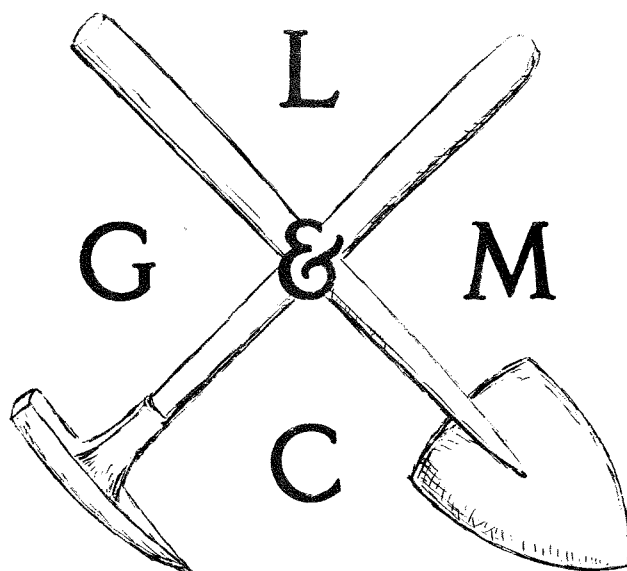


# THE PICK & SHOVEL



OFFICIAL PUBLICATION OF

LINCOLN GEM & MINERAL CLUB

LINCOLN, NEBRASKA

LINCOLN GEM AND MINERAL CLUB, INC.  
P. O. Box 5342, Lincoln, NE. 68505

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: Midwest Federation of Mineralogical and Geological Societies (MWF)  
American Federation of Mineralogical Societies (AFMS)  
Nebraska Association of Earth Science Clubs, Inc. (NAOESCI)  
Nebraska Academy of Sciences  
Community Arts Council of Lincoln

Regular Meetings: 4th Saturday of the month, September thru May, 7:30 P.M.  
1980 - Trabert Hall, Lower Level, 2202 South 11th Street

1980 ELECTED OFFICERS

President.....	Roger Pabian	315 "D" St	Lincoln, 68502	474-2034
1st Vice Pres...	Larry Bigley	6126 Hartley	Lincoln, 68507	466-0211
2nd Vice Pres...	Edwin Johnson	1800 Pawnee	Lincoln, 68502	423-9075
Recording Secy..	Vera Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
Treasurer.....	Phyllis Parks	2435 S. 19th	Lincoln, 68502	476-6798
Board Member....	Marita Bigley	6126 Hartley	Lincoln, 68507	466-0211
Board Member....	Virginia Green	6120 The Knolls	Lincoln, 68512	423-5032
Board Member....	Frank Rule	6333 Kearney	Lincoln, 68507	466-1697
Board Member....	Farel Hyland	6934 Francis	Lincoln, 68505	466-3387

Nominating Committee--3 years..Bob Walker, Irl Everett; 2 years..Wilfrid Wittman,  
Edwin Johnson; 1 year..Marita Bigley, Lynn Wells

STANDING COMMITTEE CHAIRPEOPLE:

Programs	Howard J. Taylor, Jr.	Liaison and Calling	Marie Taylor
Education	Marilyn Smits	Refreshments	Flossie Litzenberg
Hospitality	Goldie Quinn		
Historian	Lois Everett		
Librarian	Kay Graber	Scholarship	Howard Taylor
Membership	Mary Lambert	Outside Displays	Bruce Simon
Field Trips & Safety	Walt McCoy	Housing and Property	Dick Roberts
Sunshine Corner	Susan Taylor	Publications	Glen Litzenberg
NAOESCI Reporter	Evelyn Ulrich	Auditing Comm. 1980	TBA
1981 Show	TBA		

LONG RANGE PLANNING AND BY LAWS COMMITTEE

1 year remaining Nelda Oliver, John Harrison; 2 years remaining, Jim Parks,  
Phyllis Parks; 3 years remaining, Howard Taylor, Marie Taylor

1980 National Show Planning Committee - Selected, 1977 General Meeting -  
Howard Taylor, John Harrison, James Marburger, Tom Simmons, Roger Pabian and  
Frank Rule. Committee selected Howard Taylor as Chairman and added Ray Lambert  
as Secretary.

PICK & SHOVEL STAFF: Chairman...Glen Litzenberg  
Editor Evelyn Ulrich, 3521 S. 48th St., Lincoln NE 68506 (488-9051)  
Club News Helena Baegl Artwork  
Sunshine Susan Taylor Publisher  
Typists Flossie Litzenberg, Marita Bigley, Linda Parks

DEADLINE 1st of Month of Issue. Articles may be reprinted by credit and bulletin copy.

Calendar

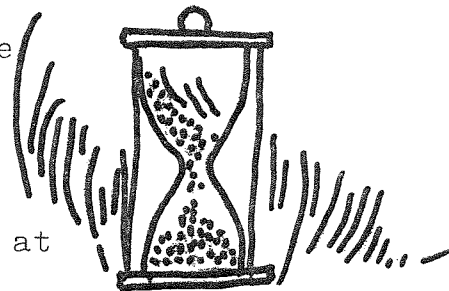
General Meeting...January 26, 1980, 7:30 P.M. Trabert Hall.  
 2202 So. 11th St. East entrance.

Program.....Vertebrate Fossils of North-east Nebraska.  
 Presented by George Van Dam. Mr. Van Dam is also a magician. Come and learn more about Nebraska fossils and be fascinated by Performances of magic as well.

ROCK SWAP.....January 26, 1980, from noon until regular meeting at 7:30 P.M.

L.G.M.C. Board of Directors'Meeting...Will be held at the Commercial Federal and Loan Association, 5555 "O" Street at 8:00 P.M. Feb. 7.

Welcome New Member... Vernon Jakub, Box 68, Route 2, Ceresco, Ne. 68017, Toll 665-2149.



Final Notice.....Dues are due January 1st - delinquent January 31st. Reinstatement will be necessary if dues are not paid at specified time. Reinstatement includes a fee of \$1.00 and acceptance of membership by Board of Directors. More information concerning dues elsewhere in bulletin.

1980 DATES TO REMEMBER

March	7-9	Kansas City, Mo.	Greater Kansas City Gem & Min. Show, Kansas City Trade Mart, 250 Richards Road.
April	12-13	Cedar Rapids, Ia.	Cedar Valley Rock & Min. Soc. Show, Hawkeye Downs, 6th St. S.W.Hwys. 218 and 30.
April	19-20	Sioux Falls, S.D.	Sioux Empire Gem & Min. Soc. Show, Lower level Masonic Temple, 1st. Ave. and 14th Street.
April	25-27	Wichita, Ks.	Wichita Gem & Min. Soc. Show. Cessna Activity Center 2774 George Washington Blvd.
May	17-18	Hot Springs, S.D.	Picture City Gem & Min. Soc. Show, City auditorium.
June	6-8	Topeka, Ks.	Rocky Mt. Fed. Convention & Show. Hosted by Topeka Gem & Min. Soc. Exposition Center, Shawnee County Fairgrounds.
June	12-15	Lincoln, Ne.	A.F.M.S. M.W.F..Show. Hosted by Lincoln Gem & Min. Club. Bob Devaney Sports Center, Ne. State Fairgrounds.
Sept.	27-28	Ogallala, Ne.	N.A.O.E.S.C.I. State Show. Hosted by Prairie Rock Hounds, Elks Club Bldg.

From Everett's Lapidary Shop..... Plan to visit our shop when we get back..  
 Admission to Rock Swap - one rock for silent auction. Free coffee.

Last Month...41 members and 3 guests were at the L.G.M.C. Christmas dinner December 8, 1979. The guests were: Emma Baegl, Mrs. Ervin Marshall and Mrs. Gus Fanderich. The dinner was a buffet in the Gold room at The Colonial Inn. Invocation was given by Irl Everett.

After dinner the 1980 Officers were installed. Howard Taylor presented the gavel to Roger Pabian. Jim Marburger presented Howard Taylor with a plaque for his retirement with a gavel on it. Then each member introduced themselves. The two Charter members there: Irl Everett and Frances Tracy were applauded.

Flossie Litzenberg invited members to sign up for the L.G.M.C. 25th Anniversary party to be held January 15, 1980 at the Assembly of God Church on 56th and "R" streets. Many made reservations.

Jim Taylor showed many slides of the family trip to Salt Lake City and Maroon Bells State Park and Florissant Fossil beds in Colorado.

Many members paid their 1980 membership dues after the meeting.

The ceramic table decorations brought by Susan and Marie Taylor added much to the Christmas spirit and were enjoyed by all.

Hazel Greenwade won the Mohave stone necklace that was given to us by the McNamars.

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10 Years Ago ... January 1970 - L.G.M.C. Founders' Day Celebration. Our Club's beginning, growth and achievements by Marie Carveth, C.Ray Waddle and Irl Everett. (How many remember that night? Ole Irl broke down and cried in front of the whole crowd there,) Phyllis Parks, President, Frank Rule, 1st Vice President, C.R.Waddle 2nd Vice President.

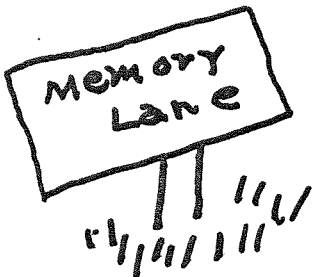
20 Years Ago ... January 1960 - V.A.Carveth was president of L.G.M.C. L.G.M.C.displayed their crafts at the Hobby Show held at the Lincoln Air Force Base Hobby Center. Tom Simmons showed his slides on the effects of the 1959 earthquake at Yellowstone National Park.

25 Years Ago ... January 1955 - L.G.M.C. was formed and started on the first 25 years of service and a time of fellowship to ones who were interested in the hobby.

Our Club has grown from a few in the first years to the Club we have now.

There are many things that have been accomplished in the last 25 years. Just to name two is the fact that L.G.M.C. has hosted one National Show, and now in 1980 we will host another!

From the Club History Files of Irl Everett



## PRESIDENT'S MESSAGE

Perhaps you have already noticed a "new look" for the Pick and Shovel. It is part of a month-long experiment approved by the Board of Directors. We are doing this for several reasons, the first of which is that we do not have our own printer in the club at this time. Secondly, we may be able to publish the bulletin outside at a lower real cost to the membership. I hope that the readers like the new look. Publication of the bulletin will be a matter of business at the next meeting. We hope to have everybody's input. I think that the new way of publishing may be able to save a lot of labor and a lot of expense, both th the club and to the members who have labored on this project for many years.

The January meeting will be an all day swap. The doors of Trabert Hall will open at noon, January 26, and swapping will continue until about 7:00PM, allowing enough time to set up the room for the general meeting. In addition to the swap and meeting, we will be honored to have Mr. George Van Dam of the Geology Department present a slide program on some vertebrate fossil sites in northeastern Nebraska. There will be many slides of the various beasts that once populated Nebraska. George is also a highly polished sleight of hand artist and he has consented to perform some of his feats during the **swap**. I first met George in the role of a magician rather than a geologist, and I can assure you that both shows will be well worth attending. Also, bring the whole family.

At this time, the club still needs a refreshment chairperson. If anyone would like to serve in this capacity, please see me.

Most of the committee spots are now filled. I have endeavored to select committee members who are not elected members of the board of directors. Beginning in February, the education committee, headed by Marilyn Smits, will select a rock of the month. This rock will be featured in the Pick & Shovel. We will have several Wichita Cases available to display specimens at each meeting. Preferably, members will bring examples of the so designated rock, but cases may be used to display anything rock related.

Walt McCoy will head up the field trip committee. We are planning four short trips of one day duration in the nearby area, and a long trip of several days to the Crawford area. The former trips will be two on Saturdays and two on Sundays so all members will have an opportunity to participate in at least two trips. The latter trip will hopefully take place during the time of the Crawford show. We will plan on publishing some short guide books for each trip.

The club library will be returned to the meeting site as of the January meeting. We hope that the membership will start using this facility. Kay Graber will be the librarian and her duties will include obtaining some new volumes for our consumption. We hope that the membership will fully utilize this facility.

In addition to the regular meetings, and field trips we will be planning several workshops covering various phases of the lapidary, jewelry making, and rodk hobby in general. We hope to bring in some good speakers and demonstrators who will give us a chance to try our hand at some of the more intircate things such as soldering metals, drilling stones, etc. These workshops will be handled by the education committee. The fees for speakers, equipment, and supplies will probably necessitate a small charge for the workshops.

Our major goal for the year, of course, is the successful completion of the 1980 National Show. Many things are shaping up very well for this event. Everybody should be planning his or her displays, or planning to work in some capacity at the show. Howard Taylor can utilize a lot of help in this field.

Once again, I want to encourage the membership to participate in all of the club events and to utilize all of the club's facilities to deepen themselves in the pursuit of rocks, gems, geology, jewelry, fossils, minerals, etc.

I will be trying to earn your support and confidence in 1980.

Roger Pabian  
President

From the editor's desk...January--the end of an old year-- the beginning of a new. A time for reflection and a resolve for a better future. 1979 was a good year in many ways; we hope 1980 will be even better. There is a lot of work to be done so let's rally behind our new officers and help them to make this the best year ever.

Happy New Year!

Evelyn

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All beautiful the march of days  
As seasons come and go;  
The hand that shaped the rose hath wrought  
The crystal of the snow;  
Hath sent the hoary frost of heaven,  
The flowing waters sealed,  
And laid a silent loveliness  
On hill and wood and fields.



-Frances W. Wile, 1912

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"Don't keep forever on the public road, going only where others have gone. Leave the beaten track occasionally and dive into the woods. You will be certain to find something you have never seen before. Of course, it will be a little thing, but do not ignore it. Follow it up, explore all around it; one discovery will lead to another and before you know it you will have something worth thinking about to occupy your mind. All really big discoveries are the results of thought."

- Alexander Graham Bell

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January Birth Stone

Natal stone-----garnet  
Guardian angel-----Gabriel  
His talismanic gem-----Onyx  
Special apostle-----Simon Peter  
His gem-----jasper  
Zodiacal sign-----Aquarius  
Flower-----Snowdrop

From the book The Curious Lore of Precious Stones by George Frederick Kunz. Copyright 1913 by J.D.Lippincott Company. Renewal 1941 by Mrs. Ruby Kunz Zinnsser. Used by permission of J.B.Lippincott Company.

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NOTICE...All material for the Pick & Shovel must be on the editor's desk by the first day of the month. There is a dead line that has to be met if the bulletin is to be in the mail 10 days prior to the meeting.. Since it is necessary to know the exact space required for each item, material must be sent to the editor unless previous arrangements have been made!

D U E S     A R E     D U E   !   !   !   !

Lincoln Gem & Mineral Club membership dues are due and payable on January 1 of each year and become delinquent on January 31. In order to retain your continuous membership status we must have your money before February 1, 1980. If dues are late reinstatement must be approved by the Board of Directors and a fee of \$1.00 will be assessed.

Dues for 1980 are: \$5.00 for each adult renewal.  
\$1.00 for each junior under age 16.  
\$11.00 for a family membership which includes two adults and all juniors under age 16 living in the home.

Please send your checks to Lincoln Gem & Mineral Club, Inc., P. O. Box 5342, Lincoln, Nebraska 68505. Please include any address changes, new phone numbers, CB call information which is needed to correct for our new 1980 Who's Who that will be assembled in early February.

Looking forward to seeing you at the January 26 meeting or to receiving your check in the mail.

Phyllis Parks, Treasurer

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Notice to Gem Palette Readers -

Many of you no doubt noticed the listing of amounts due to keep your Gem Palette coming through all of 1980. A few persons have expressed some confusion regarding the figures and I would be pleased to answer any questions as well as I can. As you know LGMC Board approved sending money to make LGMC a 100% club in January of 1979 by paying \$1.00 for each family whose dues were paid by February 1, 1979. You should have been receiving copies every two months since then with the exception of **June** which was not published.

The new editor has determined that all subscriptions shall be on a yearly basis from January through December and shall be paid to NAOESCI Treasurer Betty Mae Friskopp. Thus the list of amounts needed to bring your sub up to January 1981.

Your present Board of Directors have decided not to pay for the continued subscriptions which will expire with the April issue. We sincerely hope that all members who have been enjoying the reports from other clubs in Nebraska and from our Nebraska Association Officers will wish to continue their own subscriptions.

As your treasurer I would be pleased to accept the small amounts needed from each of you and remit with the correct mailing information to the NAOESCI Treasurer. If you have never had a subscription to Gem Palette I'd like to urge you to try it. Cost for the year is \$1.00 and it is mailed in Feb, April, June, August, Oct. & Dec. Contact me if you wish to be on the mailing.

Phyllis Parks, LGMC Treasurer

HOW TO CUT A DIAMOND  
BY David A. Fryxell

PART I

Seldom have more noblemen been more nervous, except in the days when guillotines were running overtime. All eyes were on master diamond-cutter Joseph Asscher, of Amsterdam. But the man of the hour was calm in the midst of the jittery crowd. He'd been studying the giant diamond for two months in preparation for this day. The confident Asscher knew every grain, every line, every surface..

The gem was a rather ostentatious birthday present for England's King Edward VII. He'd attained the age of 66 on November 9, 1907, and the Transvall government thought the \$1.25 million bauble appropriate to the occasion. It was just the Cullinan, the largest gem diamond ever found --- weighing in at 3.106 carats, or 1-1/3 pounds, 4 inches long, 2 1/4 high, 2 inches across.

A doctor and nurse were in attendance at the cleaving, but the spectators seemed more likely to need medical attention than the diamond--cutter. Asscher's hand trembled not at all as he placed a thin steel blade in a previously prepared groove in the diamond, then raised his heavy steel cleaving rod.. There was a collective holding of breaths...blue blood pulsed a bit more rapidly. Asscher struck. The blade broke!

A room full of royalty gasped. But Asscher only smiled a professional little smile and fitted a second blade into place. The cleaver went up. Noble hearts quickened--then Asscher struck again--the great diamond split neatly into three stones, Precisely as planned!

Then, Joseph Asscher fainted dead away!

Now, all that was back in 1908, and today there are far fewer Kings and their birthday presents tend to be more restrained. But the art of diamond-cutting continues very much as it was in the early 1900s, not so different even from its beginnings in the 15th century.

It's a very tense business. Had Asscher failed, it would have cost him his reputation. In the Middle Ages, a diamond-cutter who spoiled a stone lost not just a customer, but his life. It's not at all the sort of thing to be carried on in the back seat of moving automobiles, despite what recent television commercials would have you believe.

Of course, much of it is routine. What we think of as "diamond-cutting" -- really, cleaving -- is only a fraction of the whole enterprise. In the United States, 95% to 98% of the diamonds are sawed, rather than cleaved, because American cutters have traditionally handled only less-irregular stones, for which cleaving is ill suited. The odder gems are more likely to go to the great diamond center of Antwerp, Belgium, for cleaving.

From TWA'S AMBASSADOR MAGAZINE  
Submitted by Helena Baegl

Part II next Month

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The diamond was often associated with lightning, and to owe its origin to the thunder bolt. The diamond was believed, sometimes, was consumed or melted when it thundered.

In Memorium

Gone, but not forgotten.

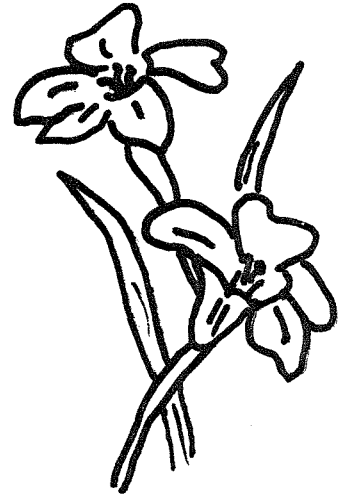
Virgil Carveth laid down his rock pick for the last time on December 23, 1979.

He became a member of the L.G.M.C. in the year of 1958. He was our 6th President in the year of 1960; served many offices and lots of Committees for the Club. He participated faithfully at all our shows. One of his better known displays was "Stones of the Bible".

To those who knew him, I am sure he was a true and lasting friend.

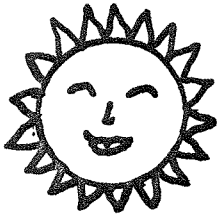
He leaves behind a multitude of friends who will miss him.

Howard Taylor



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Greetings from the Sunshine Corner:



"Those who bring sunshine to the lives of others cannot keep it for themselves."

A second get well card was sent to Virgil Carveth.

A get well card was sent to Ray Sincebaugh who is home recovering from an accident.

Until next month!

Suze Sunshine

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There's rosemary, that's for remembrance.

-William Shakespeare

HIGHLIGHTS FROM HELENA

Happy New Year to You-All!

John and Lillie Lewis had their son and John's sister with them for Christmas. John is already working on his Funny Machine for the 1980 Big Show, and he asks that if anyone has anything he can incorporate in his Machine, such as flashing lights, or any "funny" he will be glad to hear from them. Let's help him out, as his Machine is a big show-stopper.

Guess the Irl Everetts have already flown to the Sunny South.

The Waddles had a pleasant week's trip to Longmont, Colo. the week before Thanksgiving. Their son took them to Estes Park and other points, and their Lincoln son brought them home.

Glenna McGinnis wishes to say "Thank you" to all the friends who visited them and sent cards and letters during George's illness this fall. They were very much appreciated.

The Baegls had a pleasant Christmas dinner for eight shirt-tail relatives. We have only one brother, who lives in Oxbow, (Hell's Canyon) Oregon, who was not with us.

Those of you who did not attend the annual Christmas Club dinner missed a nice time. I, for one, was sorry we didn't have the usual gift exchange--once in a while you hit the jack-pot, y'know. Let's have it again next year.

The Youngs' son, David, who teaches Greek at the University of California, is now attending the annual Philologists convention in Boston, and will stop here for a two-day visit with his parents on his way back to Santa Barbara.

Their elder son, Don Fallbeck (stage name) is playing the part of "The Spirit of Christmas Present" in the Dickens Christmas Carol play in Minnesota at the Guthrie Theater.

Daughter Kay is back in Lincoln from Western Kentucky University, Bowling Green, Kentucky now working on her Masters Thesis on Folklore.

Marge Heedick left for Australia a couple of days before Christmas with a cousin, and won't be back until early February.

Mr. and Mrs. Robert Litzenberg and daughter, Mary, of Kansas City, Missouri spent Christmas with Robert's parents, Me. and Mrs. Glen Litzenberg.

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Plan to visit our shop when we get back.

Everett's Lapidary Shop

HAPPY NEW YEAR -(Yes, but what kind?)  
-by J.D.Young

Of course, we wish all of you rockhounds, pebble pups and related hobbyists the usual annual greeting, to last through all of 1980. But which of the many kinds and lengths of year is our standard of duration? There are several besides Leap Year which this one is, but there is an assortment of lengths not so generally known.

I am not an expert authority on this subject, but I have a rudimentary understanding of the various factors involved. I have studied printed materials and also have been a student in astronomy and related earth sciences. In my personal library are many interesting publications.

While searching my files I found two reasonably understandable sources from which excerpts with my own comments are here to be given. One is a small leaflet Current Science, Vol. 27, No. 16, Jan..5-9, 1942. The other is The Day of the Two Noons, by Carlton J. Curtis, manager Public Section, Ass'n of American Railroads, a talk at the annual meeting of Local Watch Inspectors, Chicago Towers Club, August 26, 1941.

The above are not exactly "Space Age" oriented, no star wars or treks mentioned and no batteries needed; but I think they are modern enough to be apropos here. So we should not belittle them because of their antiquity! They seem to be timeless, and I hope a few excerpts from each may be in order.

From Current Science, January 5-9, 1942.

#### Happy New Year - In Six Varieties

We wish you a happy calendar year.....  
We wish you a happy tropical year.....  
We wish you a happy siderial year.....  
We wish you a happy anomalistc year....  
We wish you a happy lunar year.....  
We wish you a happy chronological year..

Since it is not possible to evenly divide 1942 by 4, that Current Science could not wish the reader a happy Leap Year, but now in 1980 we can do that too. February gets 29 days again this year, instead of the usual 28, to compensate for the earth's  $165\frac{1}{4}$  day revolution period about the sun. Every 4 years a day added to February slowly introduces a slight error over many centuries of time. To correct this the centurial years must be divisible by 400 to qualify as Leap Years. That explains why 1900 was not 366 days long, but there was a presidential election, normally held every 4 years. (Old Pick & Shovel savers may like to refer to my February 1976 pps.11,12 article "Concerning Leap Years and Calendar".

A Calendar Year runs from midnight of two successive New Year's eves, 365 days. A Tropical Year is the time our planet requires to complete all the turns in its path around the sun and to come to exactly the same position again. It begins at the spring (vernal) equinox which in 1980

HAPPY NEW YEAR - continued

will be on March 20, according to my almanac. The Siderial Year is the time necessary for the earth to make one complete revolution around the sun with the stars as a background. It is several minutes longer than a Tropical Year.

The anomalistic Year begins the moment the earth, in its elliptical orbit, is nearest the sun. This happens a few days after the calendar year begins. Winter in the Southern Hemisphere is 6 months later, when the earth is farthest from the sun. This may be one reason why Antarctica is so cold. (Anyway the penguins don't seem to mind it.)

The Lunar Year comprises 12 complete revolutions of the moon around the earth, 354 days. Some religious faiths follow this; so their calendars have 19 year sacred cycle. A Chronological Year runs from one birthday to another. As some age-sensitive persons grow older they seem to lose count of these. Jack Benny was always 39, and many others choose to celebrate the 10th anniversary of their 23rd birthday instead of the 33rd, for example.

Now about The Day of the Two Noons which occurred on Sunday, November 18, 1883, when Standard Time sponsored by the railroads, was adopted throughout the United States and in many parts of Canada:

With the possible exception of the change from the Julian Calendar to the Gregorian Calendar in the 17th century, no other time reform in all history was of greater significance than the adoption of Standard Time...Prior to November 18th, 1883...the only "time" that existed in this country was local time or "solar time", which was based upon the passage of the sun across the meridian, and which varied in the latitude of Chicago approximately one minute for every thirteen miles or one second for every 1,140 feet of longitude.

When it was noon in Chicago, it was 12:31 in Pittsburg; 12:24 in Cleveland; 11:50 in St. Louis; and 11:27 in Omaha.

A traveler going from Eastport, Maine to San Francisco, if anxious to have correct time, was obliged to change his watch some 20 times during the journey!

So one can readily understand how we in Central Time zone receive New Year by our clock, an hour later than New Yorkers, and 2 hours earlier than Californians. That goes on, one hour for every 15 degrees of longitude, until we reach the International Date Line, approximately on the 180th meridian in the Pacific Ocean where each new day begins. There the date line is deviated near the Fiji Islands to avoid confusing the Fijians by having Monday on the west edge of their houses while Sunday still prevails on their east side. Anyway that makes everyone happy.

J.D.Y.

P.S. In this "jet age" of fast comings-and-goings time zones, date lines and calendars are all part of the day's work! (or play).

J.D.Y.

JUNIOR PAGE

Hi Juniors,

Hope you had a nice vacation and are enjoying getting back to school, Time sure flies. Won't be long before we have our Big Show in June. Do plan to have a nice display ready. We are very proud of our Junior members and want people to see what they can do.

Happy New Year!

Mrs. Evelyn Ulrich

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A UPI story tells of a boy deer hunting with his Dad in Wyoming. He picked up an interesting looking rock and took it back home with him to Minnesota, where it wound up in the Museum of Science. Tests have just shown that the rock is the fossilized egg of an ancestor of today's crocodile. Which reminds me anyone attending the field trips of the Rocky Mountain Federation convention in South Dakota should also be on the lookout for fossil eggs. They are among the notable fossils of the Badlands.

From the Concretionary Column by June Zeitner AFMS Newsletter 6'79..

The Show and convention are over, but the eggs may still be there.  
Editor

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Question: Why did the pig go to the football game?  
Answer: He wanted to root.

-via Gem City News

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If you are studying earth science in school you should learn that there are three groups of rocks- Igneous Rocks, Sedimentary Rocks and Metamorphic Rocks.

Igneous rocks are those that have been formed from molten rock; they are found either below the earth's surface or on the surface. They do not contain fossils, nor do they have the layered look of sedimentary rocks. Intrusive rocks far below the surface have cooled very slowly under pressure. The result is a rock composed of large crystals, such as coarse-grained granite. Extrusive rocks have cooled rapidly in the atmosphere under low pressure. These rocks contain small crystals or none at all, such as basalt and obsidian. One of the commonest igneous rocks is granite. It is found in mountainous area where it is often pushed up during mountain forming movements. If the molten rock cooled near the surface, the crystals are small and the rock is known as rhyolite. Basalt is very dense and has very small crystals. It is often found in columnar structure. It contains less silica than granite. If the basalt forming rocks cooled slowly within the earth they have coarse grains and large crystals and are called gabbro.

Next month we will read about Sedimentary Rocks.

POTPOURRI

Here are some camping tips you may want to try:

Waterproof Wood Matches...Dip them into nail polish and let them dry. This will protect tips from dampness and they will strike easily.

Line hats with aluminum foil...You'll be a lot more comfortable out in the sun.

To make your own ice for your ice chest...Fill the containers and allow to sit in the open for 24 hours before freezing. This will let dissolved gasses in the water to escape, so there will be no taste or odor to the ice.

If you can't find a candle...Wrap a tuft of cotton around a toothpick, coat this cotton "Wick" with petroleum jelly and insert into a jar and light it.

A Make-Shift Strainer...Can be made by poking holes in the bottom of an aluminum foil pie plate. Turn it upside down over the frying pan when you fry meat-the steam can escape but fat can't spatter.

-via Chips & Facets May-June- 1978

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Forbidden fruit is responsible for many a bad jam.

Auburn Ore Bin via American River Currents

\*\*\*\*\*

Science For the Young

Arthur with a lighted taper  
Touched the fire to grandpa's paper.  
Grandpa leaped a foot or higher  
Dropped the sheet and shouted, "Fire!"  
Arthur wrapped in contemplation,  
Viewed the scene of conflagration.  
"This", he said, "Confirms my notion--  
Heat creates both light and motion."  
- The Template

\*\*\*\*\*

Glass Birds'Nests...Did you know that there are birds' nests of volcanic glass? At least three species of birds in Hawaii National Park are known to build their nests out of spun volcanic glass. Droplets of lava squirt into the air, then solidify into filaments known as "Pele's Hair". Thousands of the delicate fibers are used by the birds in building a single nest.

Earth Science News via Pick and Chisel Oct. 1979

\*\*\*\*\*

Don't forget to pay your dues.

Lincoln Gem and Mineral Club, Inc.

LET'S STEP OUT TO THE...



**SECOND ANNUAL**

MID - WINTER



# ROCK SWAP!

SATURDAY, JANUARY 26, 1980

TRABERT HALL - 11<sup>TH</sup> & SOUTH

DOORS OPEN - 12:00 NOON

ADMISSION: ONE ROCK FOR SILENT AUCTION.

FREE COFFEE

MAGIC SHOW

THE SWAP WILL BE FOLLOWED BY THE REGULAR MEETING AT 7:30. GEORGE VAN DAM, LN-L WILL PRESENT A SLIDE PROGRAM ON VERTEBRATE FOSSILS.

GEORGE IS AN EXCELLENT MAGICIAN AND HAS CONSENTED TO GIVE A DEMONSTRATION OF THIS ART.

BE SURE TO BRING THE FAMILY!

SWAPPERS BUCKS AVAILABLE. PROCEEDS FOR SCHOLARSHIP FUND. OF COURSE, WE WILL TAKE MORE THAN ONE ROCK FOR THE AUCTION.

# Midwest Federations NEWSLETTER

Published monthly except July and August as a service to member clubs. All news, articles, subscription orders and requests for information should be sent to the Editor, Haydon Peterson, Parrot Printing, 2125 Forest Ave., Des Moines, Iowa 50311

**PRESIDENT**  
Mrs. Bernice McCloskey  
P.O. Box 527  
Elm Grove, WI 53122

**FIRST VICE PRESIDENT**  
Milford J. Sharp  
3901 West 210th St.  
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**SECOND VICE PRESIDENT**  
Larry Nawojski  
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Oakdale, WI 54649



January 1980 - Issue No. 200

## NEW APPOINTMENTS

MWF President Bernice McCloskey has announced the appointment of Mary Edwards, 306 Samonauk Ave., Park Forest, Ill. 60466 as the new Membership Chairman. She will assist new societies in becoming Federation members. Our thanks to Caroline Meyenberg who so capably filled this position for so many years.

Bernice has also confirmed the appointment of Fred Bermke, 9135 W. Hawthorne Ave., Milwaukee, WI 53226 to serve as the new State Director for Wisconsin. Fred and wife Evelyn has been very active in the Wisconsin Geological Society and state projects. He is the former Assistant State Director for the southeastern part of Wisconsin.

## DIRECTORY INFORMATION

Very soon, if not already, your club has received a form on which to list the names and addresses of your officers for 1980. This information is needed to include in the Midwest 1980 Directory now in preparation. Please see that this form is completed immediately and returned so that your clubs information will be current in the new directory.

## BANQUET SPEAKERS SELECTED

The Lincoln Gem and Mineral Society, Lincoln, Nebraska, host to the AFMS 1980 National Show and Convention, has selected June Zeitner and Katie Steinbrenner as the banquet speakers.

### Midwest Has New Official Magazine

## ROCKS AND MINERALS MAKES MAGAZINE OFFER TO CLUBS

Rocks and Minerals has been named the official magazine of the Midwest Federation.

Rocks and Minerals is making a special offer to acquaint clubs with the magazine, and at the same time enable them to participate in a community service project at no additional cost to their members or treasury.

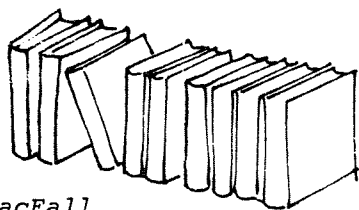
For every nine subscriptions a society sends, the magazine will send a tenth subscription free in that society's name to the institution of their choice, whether public library, school library, or geology department of a local university. The nine subscriptions may be new, renewal, or extension subscriptions.

A club representative should send information and payment for nine subscriptions, together with the name and address of the designated institution to Rocks and Minerals, 4000 Albemarle St., N.W., Washington, D.C. 20016. Individual subscriptions are \$10 for six issues; institutional subscriptions are regularly \$15.

June is a Special Assistant Editor of Lapidary Journal, renowned authority on gems and minerals, writer, and Past President of the Midwest. Katie is a Past President of the Midwest and a Past President of the American Federation.

I-80 ALL THE WAY TO LINCOLN, NEBRASKA IN '80 FOR THE NATIONAL/MIDWEST SHOW

## BOOKS



By Russell P. MacFall  
P.O. Box 309, Coronado, CA 92118

International attention has been attracted to a small farm in Illinois where an archeological excavation has been in progress for ten years. The Koster site, as it is called, was the home of North American Indians as far back as 9,500 years ago. But what is more important than its age is that this stratified record of Amerindians has been made to disclose amazing insights into the life, habits, health and even diet of the first inhabitants of this continent.

This has been made possible by the enthusiasm, leadership and revolutionary archeological methods of Stuart Struever, of Northwestern University in Evanston, Ill. Rather than digging for artifacts, he recruited students, summer after summer, to dig in the Illinois prairie heat, and unfold layer by layer the evidence of settlements from 1200 A.D. back to 6700 B.C., and brought in experts to read the story of life there from bones, seeds, shells, pollens, stones, and skeletons recovered and analyzed by new methods.

"The North American aborigines were not ignorant savages," writes Streuver in stating that the Koster dig rewrites history. "They were clever, intelligent people, capable of planning and executing complex strategies for taking abundant foods and raw materials from the wild resources in their environment to permit them to lead a very good life."

"Koster: Americans in Search of Their Prehistoric Past" is a full account of Dr. Streuver's career and the events that led him to Koster, as well as a systematic explanation of the scientific approach and its results. It is published by Anchor Press Doubleday in 1979 under the joint authorship of Dr. Streuver and Felicia Antonelli Holton, former editor of the University of Chicago magazine. Its landmark importance is recognized as an alternate selection by the Book of the Month Club.

## AUCTION SCHEDULED FOR NATIONAL SHOW

A feature of the American Federation annual show and convention, hosted by the Midwest Federation, June 12-15, Lincoln, Nebraska will be an auction. This will be an opportunity for clubs to earn money toward the AFMS Scholarship Fund.



Minerals, fossils, polished specimens, books and jewelry are among the items accepted for auction and past experience indicates they all sell very well.

You should identify all specimens, make a list of them and be sure to give the complete name and address of your club so that proper credit can be given.

Norman Brown, 360 Tonga Drive, Hiawatha, IA 52233 is chairman of this auction committee and if you wish additional information, please write to him.

## FOSSIL COLLECTION PRESENTED TO SCHOOL OF MINES

A collection of fossils and minerals from Iowa, Minnesota and Wisconsin have been presented to the Museum of Geology at South Dakota School of Mines & Technology by the Francis Sawyers of LaCrosse, Wis., members of the Coulee Rock Club of Wisconsin.

Dr. Phil Bjork, museum director, said the gift is an invaluable addition since the museum has a limited collection of Ordovician (480 million years old) and Devonian specimens from the Minnesota, Iowa and Wisconsin area.

---

PLAN NOW TO ATTEND! AFMS SHOW & CONVENTION, LINCOLN, NEB., JUNE 12-15

---

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Read your bulletin to spot *new materials* or *specials* of the above advertisers.

Advertising by a rock-hobby business or interest is permitted with approval of the Board, at a rate now set at \$10.50 per full page per insertion, paid in advance. 1/2 page \$5.25, 1/3 page \$3.50, 1/4 page \$2.75 (min). These ads will be placed throughout the bulletin as space permits.

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

Dues to LINCOLN GEM & MINERAL CLUB are as follows:

Adult membership fee ~~\$4.00~~ (age 16 and over)

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

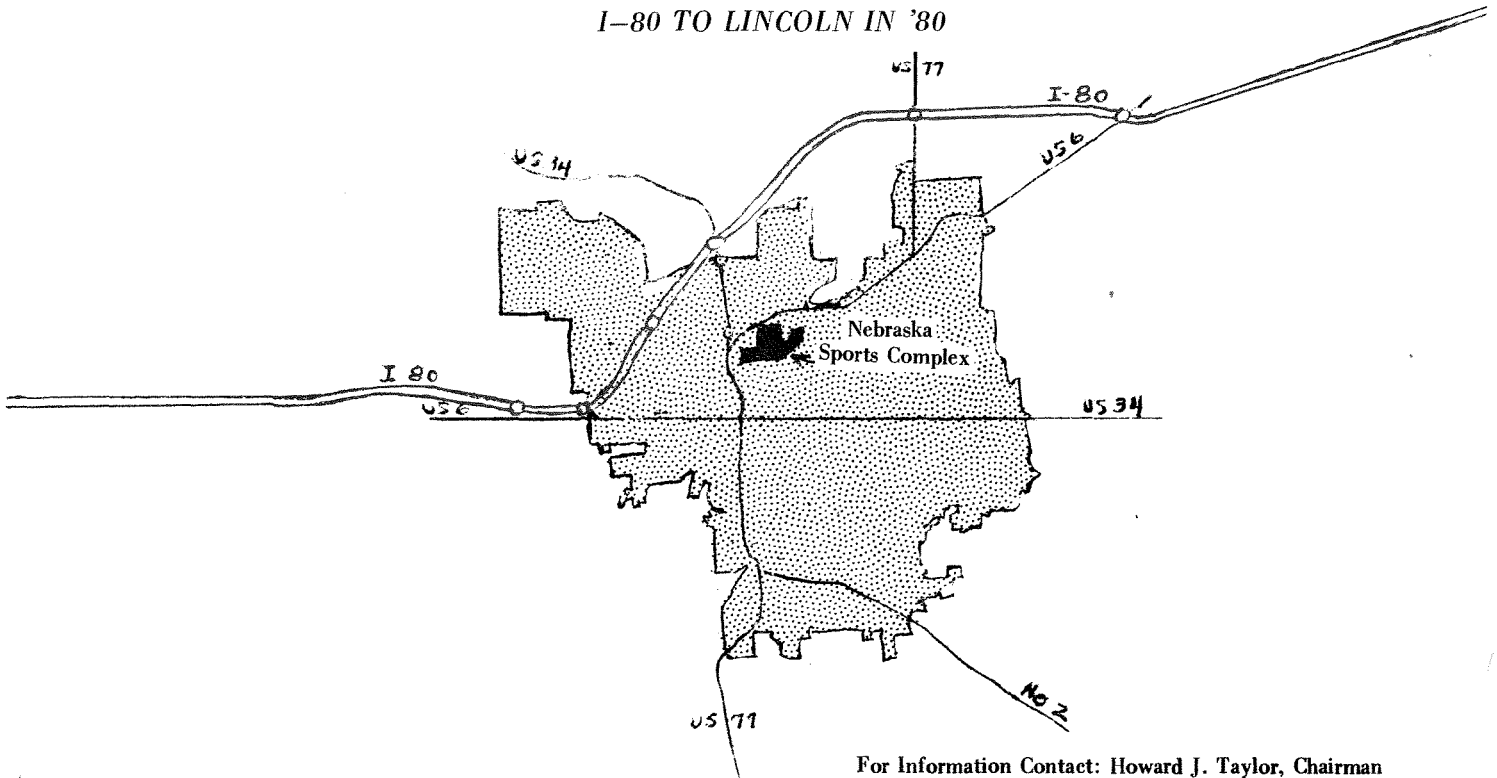
Family membership fee ~~\$9.00~~ (husband, wife and all children under 16 - permanent residents of household)

\$5.00

\$11.00

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.


HOST TO  
NATIONAL GEM AND MINERAL SHOW, June 12-15, 1980  
I-80 TO LINCOLN IN '80



For Information Contact: Howard J. Taylor, Chairman  
910 New Hampshire St.  
Lincoln, Nebraska 68508  
Phone: (402) 432-3707



Lincoln Gem & Mineral Club  
Box 5342  
Lincoln, Nebraska 68505



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