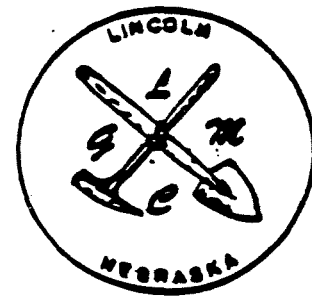


THE PICK & SHOVEL



FEBRUARY
1988

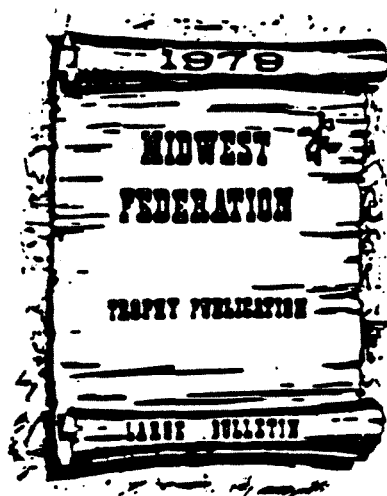
In this issue...

... RAYS OF SUNSHINE

SPECIAL AWARDS

YOSEMITE NATIONAL PARK

Bits of Exchange



OFFICIAL PUBLICATION OF

Lincoln Gem and Mineral Club, Inc.

P. O. Box 5342

Lincoln, Nebraska 68505

LINCOLN GEM AND MINERAL CLUB, INC.
P.O. BOX 5342, LINCOLN, NE 68505-0342

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.

MEMBER: American Federation of Mineralogical Societies (AFMS)
Midwest Federation of Mineralogical and Geological Societies (MWF)
Nebraska Association of Earth Science Clubs, Inc. (NAOESCI)
Nebraska Academy of Science (NAS) (Life Membership)
Friends of the Museum

Regular Meetings: 4th Saturday of the month, September thru May; 7:30 P.M.
At Nebraska Center, 33rd & Holdrege

1988 ELECTED OFFICERS:

President.....Kevin Schwartman	1134 West Avon Ln Lincoln, 68505	464-3059
1st Vice Pres.....Fred Holbert	2822 S. 13th St. Lincoln, 68502	423-5639
2nd Vice Pres.....Jim Parks	2435 S. 19th St. Lincoln, 68502	476-6798
Secretary.....Vera Lyman	420 N. 56th St. Lincoln, 68504	464-6089
Treasurer.....Phyllis Parks	2435 S. 19th St. Lincoln, 68502	476-6798
Board Member.....Dave Heffelbower	1819 Washington Lincoln, 68502	475-4713
Board Member.....Gerald Moore	2305 S. 35th St. Lincoln, 68506	489-4184
Board Member.....Shirley Rockel	1134 West Avon Ln Lincoln, 68505	464-3059
Board Member.....Tom Simmons	2970 South St. Lincoln, 68502	488-1619

NOMINATING COMMITTEE -- 3 years: Phyllis Parks, Janet Wright
2 years: Dave Heffelbower, Claude Scott
1 year: Irl Everett, Claude Scott
Linda Parks, Chairperson

LONGE RANGE PLANNING AND BY-LAWS COMMITTEE:

1 year - Jim Taylor, Irl Everett 3 years - Bob Wright, Linda Parks
2 years - Claude Scott, Phyllis Parks Linda Parks, Chairperson

STANDING COMMITTEE CHAIRPEOPLE:

Calling.....Phyllis Parks	Membership.....Shirley Rockel
Education.....Roger Pabian	MWF Liaison.....Marie Taylor
Field Trips.....	Programs.....Roger Pabian
Historian.....John & Lillie Lewis	Scholarships.....Marie Taylor
Hospitality.....Ed Ridge	Xmas Party.....Janet Wright
Housing/Property.....Jim Parks	1988 Rockhound/Yr....Ed Ridge
Jr. Activities.....Janet Wright	1988 Annual Show.....Roger Pabian
Librarian.....Jim Parks	1989 Annual Show.....

AUDITING COMMITTEE 1986-1987.....Lois Hunt, Bruce Simon
Shirley Rockel, Chairperson
Phyllis Parks, Treasurer

PICK & SHOVEL STAFF:

Editors.....Board of Directors
Co-ordinator...Vera Lyman, 420 N. 56 St. Lincoln, NE 68504 (NAOESCI Reporter)
Circulation....Dave & Wilma Heffelbower
Rays of Sunshine....Wilma Heffelbower
Reporters....."CLUB MEMBERS"

DEADLINE: 1st of Month of Issue. Original articles may be reprinted if credit is given the author and THE PICK & SHOVEL and a copy of the publication is sent to the Editor.

C A L E N D A R

February							1988						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26	27
28	29												

MEETING: Saturday, February 27th, 7:30 P.M.
Nebraska Center, Norfolk Room
1988 UNL Scholarship Recipients Presentation.

JUNIORS: 7:00 P. M. - We'll call you with details.

