billion a year electro-ceramic industry.

Practically every person in the United States uses synthetic 'perovskites' each day. 'Perovskite' capacitors are found in loudspeakers, microphones, buzzers, pressure gauges, televisions, surge-protectors, scanning electron microscopes, and many other electrical devices. 'Perovskite' has replaced the old fashion "tubes" once found in computers and made them smaller, more reliable, faster.

We take so much of modern, technological, world for granted. We "flick-on" a switch and light magically appears in a darkened room. Our homes and offices are filled with seemingly simple items that are made possible, not by some company with a catchy jingle, but by minerals.

<b>2001 REGIONAL SHOW SCHEDULE</b>
------------------------------------

**EASTERN FEDERATION**

July 13-15

Syracuse, New York

**AFMS/SOUTH CENTRAL****FEDERATION**

June 11-17

Arlington, Texas

**ROCKY MOUNTAIN FEDERATION**

June 8-10

Roswell, New Mexico

**CALIFORNIA FEDERATION**

June 22-24

Paso Robles, California

**NORTHWEST FEDERATION**August 20-Sept. 1  
Enumclaw, Washington**SOUTHEAST FEDERATION**

November 2 - 4

Pascagoula, Mississippi

**MIDWEST FEDERATION**

Sept. 7-9

Rice Lake, Wisconsin

**MIDWEST FEDERATION OF MINERALOGICAL & GEOLOGICAL SOCIETIES**  
 Member of the American Federation of Mineralogical Societies  
**OFFICERS 2000-2001**

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 dstone@misslink.net

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John Blue  
 16155 Shurmer  
 Strongsville OH 44136  
 440-238-4412

**2ND VICE PRESIDENT**

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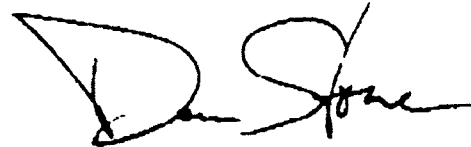
Kitty Starbuck  
 7636 V Avenue East  
 Vicksburg MI 49097-9307  
 rocks93312-aol.com

### PRESIDENT'S REPORT

The AFMS/RMF Show and Convention was held from October 11-14 in Moab, Utah. Willis Smith and I represented the MWF as directors of AFMS this year. Kathy Miller attended as AFMS Third Regional Vice President. Others included: Marve and Kitty Starbuck; Anne Cook; Bob Miller; Margaret and Bob Heinek; Marge Collins; and Barbara Sky. These people extended themselves and attended meetings and represented the MWF and should be applauded for their hard work and contributions.

While attending the Show and Convention, one point that was repeatedly brought up should be stressed. That is the fact that with the coming year included, the AFMS Scholarship Foundation will have provided a MILLION DOLLARS worth of scholarships over the course of its existence. This point can not be over emphasized. It is sometimes asked what good do we do as an organization? Plenty-and this is a prime example of what a positive impact we can have on others. The scholarships that are granted by the Federation directly aid students who are interested in a geological related field for their occupation. These young men and women will remember where the help came from. We should remember that we can and should do more. We have made a difference.

During the show at Moab, several field trips were available. Willis had flown out from St. Louis and was driving a small rental car. Since I drove out in our Jeep, Willis rode shotgun with me on a couple of trips. We had great guides and wonderful weather. Willis thought I was getting us lost in an area called Yellow Cat Flat, where a number of abandoned uranium mines are located. We didn't get lost, and we got out of there with very fruitful results. Willis was boundin g over hills and hollows looking for agate, petrified wood, and dinosaur dung. We had a great time. The simple point I am trying to make is that sharing your rock collecting experience with your club members is what the MWF is all about - great finds, friends and fellowship.



