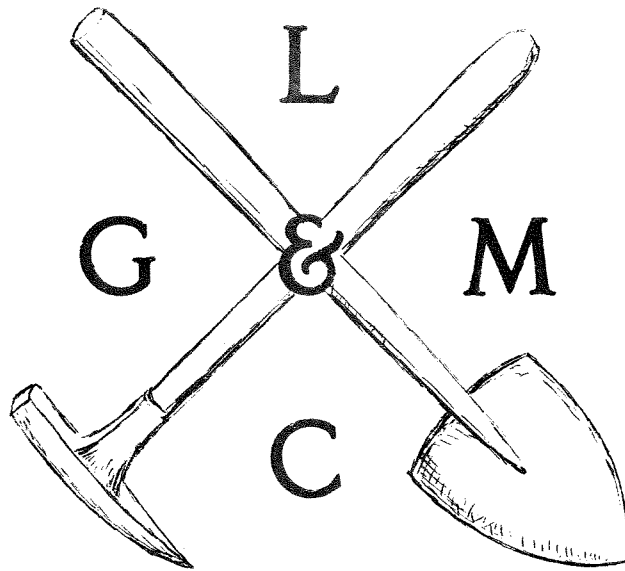


THE PICK & SHOVEL



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.
1979 - Trabert Hall, Lower Level, 2202 So. 11th St.

1979 ELECTED OFFICERS & COMMITTEE

President.....	Howard Taylor	910 New Hampshire	Lincoln, 68508	432-3707
1st Vice Pres...	James Marburger	1910 So.26th,Apt.B	Lincoln, 68502	432-0214
2nd Vice Pres...	Bob Daniels	4030 St. Paul	Lincoln, 68504	466-5036
Recording Secy..	Vera Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
Treasurer.....	Hazel Greenwade	6027 Fremont	Lincoln, 68507	466-4788
Board Member....	Larry Bigley	6126 Hartley	Lincoln, 68507	466-0211
Board Member....	Ray Lambert	1201 N. 79th St.	Lincoln, 68505	464-8552
Board Member....	Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	432-6798
Board Member....	Frank Rule	6333 Kearney	Lincoln, 68507	466-1697

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

STANDING COMMITTEE CHAIRMEN:

Program	Bob Daniels	Liaison & Calling	Marie Taylor
Education	James Marburger	Refreshments	Sylvia Daniels
Hospitality	Goldie Quinn		Shirley Roberts
Historian	Lois Everett	Scholarship	Ed & Vivian Johnson
Librarian	Paul/Stam Greenwade	Special Outside	
Membership	Marita Bigley	Displays	Virgil Carveth
Field Trips & Safety	Frank & Tom Rule	Housing & Property	Dick Roberts
Sunshine Corner	Susan Taylor	Publications	Larry Bigley
NAOESCI Reporter	Evelyn Ulrich	Auditing Comm. 1979	Dick Roberts
1979 Show Chairman	- Glen Lyman		Nelda Oliver
			Marie Taylor

LONG RANGE PLANNING & BY-LAWS COMMITTEE

1 year remaining..Larry Bigley & Don Carter, 2 years remaining..Nelda Oliver &
John Harrison (John-Chairman), 3 years to serve..Jim & Phyllis Parks

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...Larry Bigley (466-0211)
Editor Evelyn Ulrich, 3521 S. 48th St., Lincoln, Ne. 68506, Phone 488-9051

Club News	Helena Baegl	Artwork Stenciling	Jim Parks
Sunshine	Susan Taylor	Publisher	Phyllis Parks
Typists	Flossie Litzenberg, Marita Bigley & Linda Parks		

Deadline for material to be printed is 1st of month it is to appear

Articles published in THE PICK & SHOVEL may be reprinted if credit is given the
author and the bulletin, and a copy of the publication is sent to the editor.

CALENDAR

NOTICE - Meeting changed because of Memorial Week-end

Regular Meeting... May 19, 1979, Trabert Hall,
2202 S. 11th St., 7:30 P.M.

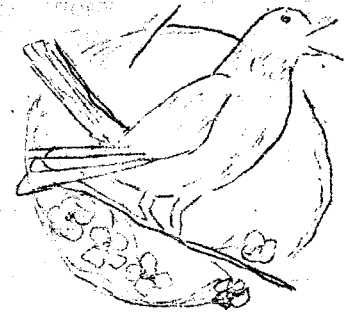
(This is 3rd Saturday rather than 4th.)

Program... L.G.M.C. Scholarship Recipient, Larry Irons
will present his thesis. His field is Structural
Geology.

Refreshments..... Will be served by Refreshment Committee.

Field Trip..... May 26-28. Meet in Flemington, Mo. Signs will be posted.
Mr. Rule, the Wagonmaster, will be there to greet you and
take you to the hunting area. You will be hunting for
Mozarkite and Drusy Quartz.

L.G.M.C. Board Meeting... Home of Howard Taylor, 910 New Hampshire,
7:30 P.M. June 7, 1979



1979 Dates to Remember

- May 19-20 Hot Springs, S.D. Picture City Gem & Mineral Society Show
- June 2-3 Hebron, Ne. State Swap, City Park
- June 16-17 Beatrice, Ne. Homestead Gem & Mineral Society Swap
- July 21-22 Columbus, Ne. Loup Valley Gem & Mineral Society Show,
Holiday Inn
- Aug. 18-19 Crawford, Ne. Northwest Nebraska Rock Club Show,
City Pavillion
- Sept. 1-3 Omaha, Ne. Nebraska Mineral & Gem Club Show,
Holiday Inn
- Sept. 21-23 Kimball, Ne. Plains Gem & Mineral Club, Show
4-H Bldg.
- Sept. 28-30 North Platte, Ne. Platte Valley Rock & Mineral Club Show,
National Guard Armory
- Oct. 20-21 Grand Island, Ne. STATE SHOW, Fonner Park, Hosted by
Grand Island Earth Science Society
- June 12-15, 1980 Lincoln, Ne. National Show, Hosted by Lincoln Gem
and Mineral Club

CALIFORNIA	EASTERN	MIDWEST	NORTHWEST	ROCKY MOUNTAIN	SOUTH CENTRAL
Sacramento, California June 22-24	Tampa, Florida July 12-15 NATIONAL SHOW	Columbus, Ohio August 2-5	Kennewick, Washington Sept. 1-3	Rapid City, So. Dak. June 8-10	Abilene, Texas May 18-20

LAST MONTH - We had a good turn-out of members for the April 28, 1979 meeting. We welcomed as guests Dennis Roethur, Pat Bury, Judy Hinkley, Mr. & Mrs. Raymond Taylor, Mr. & Mrs. August Dreier and Frank, former member Andy Zarins, 1979 IGMC Scholarship recipient Larry Irons, and Shirley Johnson, Instructor at Southeast Community College who gave us a fine lecture on 'Silversmithing'.

Reports were made and financial statements for the 1979 Annual Show were presented to the members. Glen Lyman, Show Chairman, and Vera Lyman who was in charge of publicity and preparer of the financial were very pleased to report a handsome overall profit on the event. Congratulations to the Lymans for a job well done.

Some of our new 'Silver Anniversary' buttons and cloth patches were available from the President and will be at the May meeting. Please be sure to purchase what you wish for yourself and family.

The May meeting has been moved forward one week to May 19 because of the Memorial Week-end Field Trip to Missouri.

.....

10 YEARS AGO - In May of 1969, Roger Pabian presented a program of slides on the subject of "Through the Geological Time Column with Fossils". Also we had a reception at Sheldon Art Gallery for Dr. John G. Niehardt. It was sponsored by IGMC.

Yesterday 10

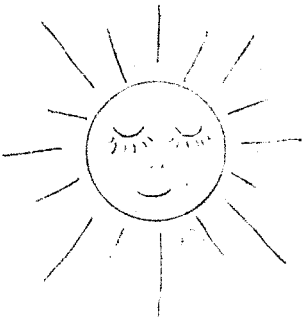
20 YEARS AGO - May of 1959 brought this thought to Evy and Lois - "I'm sure most of us remember John Lewis' "crazy" automatic cab maker. John, you should get that out again for the 1980 show or maybe the 1979 show."

Way 20 Back

from the notebooks of Lois Everett, Historian

.....

Greetings from the Sunshine Corner:



"All . . . pleasures are simple ones; the rapture of a May morning sunshine, the stream blue and green, kind words, benevolent acts, the glow of good humor."

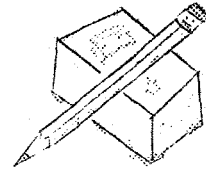
F. W. Robertson

No cards were sent this past month. A get-well should have been sent to our club president -- but I didn't think of it until we brought him home from the hospital. You don't remember club duties when your dad is in the hospital!

Unitl next time!

Suze Sunshine

FROM THE PRESIDENT'S DESK



Fellow Rockhounds:

Hopefully spring has arrived, at least its time for field trips. Sounds like Frank has a good field trip lined up for the club. Hope we have a nice turn out for it.

Swaps are in full swing, so looks like we will have plenty of places to go. If you haven't been to a swap, you should try one, they are and can be quite rewarding.

Please keep in mind that we are going to do some work for the day care center (Trabert Hall). We will need some volunteers for this project. As you know we do not pay rent for the hall so this is one way we can show our appreciation. Please say 'yes' when you are called to help.

We still need some people to be delegates to our state convention meeting to be held in Grand Island in October. If anyone is interested please contact your President.

Don't forget our meeting will be one week early this month, May 19th. Hope to see you there.

Howard

From the Editor's Desk...This will be the last regular issue of the Pick & Shovel until September. Special issue may be done if important information must be gotten to friends and members. Please take note that the date of the May meeting has been advanced to May 19th since the field trip to Missouri begins on May 26th.

Many of you are planning to attend the Rocky Mountain Federation Show at Rapid City in June. It sounds as if it will be very good with some outstanding field trips. If you have never hunted rocks in South Dakota, you have a great experience in store for you. The rock breaks abound in good cutting material and there is always the chance of finding a nice Fairburn or a cycad. They are scarce, but some are still found. Remember there is a field trip schedule following page 12 in your April Pick & Shovel.

Have a nice summer and do bring some of your bragging rocks to the September meeting.

Evelyn

Hope you saw the \$1,000.00 ruby and diamond custom made ring that Glen Ulrich and his Midwest Manufacturing Jewelers donated to the Educational TV Auction. If you watched the auction on Channel 13 you saw it listed among their major donations as "ladies diamond ring."

Phyllis Theroux, on gardening:

It all began with a plot of earth and a packet of seeds. I felt a contained excitement, jacketed like a seed within the soil. Looking at that brown raked square, laid out with a string, I realized that I was nothing more than a custodian to a mystery beyond my comprehension.

I think this is what hooks one on gardening: it is the closest one can come to being present at the Creation.

- New York Times via Reader's Digest

Park Passports

The National Park Service has Golden Eagle Passports available. This passport costs \$10.00 for one year and permits the owner and everyone with him in his vehicle to enter many federal and recreation areas where entrance fees are collected.

Golden Age passports, which are lifetime entrance permits are available to persons aged 62 and older. They are free.

These passports are available at the Game and Parks Commission, 2200 No. 3rd., Telephone: 464-0641.

Field Trip to Stone Mountain

"Monadnock--an isolated resistant hill or mountain left when erosion has reduced the surrounding land to a peneplain." And there in my textbook of long ago was the picture of a huge mountain of granite standing alone on the Georgia plains--Stone Mountain.

Naturally, when I learned that I could attend the National Congress on Aerospace Education at Atlanta, Ga., April 4-8, 1979, just sixteen miles from Stone Mountain, the legendary dome was what I most wanted to see. I was not disappointed. The very first glimpse of the world's largest exposed granite monolith was exciting.

The geology of Stone Mountain is unique. The mountain is 825 feet above the surrounding land, which is itself a dividing ridge. The exposed granite covers 25 million square feet, or 583 acres, and is seven miles around the base. Several million cubic feet of granite have been used for buildings in Atlanta and elsewhere; for locks of the Panama Canal; the U.S. Capitol Building in Washington, D.C.; the Imperial Hotel in Tokyo, Japan; University of Havana in Cuba; and many other buildings, bridges, roads and tunnels throughout the U.S. But all this quarrying shows only as insignificant peelings taken from the eastern and western slopes.

Some three hundred million years ago, when molten stone was pushed with tremendous force into the layers of rock above it, the land in the area was perhaps 10,000 feet higher than it is now. The granite cooled underground for perhaps a hundred million years. This slow cooling resulted in the compact, uniform crystals of the fine gray granite. While the cooling went on, the older, softer granite overhead was weathering, turning to soil, and eroding away. As the weight of its overhead burden was lessened, the mountain rose and is continuing to rise as the original crust still wears away faster than the granite dome.

For many visitors Stone Mountain Memorial Carving on the side of the mountain seems to overshadow the grandeur of the mountain itself. The figures are of Confederate heroes--Confederate President Jefferson Davis and Generals Robert E. Lee and Stonewall Jackson. Some indication of their huge size can be gained from the 90-foot height of the figure of Lee and the fact that his horse, Traveller, is the size of five steam locomotives. Probably of Greatest interest to IGMC members is the fact that the carving was begun in 1923 and later abandoned by Gutzon Borglum of Mt. Rushmore fame, whose son, Lincoln Borglum, was our 1974 National Show banquet speaker. The actual carving was done with a thermo-jet torch which used the exploding force of steam to flake off the surface crystals at the rate of several tons of stone a day. Blasting with dynamite was too likely to fracture the granite.

continued

FIELD TRIP TO STONE MOUNTAIN - continued

Stone Mountain has been developed into a full-blown tourist attraction, but that does not spoil the delight of a trip to the top of the mountain in a Swiss skylift. What a wonder to walk about on the top of that huge dome, among the depressions where fairy shrimp only an eighth of an inch long live in clear freshwater pools in the rainy season. Scientists believe that the adult shrimp die when the pools dry up, leaving their tiny eggs to hatch when the rains return. The rock is far from lifeless, barren though it looks from a distance. Trees grow in a few crevasses, lichens are everywhere, and there are many types of wildflowers. The tiny red-leaved Stonecrop looked like pools of blood; but later the rare Hypericum (gold cup) will bloom on the steep sides, as will the common evening promrose.

From the Skylift we could see curious little saucer-shaped depressions all over the upper surface of the mountain. Of course the mountain is a natural target for lightning. The extreme heat of a lightning bolt causes it to behave much like the thermo-jet torch with which the sculptures were carved. The moisture in the outer layer of rock is suddenly changed to steam and blasts off the surface crystals, making the little depressions, four to six inches across. The heat fuses the bottoms of the depressions, leaving a slick, glassy surface. These depressions are thickest in basin areas rather than on the highest points because that is where the first drops of a shower soak into the granite and make the best ground to attract the lightning.

Although Stone Mountain is now a State Park, visitors are invited to collect specimens. So if you want a bit of grey granite (weathered) and a lot of wonder at one of Nature's marvels, do visit Stone Mountain if your summer takes you anywhere near.

Florence Boring

.....

We've heard that several club members plan to take in the Rocky Mountain Federation Show, June 8 to 10, at Rapid City, SD and Evelyn has secured additional information that may be of interest to you.

It is being held at Rushmore Plaza Civic Center. Pre-registration fee is \$4.00 for 3 days and may be sent to : Pat Campbell,
Black Hills Mineral Society
P. O. Box 549
Rapid City, SD 57709

Registration at the show will begin June 8 for all events. Evelyn has a few exhibitor's forms available if you wish to display.

Here's hoping that everyone who attends has a great experience, enjoys some of the many field trips they have scheduled, comes back with lots of good memories, which they can share with the rest of us.

THE ENERGY CRISIS

--- by J. D. Young

Our Lincoln Gem and Mineral Club is now affiliated with the Nebraska Academy of Sciences. The 89th annual meeting of the Academy, April 20-21, 1979, was at the Olin Hall of Science on the Nebraska Wesleyan University campus in Lincoln. The program consisted of many sections assembled in different rooms at the same time. LGMC Honorary Member, Dr. C. Bertrand Schultz, Academy Executive Director for many years, participated in the programs, especially Earth Science. Also, LGMC Member, Roger K. Pabian, ably presented a part of the Earth Science program with an illustrated number about Crinoids from the Argentine Limestone of Southeastern Nebraska and Southwestern Iowa.

Following the Friday Annual Banquet and Presentation of Awards in the Campus Center dining room, the Academy group assembled in the Olin Auditorium B for the Maiben Memorial Lecture. The speaker, Dr. Albert A. Bartlett, Department of Physics and Astrophysics, University of Colorado, Boulder, captivated the audience with THE FORGOTTEN FUNDAMENTALS OF THE ENERGY CRISIS. This was almost timely subject and exceptionally well presented.

Dr. Bartlett projected graphs and figures on the screen to illustrate his points. The ideas and facts were well organized, and easily understood by all. After the program copies of a 14-page summary of the feature were available, free. Needless to say, they were all taken from the table in a very few minutes. A quote from Aldous Huxley was printed at the top of the first page, "Facts do not cease to exist because they are ignored."

The following paragraphs include some of the "gems" from Dr. Bartlett's 14 pages:

We have the vague feeling that Arctic oil from Alaska will greatly reduce our dependence on foreign oil. ... The divergent discussion of the energy problem creates confusion rather than clarity.It then follows in the minds of many that the shortage can be "solved" by congressional action in the manner in which we "solve" social and political problems.

What are the fundamentals of the energy crisis?When a quantity such as the rate of consumption of a resource (measured in tons per year or in barrels per year) is growing a fixed per cent per year, the growth is said to be exponential.As an example, a growth rate of 5% will result in doubling the size of the growing quantity in ... 14 years.Exponential growth is characterized by doubling, and a few doublings can lead to enormous numbers.

On April 18, 1977 President Carter told the American people

"And in each of these decades (the 1950s and the 1960s) more oil was consumed than in all of man's previous history combined."

The growth rate which has this doubling time is7% per year.Many people find it hard to believe that when the rate of consumption is growing a mere 7% per year, the consumption in one decade exceeds the total of all the previous consumption... One dollar at an interest rate of 5% per year compounded continuously will grow in 500 years to 72 billion dollars. If left untouched for another doubling time of 14 years the account balance would be 144 billion dollars.

One can see that our long national history of population growth and growth in our per-capita consumption of resources lie at the heart of our energy problem.

(continued)

THE ENERGY CRISIS --by J. D. Young (continued)

The question of how long our resources will last is perhaps the most important question that can be asked in a modern industrial society. When consumption is rising exponentially, a doubling of the remaining resource results in only a small increase in life expectancy of the resource.

I have merely "skimmed" Dr. Bartlett's 14 pages, which hardly does justice to the work he has put in the subject. One does not need to be an expert mathematician to understand his figures. Let me close with a brief summary of his seven suggestions, all worthy of consideration by all thinking persons.

- (i) We must educate all of our people to an understanding of the arithmetic and consequences of growth, especially in terms of the earth's finite resources.....
- (ii) We must educate people to the critical urgency of abandoning our religious belief in the disastrous dogma that "growth is good," and that "bigger is better".....
- (iii) We must conserve in the use and consumption of everything. We must outlaw planned obsolescence.
- (iv) We must recycle almost everything. Except for the continuous sunlight the human race must finish the trip with the supplies that were aboard when "spaceship earth" was launched.
- (v) We must invest great sums in research (a) to develop the use of solar, wind, tidal, biomass, and alternative energy sources, (b) to reduce the problems of nuclear fission power plants, (c) to explore the possibility that we may be able to harness nuclear fusion.....
- (vi) We must recognize that it is exceedingly unscientific to promote ever-increasing rates of consumption of our fuel resources.....
- (vii) We can no longer sit back and deplore the lack of "leadership" and the lack of response to our political system.....

Dr. Albert A. Bartlett has been on the Faculty of the University of Colorado, Boulder since 1950. He has a BA degree from Colgate University and an MA and PhD in Physics from Harvard University. In 1978 he served as President of the American Association of Physics Teachers. He has lectured widely on the subject of this article.

Speaking of recycling everything, as mentioned in Dr. Bartlett's (iv) above, you may have noticed a simple design on cartons and other packaging materials. It consists of three arrows pointing clockwise in a circular pattern above the word "recycle". It was the winner in a \$2,500 contest several years ago, won by one of my grandnephews, Gary Anderson of North Las Vegas, Nevada. He did not need to play the "one-armed bandits" to earn the prize.

J. D. Y.

P. S. Again quoting Dr. Bartlett who quotes Pogo, "The future ain't what it used to be!" And quoting myself, "anyone for a nice, comfy, tax-free cave?"

POTPOURRI

A portion of the message of Marlene Simons, Outdoors Unlimited President, follows:

" It is difficult to go into a gas station and see the rising price rate and know that there are oil discoveries and gas discoveries that could be possible, if not for the lock-up of millions of acres of land in the west. Also, the price of raw lumber and the knowledge that millions of acres of a valuable, renewable resource will sit idle for the bugs to destroy-and destroy they will- until the beautiful Western Mountains will be the Brown Mountains of the west in a few years.

If you have any doubt, go look at the Dunoir Area near Dubois, Wyoming and see the already dying trees that could be cut and salvaged and made into lumber for all sorts of things. Also, the price of meat is on everyones mind when they go to feed their families. The loss of grazing on the public lands will - in the long run - cost everyone of us who must buy meat to feed our families. The loss in grazing permits could mean the reduction of cattle, as ranchers depend on the extra pasture to supplement their home ranches. This will affect sheep producers, also. This will mean less supply and higher prices.

Then, last but not least, the total lock-up of our recreation sites that only 2 percent of the nation will ever use. The elderly, handicapped and a vast majority of us who just can't hike 15 miles to see the inside of a Wilderness area will lose in the long run.

Wildlife management will be hampered, even though the Game and Fish have designated some acreages to become wilderness, and they are presently behind a push in the state of Wyoming, at least, for Stream 1 Classification, a mini RARE II of water lockup, and take away the landowner's right to manage his own water on his own land. I'm curious to know if this is going on in all the western states, and how much is going on in the Eastern states that people are unaware of at this point of time,

We must write and fight... all of us... miners, oil industry, livestock, timbering industry, home owners, recreationist groups and even business men. This giant step to take over the states must be all of our concern."

By joining an organization such as Outdoors Unlimited, P. O. Box 2254, Ogden, Utah 84404 you can have a part in fighting government takeover of our public lands.

Evy sez - Pick up your summer needs now, our shop is a full time shop, call or come on out.

J. J. & L. say they have most of their materials cleaned & sorted from the wreck and more new materials and are ready to serve you.

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. Betty Crawford
1119 Seminole Ave.
Mansfield, OH 44906

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

SECOND VICE PRESIDENT
Milford J. Sharp
3901 W. 210th St.
Fairview Park, OH 44126

SECRETARY
Miss Jean Reynolds
107 Tuttle Ave.
Clarendon Hills, IL 60514

TREASURER
Otto Ensminger
229 E. Madison St.
Lombard, IL 60148

May 1979 - Issue No. 195

1979 DIRECTORY DISTRIBUTED: YOURS SHOULD HAVE BEEN RECEIVED

The 1979 MWF Directory has been completed and by now your club should have their two free copies. These are sent to the person designated on the information sheet to receive Federation Mail. It is up to that person to see that the Directories are given to the right people or placed in the club library or otherwise made available to the club members.

Our thanks to all the people who filled out and sent in information forms! A special thanks to those who sent them in early, and those who completely spelled out city names (sometimes a common local abbreviation can be confusing).

Please check your club's listing in the green pages, your show/event listing in the Calendar, and your MWF committee listing -- if it is not correct, please let me know. Diane Dare, Directory Chairman, 747 E. Blackford Ave., Evansville, IN 47713.

CORRECTIONS FOR THE 1979 DIRECTORY:

The following information was received after the Directory went to press.

CREDENTIALS COMMITTEE:

Mrs. Esther (Robert) Mullaly, 30018 Dawson St., Garden City, MI. 48135
Asst. Mrs. Ethel Becker, 558 Southbrook Dr., Kirkwood, MO. 63122
Asst. Mrs. Iris (Dean) Riely, 7030 Brantford Rd., Dayton, OH 45414
Asst. Miss Susan Jolene Taylor, 910 New Hampshire St., Lincoln, NE. 68508

JUNIOR ACTIVITIES: Correct Zip for Virginia Popp is 60618

LONG RANGE PLANNING: Chairman is Howard Taylor. Assts. are Hazel Kuntz, and Past President Paul Good, 1029 Reder Rd., Griffith, IN. 46319

PROGRAM REQUESTS: Correct Zip for Ervin Moser is 49639

BOUNDARY COMMITTEE: Calvin George, 5 - S. 144 Webster, Naperville, IL. 60540

NOMINATING COMMITTEE: Mark Harris, 607 Marion Drive, Columbia, MO 65201

MIDWEST SHOW PROMISES TO BE OUTSTANDING

The host clubs of the Midwest Convention, scheduled for the Columbus, Ohio Veterans Memorial Auditorium, August 2-5 have made some of the most extensive, original and excellent plans ever made for a top flight show. The Columbus Rock and Mineral Society, the Good Earth Mineral Society and the Rockwell International Gem and Mineral Club have spared no effort or expense in preparing for one of the most complete and memorable shows ever seen.

Hundreds of displays are expected, including exhibits from many major museums and universities, and to spur competition there are innovative new classes. Cash awards will be made for the best single mineral, and fossil, and artifact, all self collected, and for the best single piece of hand crafted jewelry, and original lapidary work. Qualified and experienced judges are assured for all classes. The speakers list reads like the Who's Who of the twin worlds of earth science and lapidary art. Continuous programs will include movies, slides, lectures, panel discussions, seminars

and demonstrations. Topics covered will be varied and comprehensive, from the oldest in Ohio archeology finds to the newest fake gems, from well known fossils to the mysteries of radiation, from field trips to metalcraft. No special interest has been neglected.

Auctions, swaps, meetings, and a banquet with an important and entertaining speaker are also on the crowded 4 day schedule. Even the printed souvenir programs are of exceptional interest.

Columbus is the beautiful Capital of Ohio, situated on the Scioto and Olentangy Rivers. Accommodations of all price ranges are readily accessible. For more information please write Show Chairman Carlton Davis, 2452 Buckley Dr., Columbus, Ohio 43220.

JERRY HUBER

We have just learned of the death of Jerry Huber, Hoyt Lakes, Minn. Jerry served as Assistant State Representative for Minnesota during 1965-66. He was the Midwest Treasurer two years, 1966-67 and 1967-68.

New program

"The Fossil Story" is the name of our newest program; with 59 slides depicting fossils, locations, basics on their history. The author, Arlene Buehler, the immediate past Michigan State Director, says she uses this with her high school talks, but many adults would enjoy this also. An excellent follow up would be "Michigan Alpena County Fossils - 89 slides."

Send your request for this program, and all others, to Donald Stinnett, 29462 Aspen Drive, Flat Rock, MI 48134. Remember, there is no charge for the use of any Midwest program.

SCHOLARSHIP FOUNDATION SELECTS HONORARY AWARD WINNER FOR MIDWEST

The AFMS Scholarship Foundation has selected Dr. Dwayne D. Stone of Marietta College, Ohio as the Honorary Award Winner from the Midwest Federation for the year. There will be ten scholarships awarded this year to students working on advanced degrees in one of the Earth Sciences. It will be Dr. Stone's responsibility to select the three who will be chosen from this federation's territory. Fossil exhibitors and collectors are well aware of the great contribution to our hobby that Dr. Stone has made since he started judging competitive exhibits in 1967. His wideranging knowledge and meticulous attention to detail has helped every serious collector in the federation.

NEW TROPHIES FOR MIDWEST FEDERATION EXHIBITORS

At the Midwest Federation Show this August in Columbus, Ohio there will be several new trophies available to be earned by competitive exhibitors. All of the trophies awarded by the AFMS will have Midwest counterparts. See Part IV page 53 of the Uniform Rules Book for a listing of these 25 categories. In addition we will continue to have the Midwest trophies for Self-collected Fossils as well as one for Archeology.

DR. ELLWOOD T. REES ACTING AFMS PRESIDENT

Dr. Ellwood T. Rees, Executive Vice President of the AFMS, has assumed the duty of Acting President of AFMS. Dr. Rees lives in Twin Falls, Idaho, with his wife 'Freddie' and is well known in the Federation. He is well qualified to assume this position. He has contacted the present committee chairman and has requested they continue to serve in their various capacities.

SCHOLARSHIP

In order to save time and errors, our Midwest Scholarship Chairman, Katharine Steinbrenner, would appreciate it when you send scholarship checks or write for scholarship information that you be sure to include the name of your club and the number of members in your club. Address all your correspondence and send all your checks directly to Katharine Steinbrenner, 2813 Patricia Drive, Des Moines, Iowa 50322

NOTES FROM THE SUPPLY CHAIRMAN

The AFMS approved Reference List of Lapidary Material Names, better known as "Gem List", Fourth Edition, 1978, off-white in color, is available at a tentative price of 75c, plus postage and handling. Postage on a single copy is 20c, so the price of one copy would be 95c total. However, seven copies can be mailed to a single address for 50c. Thus, seven copies would be \$5.75.

The 1977 edition of the Uniform Rules, blue cover, are available free. Four copies can be mailed to a single address for a 50c postage and handling charge. These books are not valid after December 31, 1979.

The AFMS Exhibitors Manual is now out of print. This manual is to be revised and reprinted at some later date.

The above items can be ordered from Clinton Heckert, 725 Stewart Ave., Elgin, IL 60120. Please include check with order in the correct amount. Do not ask for shipments in July as Clinton is on vacation.

ELLIS COURTER, AFMS PRESIDENT, DIES

Ellis W. Courter, our American Federation President, died March 21 in Providence Hospital, Southfield, Mich. Ellis suffered a heart attack last summer in Butte, Montana while on a vacation trip that was to take him to Pleasanton, Calif. for the AFMS annual convention in July. After several weeks hospitalization in Butte he returned home. However, his heart condition made it impossible for him to survive when he contracted pneumonia.

Ellis is survived by his wife Clara, a daughter Kay Borough, of near Detroit, a son Gerald W. of Georgia, and nine grandchildren.

He served as President of the Michigan Mineralogical Society for two years and was editor of the official publication of that society, "The Conglomerate" for ten years. He served the Midwest Federation in several capacities and was elected its President in 1968. He became a Regional Vice President of the AFMS in 1974 and progressed through the chairs to his election as its President in 1978.

PICK AND DOP STICK PUBLICATION

The Pick and Dop Stick of Chicago published a useful list of mineral publications available for Illinois and its neighbor states, taken from the most helpful nationwide list made by A.E. Smith and D.R. Cook for the January-February Mineralogical Record.

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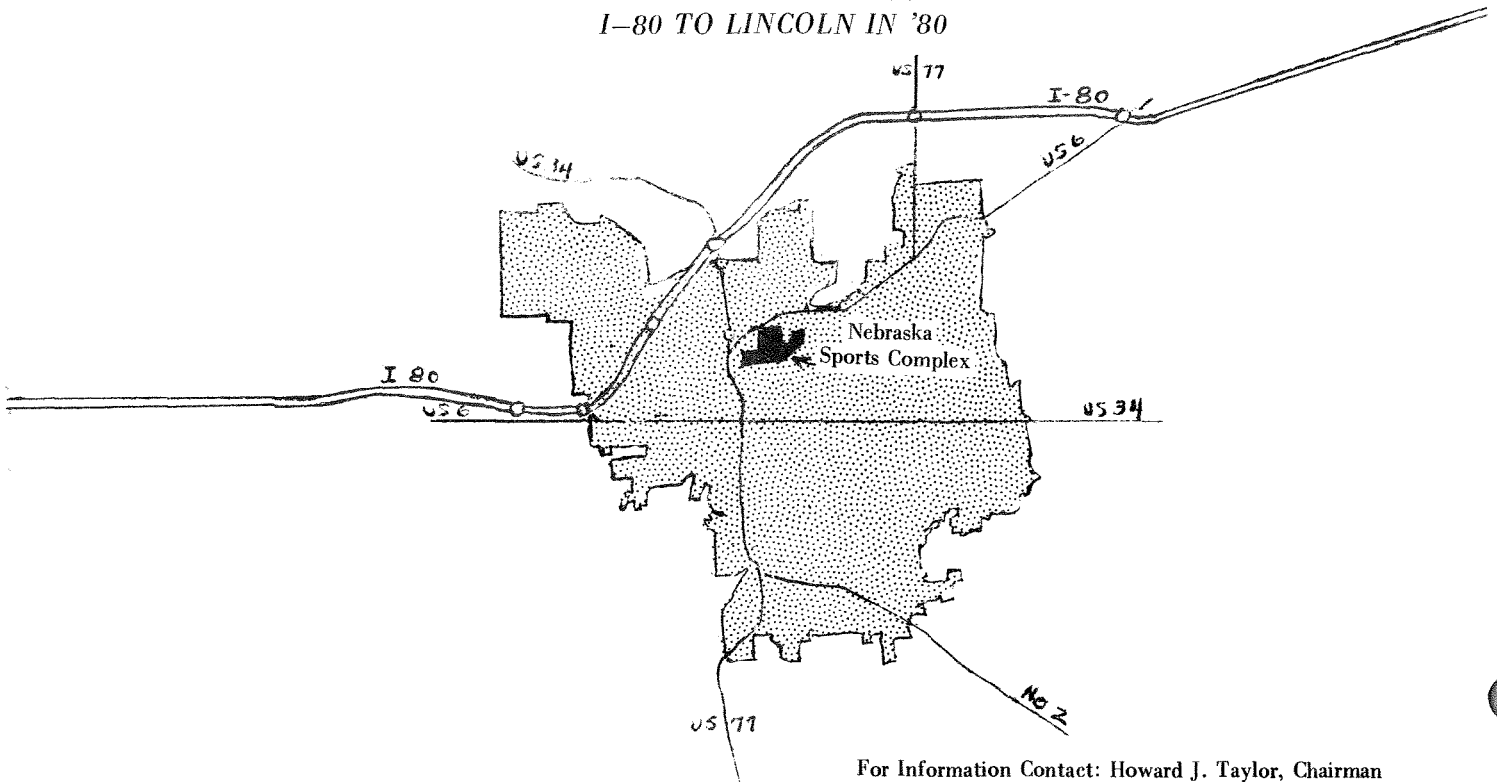
Subscriptions to THE PICK & SHOVEL are \$3.00 per year mailed.

Dues to LINCOLN GEM & MINERAL CLUB are as follows:

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