MARCH BOARD: Home of Shirley Rockel, 1134 West Avon
7:30 P.M., Monday March 7, 1988

MARCH													
S	M	T	W	T	F	S	S	M	T	W	T	F	S
							6	(7)	8	9	10	11	12
							13	14	15	16	17	18	19
							20	21	22	23	24	25	26
							27	28	29	30	31		

MARCH 18, 1988-Show Set-Up. Members help needed and welcome.
Displays needed from each and every member.
BE THERE!!! Pershing Auditorium

MARCH MEETING: Saturday, March 26, 7:30 P.M.
Nebraska Center, Beatrice Room
PROGRAM: INCLUSIONS IN SAPPHIRE
SHOWS & SWAPS FOR YOUR NEW CALENDAR

- FEB. 27-28 SHOW Plainview, Texas
- MAR. 11-13 SHOW Kansas City, Mo., I-435 and Front St.
- MAR. 19-20 SHOW Lincoln Gem & Mineral Club, Pershing Auditorium
- APR. 9-10 SHOW Great Bend, Kansas
- APR. 22-24 SHOW Wichita, Kansas, Cessna Activity Center
- MAY 20-22 SWAP Ellinwood, Kansas
- SEP. 10-11 SWAP Fort Kearney Rock Club, Kearney, Nebraska
- OCT. 8-9 STATE SHOW Omaha, Nebraska-Nebraska Mineral & Gem Co. Host

Regional Show Schedule 1988 and 1989

1988 and 1989 dates and locations for Regional Shows and Conventions. The combined American/South Central Show and Convention for 1988 will be held in Shreveport, LA. In 1989 the American/Northwest Show and Convention will be in Portland, OR.

1988

CALIFORNIA	EASTERN	MIDWEST	NORTHWEST	ROCKY MOUNTAIN	SOUTH CENTRAL
Costa Mesa, CA Aug. 26-28	Warwick, RI Oct. 28-30	Macomb, IL July 14-17	Kennewick, WA Sept. 9-11	Bismark, ND June 17-19	Shreveport, LA Aug. 11-14

1989

Del Mar, CA May 12-14			Portland, OR June 8-11	Stillwater, OK July 14-16	Arlington, TX June
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NOTICE: Those of you who find a red check mark on your mailing label on this Pick & Shovel are reminded that this is your last bulletin as your 1988 Dues have not been received by the Treasurer. If you wish to remit the necessary dues plus \$1.00 per family for reinstatement we will put you back on the list. Phyllis

President's Message:

Hello again,

I'd first like to thank all those who helped with or participated in the rock swap last month. We had a very good crowd and even took in some applications for new members.

Our annual show is about a month away. We need people to help and to display. We would like as many people to participate as possible this year. It would be really nice if we could have everyone display this year, so if you can possibly contribute either time or a case, please do!

See you the 27th

Kevin J. Schwartman

P.S. Congratulations to Roger and Adeline for your respective service awards at the University of Nebraska!

LGMC JUNIORS

It was great to see so many families at the LGMC SWAP. Thanks to Speidell Monument for the great tour. Twelve youth and adults went on our indoor field trip. The young people had a great time trading specimens and bidding on the silent auction. A special thank you goes to Betty and Bill White from Kansas City for the specimens (fossils, minerals, and agates) donated to our Juniors. We appreciate how good our own club has always been to our young people. Jim Parks has cut specimens for the juniors to share on a consistant basis for the last three years. Thanks Jim your like our very own magic rock father.

WE DO NEED HELP !!!!

The Juniors would like to make mini rock kits to sell at the Gem & Mineral Show. We would like to have you save egg cartons and donate any inexpensive mineral specimens. They can be quite small. For example: limonite, gypsum, calcite, pyrite, quartz, feldspar, and coal; are all great for the kind of kits we would like to make up. We appreciate your help!!!

SAFETY TIPS.....

1. Do NOT ride in automobiles! They are the cause of 20% of all fatal accidents.
2. Do NOT stay at home. 17% of all accidents happen in the home.
3. Do NOT walk on the street. 14% of all accidents happen to pedestrians.
4. Do NOT travel by air, rail or water. 16% of all accidents are the result of one of these activities.
5. Only .001% of all fatal accidents happen in church! Obviously, the best and safest place to be is in your own church. Besides, IT'S GOOD FOR YOU!

from The Loup Scoop July 1987



Greetings from SUNSHINE CORNER

Life is like an onion.
 You peel it off one layer
 at a time
 And sometimes you weep.

Why were the Saints, Saints? Because they were cheerful
 when it was difficult to be cheerful,
Patient when it was difficult to be patient:
 and because they pushed on when they wanted to stand still,
 And kept silent when they wanted to talk,
 and were agreeable when they wanted to be disagreeable.
 That was all. It was quite simple and always will be.

--Anonymous

Fred Holbert is recovering from his surgery and Virginia Green is on the mend from back injuries. Jim Taylor is receiving more treatment and we do wish him well.

Remember your valentine this month!!!



"SPECIAL AWARDS"

The University of Nebraska presents service awards every year to employees. After five years of service an employee receives an award; this is repeated after the next 5-year period, etc.

On February 16 Roger K. Pabian will receive a tie-tack with three rubies on it for the 20-year award. Roger is employed as a professor and researcher in the Geological Survey, Conservation and Survey Division.

Adeline E. Nolde will be the only person to receive a 45-year award, three years prior to World War II as an artist in the Extension Division which is now called Continuing Education, and forty-two years as the departmental secretary in the Department of Engineering Mechanics which may be some kind of record since others may have been at the University that many years, but not forty-two years in one office. In the past tie-tacks and pins were awarded, with one exception being that a watch was given for the 25-year award. The ultimate was the tie-tack or pin with three diamonds given for the 40-year period. The pin with three diamonds is what Adeline received five years ago, and since that time other items have been introduced so that employees may make another choice if they did not want tie-tacks or pins. Adeline decided she will take another pin with three diamonds for the 45-year award, since "diamonds are a gal's best friend."

As a rule most persons start to work at the University at an older age and never receive the 40-year award, no designations were made for the 45-year award, because most people did not receive the 40-year awards. Also, in the past retirement was mandatory at either 65 years or 70 years, depending on the University status. Upon retirement the employees receive a tie-tack or pin with three emeralds on them.

LIVE ONE DAY AT A TIME AND MAKE IT A MASTERPIECE!

via S I E S Club News

SOME INTERESTING FACTS

With earthquakes in the news, we hear a lot of the Richter Scale to denote the strength of the quake. This scale was developed by the seismologist, Charles Richter, in 1935. Each number is ten times more powerful than the previous one. Thus a measurement of 5 would be ten times more than a 4, which is ten times more than a 3, so the 5 would be 10×10 , that is 100 times more powerful than a 3. Humans can feel shocks of 2. A quake of 5 can cause minor damage while over 8 means almost total destruction. The strength of the quake is measured in seismographs scattered around the country.

from Gem City Rock News curtesy Les Petery 1/88

1988 is LEAP YEAR, but DID YOU KNOW?

In February, 2000, there will be TWO extra days, the 29th and 30th. The month has 30 days every 1,000 years because the leap year day every 4 years doesn't quite match the Earth's rotation around the Sun.....

from "Serendipity Gems" and many other bulletins

"The most expensive paper in the world is found in supermarkets. Its called register tape and averages about \$11.75 per inch!

via Serendipity Gems

There may be winter on my head, but there is Spring in my heart!

Serendipity Gems

TOUCHSTONE

Touchstone, Lydian Stone, or Basanite are all names for a velvet black jasper. This stone was used as early as 450 B C by ancient jewelers and goldsmiths because of its hardness and uniformity of texture and color as a streak tablet for determining the relative amount of baser metal and pure gold in alloys. The sample is rubbed on the stone and the color is then compared with a series of standards of known composition.

The expert is able quite accurately to determine the fineness of the sample. The streak becomes redder as the percent of copper increases or yellower as the percent of gold increases.

Today's use--for backing opal doublets and triplets to make color more brilliant and stone more durable. It can also be used as is as it will take a high polish.

from Cedar Valley Gems and others

DID YOU KNOW THAT...the first Brazilian diamonds were used as counters for card playing, while the first South African diamonds were given to children as toys?

via Cedar Valley Gems

HINT - Jasper is more troublesome to polish than agate because many jaspers contain hematite, which is very difficult to polish. If you're on a field trip, a good way to test for good jasper is to wet it. If it stays wet, and does not dry out right away, it contains a high amount of chalcedony, and will take a good polish. Most jaspers polish well on leather with Linde A, but good results can be obtained with tin oxide on either felt or leather.

Via Arrowhead News & Tulip City Bulletin & Cedar Valley Gems 1/88

.....

*** You can do nothing with a friend - and enjoy it!

**** Man does not live by bread alone - he needs some buttering up too!

via Osage Hills Gems

LINCOLN GEM & MINERAL CLUB, INC. - BOARD OF DIRECTORS - Jan. 4, 1988

American Charter - 40th & South Sts. - Mon. Jan. 4, 1988, 7:30 P.M.

8 Board Members present; Tom Simmons absent.

Minutes of the Dec. Meeting were read and approved as corrected with motion by Fred Holbert, 2nd by Dave Heffelbower. Carried.

Treasurer's report was read with motion for approval by Shirley Rockel, 2nd by Gerald Moore. Carried.

BILLS: Pre-approved: (1987)

\$ 61.08 Roger Pabian - 2 Gem Books from Todd Ashmun Memorial

20.00 Darrol Larson - Christmas Party Program

(1988) Paid by members:

\$ 50.00 NAOESCI - Gem Palette Subscriptions

NEW BUSINESS:

Standing Committee appointments:

Roger Pabian - Program Committee - Education Committee

Marie Taylor - Liaison

P & S:

Editor - Board of Directors, with Vera Lyman as co-ordinator

SCHOLARSHIP REPORT: Marie Taylor

Club donated to Academy \$ 750.00 - 1980; \$ 250.00 - 1981; \$ 250.00 - 1984

Dr. Trevis gave 7 names for Club Scholarship selection. After discussion, Roger recommended Kirk Morrow & Mike Moran. Motion by Vera Lyman that we accept Roger's suggestions; 2nd by Gerald Moore. Carried.

Fred Holbert made motion to award scholarship at Feb. Meeting (Feb. 27). 2nd by Dave Heffelbower. Carried.

SHOW REPORT: Roger Pabian

10 dealers have paid deposit or total fee. Have scale plan of floor. Demonstrators being contacted. Fred Holbert checking on prices of Sapphire concentrate. Show Committee meeting soon - tentatively Wed. Jan. 13.

Checking on meal for Show - Caterer - Prefer pantry.

Several outstanding programs announced for Show.

MAY MEETING:

Motion by Kevin Schwartman that May Meeting be held on May 21 in one of the Parks. 2nd by Fred Holbert.

Phyllis Parks announced that Security Storage Gate open only form (9AM to 8 PM. No keys outstanding on Gate. Special arrangements to be made at Show time.

Do not wish to join Lincoln Arts Council at this time.

Respectfully submitted,

Vera Lyman
Vera Lyman, Secretary

THOUGHT FOR THE NEW YEAR

I locked the door on yesterday

And threw the key away;

Tomorrow has no fears for me

Since I have found today!

from The Glacial Drifter via S.C.R.I.B.E.

LINCOLN GEM & MINERAL CLUB, INC. - GENERAL MEETING - Jan. 30, 1988

The 10th ANNUAL MIDWINTER SWAP was held from Noon to 6:00 P.M. and proved to be another success. Mother Nature was again very helpful.

NE Center - Scottsbluff/Minden Rooms - Jan. 30, 1988 7:30 P.M.

Minutes of the Nov. '87 General Meeting were approved as printed with motion by Tom Simmons, 2nd by Helena Baegl. Carried.

Treasurer's report approved as printed with motion by Adeline Nolde, 2nd by Claude Scott. Carried.

Hospitality Chairman, Ed Ridge reported 32 members and 2 Juniors in attendance, with 9 guests.

Phyllis Parks announced that "Dues are Due" and if not paid by Feb. 1, you must pay the extra dollar.

COMMITTEE REPORTS: Show - Roger Pabian

Show theme - "Touch of Class"

Reported that 13 dealers are signed, with contract out to 14th. Fred & Roger also went to Pershing Aud. to check on floor for layout, electric, etc.

Banquet meal will be held Sat. eve. after Show; catered by Prospector (3 meat banquet) Cost \$ 7.50-\$ 8.00.

Requested displays from novice to advanced.

Mike Smith - Sign-up sheet for Shop equipment.

Tom Simmons - Requested materials for visually impaired display.

Janet Wright - Requested small mineral specimens and "egg cartons" for Junior mineral kits.

LIBRARY: Two more Gem books have been added to the Library from the Todd Ashmun Mem. Also, Roger Pabian donated a copy of the "Geology of Franklin County, NE".

AUDIT REPORT: Shirley Rockel

Committee reported that the audit of the books for 1986 and 87 were found to be in order. Copies of report will be in members copies of Feb. Pick & Shovel.

Excellent program on "Lake Superior Agates" was presented by Roger Pabian.

The evening closed with everyone enjoying a piece of the Club's 33rd Anniversary Cake.

Respectfully submitted,

Vera Lyman
Vera Lyman, Secretary

LGMC Treasurer's Report for January 1988		NBC Checking 12/31/87	\$452.02
Receipts:	1988 Member Dues	158.00	
	New Member Applications	34.00	
	Suspense for Member Subs GP	10.00	
	Sale of pins & patches	6.75	
	Donation to LGMC Ed/Schol.Fund	3.75	
	'88 Show Dealer Deposit	100.00	
	Silent Auctions at Swap	30.70	
	Swapper Bucks Surcharge	16.48	
			359.68
Payments:	'87 Bills-Show Sales Tax	15.09	
	Dec.Pick & Shovel	62.40	
	'88-Midwest Federation Dues	86.00	
	NAOESCI Dues	29.40	
	Page Trophy Plaque	27.06	
	Library Books	61.02	
	Jan. Pick & Shovel	46.89	
	Jan. Swap Exp. & Postage	15.62	
	Jan. Anniversary Cake	25.00	
	'88 Show Expense	10.31	
	Forward Gem Palette subs.	50.00	
			428.79
	National Bank Commerce Checking 1/31/88		382.91

LINCOLN GEM & MINERAL CLUB, INC.

Balance Sheet December 31, 1987

ASSETS:

Cash on Hand	20.00	
Nat'l. Bank of Commerce Checking	452.02	
Nat'l. Bank of Commerce Money Market Account	230.34	
Nat'l. Bank of Commerce Certificate Deposit	15000.00	
First Federal Money Market Account	95.89	
First Federal Certificate of Deposit	5000.00	
Account Receivable	45.00	
Deposit for 1988 UNL Scholarship	300.00	
* Balance from underwriting Lake Mac.Dredge	9.33	
1988 Expenses paid in advance-		
3 months storage rent	90.00	
'88 Show prepayments	772.69	862.69
* Club emblems, pins & patches remaining unsold	34.25	
Equipment and Depreciation 1820.92 - 1756.98	63.94	
Show Cases and Depreciation (16 Glass Cases)	1210.38 - 1210.38	.00
Total Assets		22113.46

LIABILITIES:

Advance '88 Member Dues	166.00	
1988 Show Dealer Space paid in advance	1375.00	
LGMC Scholarship/Education Fund Balance	36.47	
Nebraska Academy Fund Balance	16.80	
* Junior Activities-Donation Balance	8.66	
Suspense - Member prepayment of Gem Palette Subs	44.00	
Suspense - 1987 Show Sales Tax Payable	15.09	
Suspense - Dec. 1987 Pick & Shovel Printing	62.40	
Net Worth	21934.62	
Less 1987 Loss	1545.58	20389.04
Total Liabilities		22113.46
* Separate Reports		

Lake Mac Dredging Project -	
Amount Underwritten by LGMC	138.68
Silent Auctions designated for project:	
January Swap	66.60
May Meeting	62.75
129.35	
Balance outstanding 12/31/87	9.33

Junior Activities	
Balance 1/1/87	100.91
Jan. Swap Income	9.75
Future Rockhounds	
Pins & Patches	86.00
Christmas Party	16.00
102.00	
Balance 12/31/87	8.66

Club Emblems Inventory	
Silver Anniv. Pins, Patches	
Pins - 24 @ 1.25	30.00
Patches 3 @ 1.50	4.50
34.50	

Audit Certified by
Shirley Mair-Rockel
C. Oliver Haffel Powner

LINCOLN GEM & MINERAL CLUB, INC.

'87 Operating Statement December 31, 1987

INCOME:

1987 Membership Dues & Registrations	402.00	
* Interest on Savings	1322.09	
Miscellaneous Income -		
From Swapper Bucks in January	6.38	
Donation from Ashmun's	100.00	106.38
Total Income		1830.47

EXPENSES:

* Dues to Organizations	129.35	
1987 UNL Scholarships (2) @ 150.00 ea.	300.00	
Memorials & Curtesy	20.00	
Donation to NAOESCI Gem Palette Equipment	150.00	
* Social Hour	344.42	
Rent Meeting Hall & Picnic Meetings	260.00	
Rent Storage Unit	354.00	
1987 NAOESCI Gem Palette Subscriptions	104.00	
Postmaster-Box Rent and Bulk Mail Permit	79.00	
* The Pick & Shovel	686.92	
* 1987 Annual Show Loss	562.23	
* Miscellaneous Expenses	386.13	
Total Expenses		3376.05
* Separate Reports		
Net Operating Loss 1987		1545.58

Interest on Savings & Money Market Accounts	
FNB-Final 6 months on C.D.	414.63
NBC-Money Market account	42.61
NBC-First 6 months on C.D.	480.00
First Federal Money Mkt.	8.08
First Federal Cert. Deposit	376.77
1322.09	

Dues to Organizations	
MWF	47.50
NAOESCI	31.85
Friends Museum	50.00
129.35	

Social Hour	
32nd Anniv. Cake	25.00
Refreshment meetings	117.56
Show Set-up	43.69
Christmas Dinner	158.17

Pick & Shovel	
Income- 1 Subscription	5.00
2 Advertisers	90.00
95.00	
Expenses-	
Printing 9 issues	525.17
Postage 200 per mo	187.50
Supplies	27.93
Repair Stapler	29.45
Who's Who	11.87
781.92	
Total Cost	686.92

Miscellaneous Expenses -	
Pres. & Rockhound Year Plaques	85.07
January Swap	27.08
Officer Performance Bond	100.00
Non-Profit Corp. Fee	20.00
Club Activities Pictures	8.60
Membership Committee Exp.	5.50
Library Books	61.08
Program Expense	28.00
Misc. Postage, copies, Treas. Exp.	50.80
386.13	

LINCOLN GEM & MINERAL CLUB, INC.
Balance Sheet December 31, 1986

ASSETS:	
Cash on Hand	20.00
Nat'l. Bank of Commerce Checking	237.41
Nat'l. Bank of Commerce-Money Market Acct.	1987.45
Nat'l. Bank of Commerce-3 month Cert. Deposit	1500.00
FirstTier Bank Certificate of Deposit	15000.00
First Federal Transmatic Account	111.04
First Fed. Cert. Deposit (for annual scholarship)	5000.00
Account Receivable (86 adv. P & S)	45.00
Deposit for 1987 UNL Scholarship	300.00
Final amount underwritten on Lake Mac. Dredge	138.68
*1987 expenses paid in advance	171.28
Equipment and Depreciation 1820.92 - 1756.98	63.94
Show Cases and Depreciation (16 Glass) 1210.38 - 1210.38	00.00
Total Assets	24574.80
LIABILITIES:	
Advance '87 Member Dues	201.00
P & S Subscription paid in advance	5.00
1987 Show Dealer space paid in advance	2285.00
LGMC Scholarship/Education Fund Balance	31.47
Nebr. Academy Fund Balance	16.80
* Junior Activities-Donation Balance	100.91
Net Worth	23,399.44
1986 Loss	1,464.82
Total Liabilities	24574.80

*Audit Certified by
Shirley Mae Rockett
C. Fred N. Powell*

LINCOLN GEM & MINERAL CLUB, INC.

'86 Operating Statement December 31, 1986

INCOME:

1986 Membership Dues & Registrations	447.00	
* Interest on Savings	1681.32	
* Miscellaneous Income	76.36	
Total Income		2204.68

EXPENSES:

* Dues to Organizations	209.45	
1986 Uni. Nebr. Scholarships	300.00	
* Memorials & Courtesy	135.20	
* Social Hour	316.49	
Rent Meeting Hall & Picnic Meetings	415.00	
Rent Storage Unit	396.00	
Midwest Federation Delegate	150.00	
NAOBSCI 'Gem Palette' Subscriptions	128.00	
Postmaster-Box Rent and Bulk Mail Permit	79.00	
* The Pick & Shovel	825.59	
* 1986 Annual Show Loss	348.68	
* Miscellaneous Expenses	366.09	
Total Expenses		3669.50
Net Operating Loss 1986		1464.82

* Separate Reports

Interest on Savings- FirstTier Bank	1120.27
Natl. Bank Comm.	137.45
First Federal	423.60
	<u>1681.32</u>

Misc. Income-	
Jan. Swapper Bucks	15.29
Aug. Silent Auction	40.30
Prior year Postal Rfd.	20.72
Overage in deposit	.05
	<u>76.36</u>

Social Hour-	
Monthly meetings	101.65
Christmas	142.14
'86 Show Set up	47.70
Jan. Anniv. Cake	25.00
	<u>316.49</u>

Memorials & Courtesy-	
Wittmann Memorial	10.00
Anniv. Youngs & Johnsons	20.00
Cards & Mailing	5.20
Donation Lake Mac Dredge	100.00
	<u>135.20</u>

Dues to Organizations-	
Midwest Federation	50.50
NAOBSCI	33.95
Lincoln Arts Council	25.00
Friends Museum	100.00
	<u>209.45</u>

FOR BALANCE SHEET

'87 Expenses paid-	
'87 Jan. Swap	13.44
'87 Show	157.84
	<u>171.28</u>

Junior Activities-	Pal. 12/31/85	65.4
Paid-Pooks	24.50	
Dinners	25.00	49.50
Income-		
Jan. Swap	9.75	
'86 Show	75.21	84.96
Increase		35.4
Balance 12/31/86		<u>100.9</u>

The Pick & Shovel-	
Printing U.F.L. Prtg./Dupl.	581.32
Pre-cancelled Stamps to mail	250.00
Summer Issue	39.24
Who's Who	12.13
Misc. copy & supplies	37.90
	<u>920.59</u>
Less income adv. & sub.	95.00
Net	825.59

Miscellaneous Expense-	
Resident Agent Filing	8.00
Officers Performance Bond	82.00
Fres. & Rockhound Plaques	85.21
Pictures Show & Meetings	18.41
All Am. Award Filing	5.94
Programs	40.50
Library	18.65
Jan. Swap	5.35
Postage & Mailing	40.70
Misc. Copy & Expenses	61.33
	<u>366.09</u>

LINCOLN GEM & MINERAL CLUB, INC.
1986 Annual Show Report - Final

INCOME:			
Dealer Space - Retail	2300.00		
- rfd.	<u>100.00</u>	2200.00	
Demonstrators		50.00	
Raffle		145.00	
Gate		<u>1727.00</u>	
	Total Income		4122.50
EXPENSES:			
Floor - Fairgrounds	1581.00		
Table/Chairs	820.55		
Insurance	225.00		
Security	230.00		
Sound	35.00		
Table cover	<u>63.21</u>	2954.76	
Dealer Expense		50.05	
Publicity		902.89	
Recognitions & Ribbons		143.76	
Hand out programs		62.05	
Program Speakers		125.00	
Sat. Night Dinner		174.00	
Sales tax on gate receipts		<u>58.67</u>	
	Total Expenses		<u>4471.18</u>
	Net loss on show		<348.68>

LINCOLN GEM & MINERAL CLUB, INC.
1987 Annual Show Report - Final

INCOME:			
Retail Dealer Space		2700.00	
Demonstrators		70.00	
Advertising on Fliers		40.00	
Silent Auction		51.00	
Raffle		132.00	
Hook-ups		49.00	
Int.on CD purch.Dlr.Fees		20.28	
Resell 1 light bulb		2.50	
Gate Receipts 2 days		<u>389.00</u>	
	Total Income		3453.78
EXPENSES:			
Floor - Fairgrounds	1299.00		
Tables/Chairs	962.19		
Table Cover	66.83		
Insurance	225.00		
Security	<u>250.00</u>	2803.02	
Sound System		35.00	
Signs-Gate, directional, etc.		148.99	
Publicity		488.52	
Dealer Chairman Expense		40.62	
Speakers & Programs		133.19	
Breakfast		126.50	
Raffle		78.55	
Recognitions		67.38	
Hand-out Programs		63.83	
Misc. Exp. including sales tax		<u>30.41</u>	
	Total Expenses		<u>4016.01</u>
	Net loss on show		<562.23>

YOSEMITE NATIONAL PARK

How does one even begin to describe the magnificent grandeur of Yosemite? For me there was a foretaste of its unusual beauty in the flight to San Jose, California, to join my son, Hershall, and my daughter-in-law, Nancy Boring, for the trip. Gilbert had decided against travel at this time (July) because of the heat and humidity. It would be my first trip to Yosemite. Gilbert had conducted several field trips for Midland College students there in earlier years.

The plane descended at Denver through ragged clouds interspersed with almost unearthly yellow-green light, pouring out onto the ground in patches. Then the plane took off again into a glorious sunset that preceded us almost to San Jose. At first the mountain peaks to the west of Denver were silhouetted black against bands of orange, salmon, peach, with delphinium to cobalt blues above. After we were so high that all the peaks were below us, the beautiful colors still persisted for hundreds of miles. Finally, the colors assumed more reddish hues, dying away as we landed.

Next morning we packed the motor home and set out, with Nancy's mother and the three dogs (small ones, fortunately), for the Indian Flat Campgrounds about six miles west of El Portal. We were to hook up here each night and drive the RV into one of the spacious parking lots in the park each day. The six-hour trip from San Jose to Indian Flat was enlivened by a most amazing sight: miles of wind generators east of Livermore at Altamont Pass, incredible fields of generators closely set in rows. There were several different kinds, mostly three-bladed, but also many of a single egg-beater type, most of them whirling merrily in the wind. National Geographic had carried a most interesting article a few years ago, but to come unexpectedly upon so many windmills was astonishing.

The scenic drive up the Yosemite Valley along the Merced River soon brought us within sight of El Capitan, the world's largest granite monolith. Rising 3,600 feet above the valley floor a fourth of a mile away, this largest unbroken cliff in the world, more than twice the size of Gibraltar, does not reveal the full impact of its size because of the large number of huge domes and cliffs so closely clustered along the valley.

There are seven kinds of granite in Yosemite Valley, each named for the most spectacular rock formation it composes. The El Capitan granite, which also forms Cathedral Rock across the valley, only a half mile wide here, is the oldest, finest grained, and strongest of the Yosemite Valley granites. Only granite forms domes, but not all granite can do so. Domes are rare throughout the world. Only two of the seven kinds of Yosemite granite form the domes for which this park is famous. Half Dome is the one that most captures the imagination. Where did the other half go?

Mostly down the Merced River to the San Joaquin River. Glaciers and streams did the work. At least three glaciers have deepened and widened the Yosemite Valley. Two hundred million years ago the Merced River flowed through rolling hills and shallow tributary valleys. But the shifting plates of rock from the sea floor were being pushed toward the continent to sink, melt, and uplift the Sierra Nevada Mountains, while the Merced River cut a deep, rugged, V-shaped gorge. The granite in the eastern part formed about 200 million years ago; the El Capitan granite at the western edge, about 140 million years ago; and the granites nearer the center of

the park, about 85 million years ago. The glaciation took place after the last granite formation, each glacier flowing down the valley as glaciers do. Half Dome was simply a huge granite formation with many vertical cracks in the "half" nearer the river. The flowing rivers of ice carved away this weaker half.

It is really the waterfalls of Yosemite for which the park is most famous. Bridalveil Fall is the first to capture ones admiration. Dropping 620 feet from its hanging valley, it is Yosemite's only tributary waterfall that never goes dry. The water flows so fast that it arches free of the cliff face, and on windy days, such as one day we were there, the updrafts actually blow the water back over the edge of the cliff until gravity takes over once more. This was the driest year since 1977, with less than 35 percent of normal snowfall the past winter; so, when we saw it, Bridalveil was a dainty, delicate fall, adorned with shimmering rainbows.

The crowning glory of Yosemite National Park is Yosemite Falls. There are three stages of Yosemite Falls: Upper Fall, 1,430 feet; Lower Fall, 320 feet; Middle Falls, 815 feet in three cascades--a total of 2,567 feet. In the spring of the year the rapid snow melt and thin drainage soils give Yosemite Falls "a magnificence unequaled by any other fall on the continent." The Yosemite Falls are usually dry by early autumn. This year they were forecast to be dry by the end of July; but they were still healthy when we were there and the walk to the Lower Fall was rewarding.

From the Overlook on Glacier Point, 3,206 feet above the valley floor, we were able to see two other great falls, both on the Merced River itself: Nevada Fall, the mightiest cataract in the Sierra (594 feet) and Vernal Fall (317 feet). These waterfalls pour over giant glacial steps which are the lower part of the Giant Stairway, a series of glacial stairsteps running for 21 miles up the Merced River Basin to the crest of the Sierra.

Naturally the presence of so many magnificent rock formations is a magnet for mountain climbers. El Capitan, since it is the world's largest unbroken cliff, is such a challenge that it requires three to six days to climb it. The fastest ascent on record is 9½ hours; the slowest, 33 days. Its popularity is so great that there are 600 to 700 climbing parties, usually parties of three, on El Capitan each year. Climbing in the park is not monitored, but there is a Yosemite Mountaineering School in the park. There are 20 to 30 deaths per year in Yosemite, but very few of them are from climbing. Most deaths on El Capitan are from dehydration or exposure. The granite on a hot day can reach a temperature of 120 degrees F. A very minimum of 12 gallons of drinking water per day is needed for a party of three.

The first white men to enter Yosemite Valley were members of the Mariposa Battalion, who, in 1851, set out to punish or capture the Indians who were harassing the miners and settlers along the lower Merced. In 1955 tourism was counted as "42 hardy souls who entered by horse and mules." Now camping and backpacking are so popular in Yosemite that almost every imaginable kind of accommodation is offered, as unobtrusively as possible. The huge numbers of people using the park each year seem not to be well advertised, perhaps because potential tourists might fear that the parks would be overcrowded. However, the area of the park is vast (1,189 square miles) and convenient transportation is readily available. The majority of visitors spend most of their time in the nearly 7-mile-long Yosemite

Valley, where free shuttle buses operate continuously. Guided bus tours for a reasonable fee enable visitors to see and learn about the most interesting and important features of the park without the congestion of private automobiles.

With so many visitors the problem really is protecting the park from the people rather than protecting the people from the park. In the seven square miles of the main valley itself there are 30 species of trees and many more species of other plants and animals. The incense cedar is the most common tree, followed by ponderosa pine and black oak. Black oak used to be the most common. Its acorns provided 70 percent of the food of the Ahwahnee Indians and were used to trade for obsidian from the Mono Indians and others. In the Indian Village setup behind the Visitor Center one can watch the native people grinding and cooking acorn flour as part of their traditional living.

Of course the giant sequoia are the most famed trees of Yosemite. They are the largest trees in the world, though not the tallest, nor the broadest. The coast redwood reaches heights of over 350 feet, nearly 50 feet taller than most giant sequoias. The tule cypress grows thicker around. But for sheer bulk--the combination of great height and great girth--the giant sequoia is largest. Three groves of giant sequoia are located in Yosemite National Park. Few other groves exist besides those in Sequoia and Kings Canyon National Parks. Giant sequoias are living now that have lived for about three thousand years, but the conditions necessary for their environment are so special that conservation measures are vital.

Yet man, too, must survive. The northern main valley of Yosemite National Park, the valley of the Tuolumne River, was sacrificed in 1913 when construction began on the dam which was to form the Hetch Hetchy Reservoir to impound San Francisco's water supply. Before the dam was built, the Hetch Hetchy Valley rivaled the spectacular beauty of the Yosemite Valley, but now it lies under 300 feet of water. Naturalist John Muir, who did more than anyone else to bring Yosemite to national attention and to its designation in 1890 as our nation's third national park, is said to have died of a broken heart because he could not save the magnificent Grand Canyon of the Tuolumne River.

Wanting to see something of the Mother Lode country as we left Yosemite, we drove the Mariposa--Coulterville--Chinese Camp route over some of the steepest climbs and descents and most difficult turns I've seen since the Going to the Sun Highway in Glacier National Park. Near the area of Chinese Camp we found ourselves driving along the base of a puzzling high, flat-topped, sinuously curved ridge. It was an ancient lava flow which had poured for miles down the floor of an ancient valley, forerunner of the modern Stanislaus River valley. The weaker deposits composing the landscape on either side of the flow had eroded, leaving the valley floor standing as a long, gracefully curved, flat-topped ridge. The complex geologic history of the Yosemite area has made it what it is today and will reshape it in the future.

--Florence (Boring) Lueninghoener

SAPPHIRES

The use of sapphire as a gemstone goes back into ancient times, it having been mentioned by ancient writers and in religious texts such as the Holy Bible. Whether or not the ancient writers always referred to sapphire as we now know it is a moot question. Many of the stones called sapphire by the ancients may have been spinel.

That there will be a sapphire dig at our annual show this year spurs a bit of discussion about this gem. The sapphire dig will allow participants to purchase a small quantity of sapphire bearing gravel and try to find the elusive gems therein. We wish you luck.

Sapphire is one of the two gem varieties of the mineral corundum. It is composed of aluminum oxide and has the formula Al_2O_3 . Corundum crystallizes in the hexagonal system---it is uniaxial negative. Sapphire is any color except red or purplish red, those terms being reserved for rubies. If a corundum is pink, it is sapphire, not ruby---this is established by the Federal Trade Commission. Corundum is hard (9 on the Mohs scale), dense (Specific gravity = 4.00), and tough.

Because of its density, corundum will usually be situated nearer the upstream end of gravel bars. Specific gravity cones are often used to help extract it from stream gravels. A cone about one meter high is partially filled with gravel and water. It is swirled about and the denser corundum settles to the bottom and the lighter material is poured off. Such mining methods are still practiced in such areas as Sri Lanka and Burma. Corundum is also found in place in quartz-free igneous and metamorphic rocks in India and Afghanistan to mention just a couple of places.

Much corundum is transparent and is shaped into faceted stones rather than cabochons. Translucent and opaque varieties are often asteriated and these are cut into star stones. Both facetable and asteriated corundum has been synthesized in the laboratory and much of this material is used in the gem trade. The biggest identification problems in corundum are concerned with separating natural from synthetic stones. This can usually be done on the basis of the growth lines seen in the crystals and by the nature of the inclusions in the stones.

The program will be devoted to inclusions in corundum. Also, I will bring along a polariscope, dichroscope, and refractometer. If you have corundum you wish to know is synthetic or natural, bring it along and we will try to identify it.

Display cases will be available for whatever you wish to show.

Roger K. Pabian

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Subscriptions to THE PICK & SHOVEL are \$3.00 per year mailed.

Dues to LINCOLN GEM & MINERAL CLUB are as follows:

Adult membership fee \$5.00 (age 16 and over)

Junior membership fee \$1.00 (age 12-16)

Family membership fee \$11.00 (husband, wife and all children under 16 - permanent residents of household)

New membership must be approved by the Board, after applicant attends at least one (1) regular meeting of the club, and pay the above dues plus \$1.00 registration fee.

DON'T FORGET: The February 27th General Meeting is "special".
Our Annual Club Scholarships will be awarded to two
students.

IF----You haven't paid your 1988 dues, please do so soon, and
remember to include the extra dollar for re-instatement.

PLAN your display for our Annual Show! It's only about a month
away!



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