Dean Stone

**Happy  
 Holidays!**

## 2000 ELECTED OFFICERS

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

## Nominating Committee

3 years	Jim Parks
2 years	Charlene Bingell
1 year:	Jerry Moore
	Kevin Schwartman
	Roger Pabian
	Bill Rockel

Chairman: Past President Charles Woodriddle

## Long Range Planning & By-Laws Committee

3 years:	Charles Woodriddle, Chairman
2 years:	Kevin Schwartman
1 year:	David Heffelbower
	Jim Parks
	Vera Lyman
	Roger K. Pabian

## Standing Committees

Membership:	Shirley Rockel	David Heffelbower
Education:	Roger Pabian	Vera Lyman
Field Trips:	? Coordinator	Susan Taylor
Historian:	Susy McMahan	Susy McMahan
Hospitality:	Charlene Bingell	
Study Coordinator:?		John Harrison
Housing/Property:	Jim Parks	Jim Marburger
Youth Activities:	Kay Jurgens	Charlene & Daavid Bingell
Librarian:	Roger Pabian	Charles Woodriddle
Auditing Committee:?	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

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

# J. J. & L. ROCKS and MINERALS

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"PROVIDING SUPPLIES FOR THE NOVICE TO THE DISCRIMINATING ROCKHOUND"  
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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)	\$10.00/year
Junior	(ages 12 to 16)	\$2.00/year
Family Membership	(Husband, wife, resident children under age 16)	\$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.

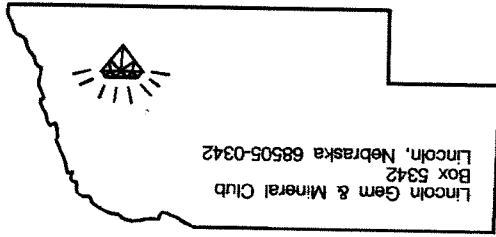
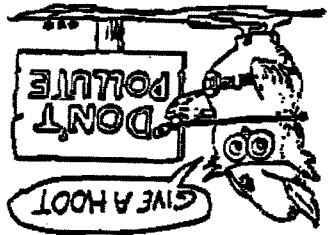


Associated with



Help Eliminate Litter Please

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



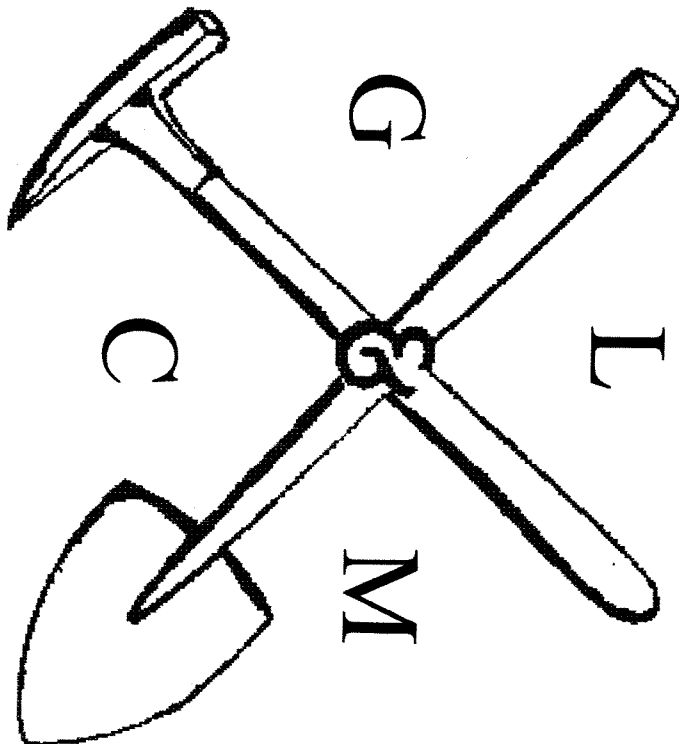
Lincoln Gem & Mineral Club  
Box 5342  
Lincoln, Nebraska 68505-0342

Mail Exchange Bulletins To:

*Hickman*

# THE PICK & SHOVEL

December 2000



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LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA