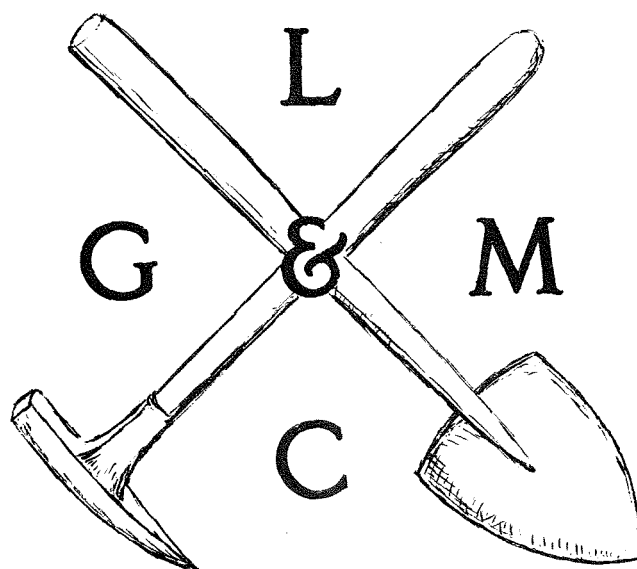


THE PICK & SHOVEL



OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB
LINCOLN, NEBRASKA

VOLUME 18

ISSUE 8

DATE: APRIL 1978

LINCOLN CEM 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)
Community Arts Council of Lincoln (CAC)

Regular Meetings: 4th Saturday of the month, September thru May, 7:30 P.M.
1978 - Trabert Hall, Lower Level, 2202 So. 11th St.

1978 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...	Florence Boring	2836 S. 40th St.	Lincoln, 68506	488-6243
Recording Secy..	Frances Tracy	3420 Frost Court	Lincoln, 68510	475-1885
Treasurer.....	Joella Olson	4831 S.Haven Drive	Lincoln, 68516	489-5380
Board Member....	Don Carter	1101 Driftwood	Lincoln, 68510	489-3442
Board Member....	Bob Daniels	2941 No.42nd St.	Lincoln, 68504	467-4051
Board Member....	Virginia Green	6120 The Knolls	Lincoln, 68512	423-5032
Board Member....	Ray Lambert	1201 N. 79th St.	Lincoln, 68505	464-8552

Nominating Committee-3 years..Marita Bigley,Lynn Wells; 2 years..Marie Wells,
Irl Everett; 1 year..Phyllis Parks, Ray Lambert

STANDING COMMITTEE CHAIRMEN:

Program	Florence Boring	Liaison & Calling	Marie Taylor
Education	James Marburger	Committee	
Hospitality	Vera Lyman	Refreshments	Bob/Sylvia Daniels
Historian	Lois Everett		Dick/Shirley Roberts
Librarian	Stan/Hazel Greenwade	Scholarship	Edwin/Vivian Johnson
Membership	Marita Bigley	Publications	Larry Bigley
Field Trips & Safety	Frank & Tom Rule	Housing & Property	Laurence B.Wightman
Sunshine Corner	Susan Taylor	Audit Comm.'78	L.Wightman,R.Pabian & B. Daniels
NAOESCI Reporter	Evelyn Ulrich	1978 Show Chairman	Don Carter
1978 Christmas Program Committee	Glen/Flossie Litzenberg	1979 Show Chairman	Glen Lyman

LONG RANGE PLANNING & BY-LAWS COMMITTEE

1 year remaining-Frank Rule & Phyllis Parks, 2 years-Larry Bigley & Don Carter
3 years to serve-Nelda Oliver & John Harrison (John-Chairman for 1978)

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
Typist Flossie Litzenberg Publisher Phyllis Parks

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

Subscriptions to the Pick & Shovel are \$3.00 per year mailed. Advertising by a rock-hobby business or interest permitted with approval of Board, at a rate now set at \$10.50 per full page per insertion. 1/2 page-5.25, 1/3 page-3.50, 1/4-2.75(min)

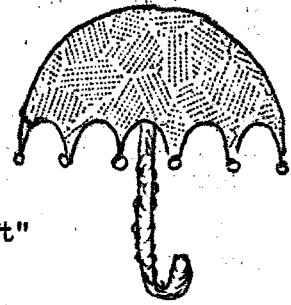
Articles published in THE PICK & SHOVEL may be reprinted if credit is given the author and the bulletin, and a copy of the publication is sent to the Editor.

General Meeting... Saturday, April 22, 1978, 7:30 P. M.
Trabert Hall, 2202 So. 11th St.

Program..... Dr. T. Mylan Stout, Professor in the
Geology Department of the University
of Nebraska, Lincoln, will speak on

"Land Bridges Versus Continental Drift"

The other side of the 'movements' of
the earth's crust from our lecture at
the March meeting. - Florence Boring, Program Chairman



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

L.G.M.C. Board of Directors' Meeting... Thursday, May 4th, Home of President,
Howard Taylor, 910 New Hampshire

Changes..... Please revise your 1978 Who's Who to include
Phone number for Mr. & Mrs. Bud Olson - 489-5380

1978 DATES TO REMEMBER

May 6-7	Lexington, Ne.	State Swap, Hosted by 100th Meridian Gem & Mineral Society
May 20-21	Hot Springs, S.D.	Picture City Gem & Mineral Society Show, City Auditorium
May 20-21	Ellenwood, Ks.	Rock Swap
June 3-4	Norfolk, Ne.	Northeast Ne. Rock & Mineral Society Show
June 9-11	Colorado Springs, Co.	RMF Convention & Show
June 10-11	Hebron, Ne.	Fort Butler Rock & Gem Club Swap
June 17-18	Beatrice, Ne.	Homestead Gem & Min. Club Swap
July 15-16	Columbus, Ne.	Loup Valley Gem & Min. Soc. Show
July 27-30	Pleasanton, Ca.	CFMS & National Show & Convention
Aug. 10-13	Cedar Rapids, Ia.	Midwest Federation Convention & Show
Sept. 2-4	Omaha, Ne.	Nebraska Mineral & Gem Club Show
Sept. 15-17	Kimball, Ne.	Plains Gem & Mineral Club Show
Sept. 29-30, Oct. 1	North Platte, Ne.	Platte Valley Rock & Mineral Show
Oct. 14-15	Grand Island, Ne.	G.I. Earth Science Club Show

The Chugach Gem and Mineral Society of Anchorage, Alaska is sponsoring a tour to Samarkand, Siberia, and Scandinavia. If interested in such a trip, contact your editor for an itinerary of the tour. The cost from New York is \$2,921.00. This includes 26 nights in Superior Tourist hotels in Scandinavia and first class hotels in the USSR in twin bedded rooms with private bath or shower. Breakfast is provided in Scandinavia, and some meals in certain isolated areas.

Address inquiries to Mrs. Oro Stewart, 531 W. 4th Ave., Anchorage, Alaska, 99501

No date was given for departure from New York, but Sept. 16 the tour begins in Oslo, Norway.

LAST MONTH ... There were 46 adult and 3 junior members present. Guests were Dr. John Clough and Richard Lohse.

A volunteer was needed to act as representative to the Community Arts Council and Mr. Grant Quinn agreed to serve in this capacity.

Our neighbors in the Omaha Club are interested in a swap-picnic-field-trip jointly with us, probably in the Weeping Water area this spring. ICNC members agreed this was a good idea and will welcome the opportunity to get together.

A letter re: "Wilderness Area" from Frank J. Cole of the Rocky Mt. Federation was introduced (see page 7). It is time to get busy.

Don Carter reported final plans on the show. Monday, March 27, Gov. Exon is to proclaim 'Nebraska Rock Week' through April 2. Roger will be on TV shows promoting the show on Monday and Wednesday.

A letter from the Nelhardt Center at Bancroft invites us to set up displays for a Cem Show to be held from May 7 to May 28.

A letter has been received from the University of Nebraska Foundation in appreciation of the annual stipend and announcing the two 1978 recipients, to be presented at the Awards Breakfast.

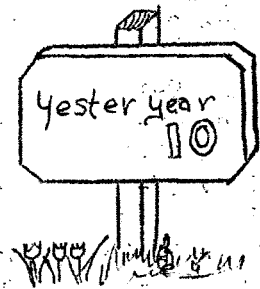
We have been invited to participate in special displays at Wesleyan during May in conjunction with the Academy of Science.

.....

April 1968 - "Cabs & Slabs", our program was given by two professionals in the field of slabbing and cabbing, Mr. Maurice Tracy and Mr. John Lewis.

There was a question and answer period after their informative talk.

from notebooks of Historian Lois



.....

Greetings from the Sunshine Corner:

" 11 April

The sun is shining in a blue sky with just a touch of frost in the air, and at the top of a yet leafless hickory tree a red-winged blackbird raises his head, fans his tail and spreads his wings a bit as he sets forth his fluid song again and again."

--from the diary of Stephen J. Krasemann



A sympathy card was sent to Adeline Nolde in the loss of her brother.

Susan Taylor

FROM THE PRESIDENTS DESK

Just a few lines to say thanks to all who worked so diligently at our show. It is another one behind us and one we can all be proud of.

I was notified today by Dr. Bertrand Schultz that our club was voted unanimously to be an associate member in the Nebraska Academy of Sciences. I think this is another step forward for our club.

At our last board meeting, Joella Olson volunteered to be chairman for displays to be placed at Olin Hall at the Nebraska Wesleyan University. We have two cases displayed at Olin Hall. We want to thank Joella, Virgil Carveth, Frank Rule, Roger Pabian and Ray Lambert for their material. In the future Joella will be calling on some of you for displays, so please help her.

We are continuing work on The Cems on Locatbn case and are in dire need of cabs for certain areas. Please help us.

I am asking each and everyone of you to please furnish me a list of any properties that you may have that belongs to the club. Our properties Chairman wishes to get it all itemized so please bring the list to our next meeting.

Thanks again to all who worked or displayed at the show. Hope to see you all at the meeting.

HELP KEEP NEBRASKA GRASSLANDS OPEN TO VEHICLES

More and more areas throughout the western part of the U.S. are being closed to vehicles. Excerpts from an item appearing in the Rapid City Journal which keeps the people of South Dakota informed on BLM activities follow: Wilderness Bill on Way to Carter. Washington (AP) The house passed and sent to the president Tuesday (March 15) legislation to designate 904,500 acres of the (all-atin and Custer National Forests of Montana as the Absaroka-Beartooth Wilderness. The legislation was approved on a 405-7 vote. The wilderness includes Granite Peak. Streams in the wilderness unit are part of the Yellowstone River ecological system and are said by some to be the finest in North America for sports fishing. Rep. Reno Roncalio, D-Wyo., a manager of the legislation, said he would work for a second bill to add some 46,000 adjoining acres in Wyoming to the wilderness unit.

A map of RARE II proposed land in Wyoming shows 95% of what is now "National Forest" up for "Wilderness". East of Yellowstone is only a narrow strip on both sides of the highway left to the National Forest. Lots of trails in the Big Horn Mts. are being closed.

There is an organization in Utah called OUTDOORS UNLIMITED, INC., P. O. Box 2254, Ogden, Utah 84404, which is fighting RARE II. Membership fee is \$5.00 and entitles members to all the latest information on BLM activities. This Utah club is raising money for a lawsuit to fight RARE II. (Roadless Area Review and Evaluation).

Senator McGovern is advising the South Dakota clubs on how to effectively combat the RARE activities. He told them that if all clubs would join together they could stop the taking over of the grasslands.

Isn't it about time Nebraska clubs woke up to what is going on and took some positive action? Unless we get on the ball and DO something, we might as well say "Goodbye" to hunting in the Crawford area, as well as South Dakota grasslands.

Editor

Our thanks to President Taylor for giving up some of his page for this message.

From the editor's desk...Since The Pick and Shovel staff is very much involved in helping host the State show, some of our regular features will be missing this month. The show is great, with many fine exhibits. It is such a pleasure to meet the friends we have made from other clubs in our own and neighboring states--almost like a family reunion. I guess you could say we are all members of a great Rockhound family. As a closely related family, we are going to have to unite in our efforts to forestall the converting of our best rock-hunting places into wilderness areas. Some say, "This will not happen in Nebraska." Don't be fooled-it is happening in other states. It can happen here if we don't "get on the ball". Many of our members are older people. Imagine them and even our younger members backpacking rocks over hills and through gullies for several miles.

The contributions which we are receiving from our members lately are greatly appreciated. It is the account of rockhounding experiences, of new mineral finds, of helpful lapidary tips, that make the bulletin interesting and worthwhile. Don't you enjoy hunting rocks vicariously with Tom and Irl? Let's have some more such articles. We greatly appreciate Mr. Young's articles, Stan's and Roger's very interesting book reviews. Flossie's Zodiac, Helena's news, and I know you will enjoy Frank's "Changing Times" in this issue. Ray Grabher submitted some interesting news about a new mineral find. We appreciate so much the very fine job Susan is doing with the Sunshine Corner and the fine job Linda Parks is doing helping Phyllis with the stencils. Our young people are our greatest asset. I'm sure the Juniors are very fond of Aunt Ruby Rockhound-she really gives them some interesting projects to work on. All in all your editor is very happy for the splendid cooperation from members to give you an interesting bulletin.

Spring Song

April can't make up her mind-
First she laughs and then she cries,
Now she's sulky, now she's kind,
One moment weeping, next blue skies.

Confused, she smiles a summer smile,
Then turns toward winter, quickly cools,
Her moods last such a little while
She makes us all her April fools.

Elizabeth Shafer in Copper's Weekly

A rockhound is a kind of nut
Whose mind is slightly undercut;
He swings a pick and drives a jeep
And dreams of agate in his sleep.
He'll pick up any kind of stone
Or piece of glass or even bone.
If he can't name it, he'll assert
That he has found a piece of chert...

Puget Sounder via Gemdrops

MINUTES: LINCOLN CEM AND MINERAL CLUB, INC.
BOARD OF DIRECTORS MEETING
March 2, 1978

The meeting of the Board of Directors was called to order by the President, Howard Taylor at his home March 2, 1978. Marita Bigley and eight board members were present.

The minutes of the February meeting were read and approved. The treasurer's report was read and approved.

Joella Olson, treasurer, requested a "Bank in a Box" card from National Bank of Commerce. Frances Tracy moved, seconded by Ray Lambert that she be given permission to obtain this card. Carried.

The following bills were presented: Dick Roberts \$11.00, Jim Marburger \$54.29, Marita Bigley \$12.24. Ray Lambert moved, seconded by Don Carter that the bills be approved. Carried.

Letter from John Harrison, Jr., 1976 treasurer, was read regarding failure to report an interest item on the tax return. An amended return has been prepared by the accountant who had prepared the original return.

Marita Bigley presented an application for membership from Mr. and Mrs. Richard Bowers. Don Carter moved, seconded by Florence Boring, that we approve them for members. Carried.

Don Carter reported that Roger Pabian felt he needed \$175. additional for advertising of the show. Bob Daniels moved, seconded by Joella Olson that we approve this additional amount with the restriction that "Adeline" not be included. Carried.

Free passes were discussed, and will be given to the Danielson's who are loaning the wheel chairs, 4-6 for the lady who is in charge of Trabert Hall, the State Fair Board and 2-4 for Chamber of Commerce.

Florence Boring reported on the awards breakfast and delegates luncheon.

Arrangements are made for the 1979 show to be held March 24 and 25.

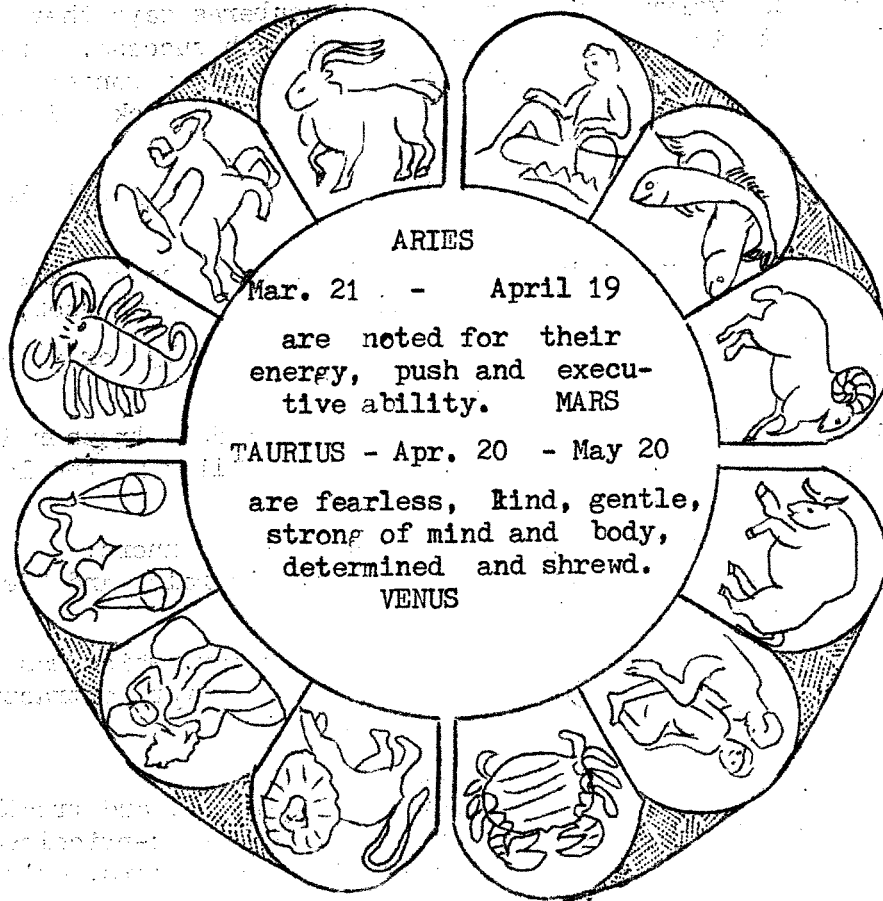
A letter was received regarding "Parade of States" at the Midwest Federation Show in August. Moved by Don Carter, seconded by Ray Lambert and carried that the Lincoln Cem and Mineral Club have a state case at this show. Don Carter offered to take and set up the case as well as take his turn to man it.

A delegate and alternate will need to be considered.

The Omaha club would like to get together with our club for a pot luck and swap, possibly in the Weeping Water area. Joella Olson moved, seconded by Don Carter that we accept the invitation. Carried.

There being no further business the meeting adjourned.

Frances Tracy, Secretary



DIAMOND --BIRTHSTONE for APRIL
Flossie Litzenberg

DIAMOND: the most precious stone and the hardest-10. Only 23% of the diamonds found are of gem quality. The rest are used for industrial purposes. Diamonds for jewelry are usually cut and polished to a brilliant cut of many facets. The diamonds that are not so perfect are ground to a rosette cut which is flat on the bottom.

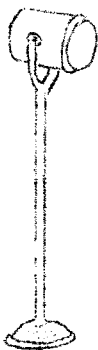
Ancient superstition:
 Diamond - Brings good health, and happiness.

Will members please, bring any diamond specimen they may have for "Show and Tell".

Silver Tip: Wash your silver articles carefully with hot sudsy water after polishing with tripoli or rouge. Tarnish reappears rapidly unless all traces of the polish are removed.

via The Template, Serendipity Gems

HIGHLIGHTS from Helena



A card to Evelyn Ulrich from the Litzenbergs says they hunted for fire agate in California, but without much success. And it was very hot. They are now in Hawaii and having a wonderful time with son and relatives, who they say do enjoy our Pick & Shovel immensely.

Haven't heard from the McGinnises, but hear they will be home this month.

Glad to see Rev. Pfeiffer at the show, even tho he came in a wheelchair. Hope you'll be walking "on your own" soon, Reverend.

We were also pleased to see Luella Paul at show if only for a short stay. Hope she keeps on progressing well.

We were sorry to learn of the death of Adeline Holde's brother Robert Elroy Holde, in Seattle, on March 28. Believe Adeline is the last member of her immediate family.

All in all, I felt our 1978 Show was great. Prize Winners:

Joella Olson, for her outstanding case of minerals, and "Best of Show." Congrats, Joella!

Lois Everett won the prize for her Open Display, which was lovely. There were other open displays, too, that were very attractive. Maybe we should have first, second, and thirds??

Exhibits that appealed to me personally:-

The Parks' unusual Brazilian Agate slabs-ethereal and breath-taking. Denver Museum's fabulous Gold Nugget and Crystals-priceless! Myrtle Young's delightful diorama of fire opal miners. You're an artist, Myrtle.

The darling miniature furniture by Roy Lammerts of Creston, Iowa. Hobbies Unlimited (Los Angeles) yummy turquoise case-almost my favorite semi-precious gem.

The Luthis' fossil jewelry-most unusual but attractive.

The unbelievably beautiful intarsia shown by Lentz Lapidary, Mulvane, Ks. of the old Italian "painting" of dogs and cat-with-bird.

The intarsia Meadow Lark by Northeast Nebr. Rock & Min. Society.

Very nice, but could have been better shown, I felt.

The Goddard Collection of minerals and Dr. David Lowrie's lecture thereon.

And my neighbor Dr. Michael Vorhies' slides and talk on Nebraska Rhino fossils.

Attended my first Awards Breakfast, and enjoyed. The Hylands had their grand-daughter from Huron, S. D. with them. She's a UNL student.

I sat at the ribbons-and-name plate table a while, and was fun seeing old and new friends come in. Also took several messages from those leaving for their friends yet to come. And believe it or not, delivered 'em all!

HRB

Special Message to the Nebraska Mineral and Gem Clubs, Omaha, Ne.
And to the Lincoln Gem and Mineral Club, Lincoln, Ne.

- RMF Representative, Frank J. Cole

Friends--

Did you know you are to be involved in an instant wilderness whether you wish it or not? That is unless you, and the farmers and all citizens who are sick of being pushed around in the name of endangered wildlife, wildlife areas, wild and scenic rivers and similar programs pressed by environmentalists who are getting the ear of President Carter, Morris Udall and the Congress. The latest is a plan for 30,000 miles of new National Trails. Sounds innocent enough, but have you read the article in U.S. News and World Report of Jan. 16, 1978 pages 54 and 55? Just today in our local paper is an article about the Mormon Historic Trail.

This trail will (if Carter, Udall, Andrus, Rep. McKay, Rep. Cannon and Utah Gov. Matheson have their way) run right through Nebraska from Council Bluffs to Scottsbluff, probably following close to the North Platte River. HERE IS THE SHOCKER!!! It will be a corridor of Federal Controlled land 1000 feet wide, that will possibly run right through many farmer's fields, whether they like it or not! This trail will go from Nauvoo, Ill. to Salt Lake City. 1800 miles. This means 341 square miles of private and public lands which will be retired forever from any productive use.

But that is only part of it. Your State has been chosen for other National Trails. The Oregon Trail will go from Kansas City and Fort Scott (two starting points) to the Pacific near Seattle. It will cross Nebraska from Alma to Julesburg and north of Kimball. The Lewis and Clark Trail will enter your State near St. Joseph and go north to Sioux City following the Missouri River.

If this bothers you at all, better get some letters started toward Washington to try to slow the Govt. down and listen to the People for a change. Most Citizens should have more rights than a few hikers. This is sent to you as a service of the Rocky Mountain Federation of Mineralogical Clubs. Only through Organization and Numbers can we ACT.

Sincerely,
Frank J. Cole

Committee for Multiple use of Public Lands for Citizens First

Accompanying this letter are suggestions for action against government take-over. They are as follows:

As a single individual and a member of 8 outdoor clubs and 4 Federations, I wish, personally without involving any of my Clubs and Federations, to suggest a different approach; as follows:

1. Each outdoor society of all kinds should appoint one individual, or a committee of not more than 3 members as Public Lands Advisory Committeemen or Committee (PLAC).
2. The PLAC will report to his club verbally at each meeting and in the club newsletter in each issue.

continued

Special Message - continued

3. Each PIAC will exchange newsletters and also correspond with as many other PIAC units as is practical.
4. Where the clubs or societies belong to regional or national federations, they shall exchange reports and information, one-with-the-other.
5. Some societies registered as non-profit tax exempt groups fear that any too aggressive action may endanger their no-tax status. This is utter nonsense, but I will leave that to the Legal Aids. So long as they do not pay for and hire a permanent Registered lobbyist in Washington, I understand the I.R.S. will not have any basis for action. To avoid any possible trouble, however, the club can in any piece of its literature, publish the names and addresses of the President, Senators, Congressmen, Cabinet Members (Bureau Chiefs), Governors, and State Department Heads.
6. Members should not be ordered or urged to write to any of the above. Writing can be suggested or recommended or hoped for.
7. Except for judicial orders from Federal judges and Executive Orders signed by the President, the Congress is the only authority authorized to make laws. There is a question whether Judicial orders or Presidential orders can be proved constitutional without being accompanied by a proof of public participation and an environmental and ecological impact statement. See Public Law 94-579-S-507, Oct. 21, 1976.
8. Each Club Library should obtain copies of the newest laws relating to Public Lands. Each PIAC should be on the mailing list of B.L.M., National Forest Service, Fish & Wildlife Service, National Park & Monument Service, and local State Department heads so they can keep up with the latest developments and be notified well in advance of any meetings they should attend.
9. I submit this for your consideration. Comments are encouraged, even expected, I hope. If you tear it apart, I shall be happy, providing you accompany your criticism with some sensible suggestions.
10. No funds for this mailing have been offered, solicited, or received from any club, society, federation or other organization. If, however, when one might reply to the above and write to me, I would not throw away any 13 unused stamps enclosed.

Conclusion: If you wish to assist this program, you have my authority herewith to copy the above and mail it to as many sportsmen, hobby and outdoor societies as you wish.

Helpfully submitted,
Frank J. Cole

Mr. Cole's address: Frank J. Cole, 6231 N. 59th Ave. SP. 46
Glendale, AZ 85301

Changing Times

by Frank Rule

Enjoy yourselves, Rockhounds. It's later than you think! Every rockbed is farther across than it used to be. Even the rock seems to be twice as heavy. There is a hill there now that I've just noticed, and Pebble Pups seem to be finding more Fairburns and Lakers than I do.

Seems to me that the canyon walls are steeper than they used to be--or else there are more of them or something. I've noticed also that it is getting harder to make four steps up the canyon wall.

Have you noticed the small type they use on road maps today, and you have to hold them out farther now? I have to squint to make out the highway numbers now. No, it is ridiculous to suggest that a person my age needs glasses, but it is the only way I can find out what I want to know without someone reading to me, and that isn't much help because everyone seems to speak in such a low voice that I can scarcely hear them.

And my clothes! Times are sure changing in my clothes. I notice they shrink in certain places, you know, like around the waist and in the seat, and my shoes are getting heavier now that I have to put my foot on a chair to lace them.

Even the weather is changing. The winters are getting colder, and the summers hotter. Have you noticed the rain is much wetter now?

People are changing, too. For one thing, they are younger than they used to be when I was their age. On the other hand, people my age are so much older than I am!

I ran into a friend at a rock show, and she had changed so much she didn't know me. "You have put on some weight," she said. "It's this modern food," I said. I got to thinking about her this morning while I was dressing. I looked at my reflection in the mirror. You know what? Seems they don't even use the same kind of glass in mirrors any more!

Quite a few of us notice these changes, Frank. Sad, but true.

Editor

Few Mineral Discovered... A new mineral discovered five years ago in central Argentina has been recently accepted by the International Mineralogical Association. It has been named Surita. It was discovered by a group of scientific researchers from LaPlata University. It is soft, white and greasy to the touch. It has a layered structure consisting of a clay-like substance and lead carbonate.

The above information was found in a recent issue of The World Herald and was submitted by Ray Crabber.

YOUR LIBRARY

prepared by Stan & Hazel Greenwade, Librarians



Minerals Yearbook 1947
Published by U.S. Department of the Interior
Bureau of Mines, copyright - 1949

This is a book of tables, graphs and charts and is another reference book mostly for the study of the production of the different materials and commodities which come from rocks. There are 64 commodities listed if I counted right.

Of most interest to the Rockhound, perhaps, is the commodity 'Gemstones.' The write-up about this is quite interesting as are some of the others. The book is not all dull reading.

For instance - During the war German scientists found that bearings could be shaped from synthetic spinel with the use of only 30 percent of the diamond dust required for sapphire or ruby. Later, upon being heated to 950° to 1,050° C the spinel bearings hardened and replaced sapphire bearings satisfactorily.

Feldspar - The uses of feldspar are many and varied and, for some perhaps, surprising. Some uses of feldspar - the making of glass fibers and blocks, sanitary ware, porcelain enamel products, pottery, ceramic-ware, soap, cleansers and sweeping compounds. The manufacture of artificial teeth consumes a small tonnage of very carefully selected crude spar which must be free from all grit.

Gypsum - Gypsum mined in the U. S. in 1947 was 6,203,216 short tons and 2,157,049 tons were imported. It is used in tile, sheathing, wall and laminated board, as cement retarder and in agriculture (added to the soil), filler, rock dust, in brewers fixe, color manufacture and plaster. Gypsum is also used for granite polishing.

This book has 1,616 pages.

..... Stan & Hazel

Interstate Rip-off - via AFMS Newsletter

Reports of gas stations along some of the interstate routes ripping motorists off have been wide spread recently. It is wise to always have someone stay with your car when it is being serviced and make sure you know the condition of your car so that you won't be the victim of unnecessary repairs.

Most gas stations along the interstate routes have their gasoline priced higher than stations in towns and away from the interstate interchanges. It is well to watch your gas gauge and plan to stop for gas before your tank is almost empty. In doing this you many times can save considerable per gallon by just driving a mile or so into the nearby town.

CORIOLIS FORCE -- the Spinner

by J. D. Young

What spins may be whirlwind, cyclone, hurricane, tornado, typhoon, whirlpool, waterspout, etc. In the Northern Hemisphere the spiral tends to be counter-clockwise if around a low pressure center where material is moving inward, and clockwise if around a high where the movement is outward. In the Southern Hemisphere the effect is opposite, and at the Equator (zero latitude) there is none.

A French mathematician, de Coriolis, 1792-1843, must have "de-fused" a super-dustdevil, and his name stuck. Hurricanes are given female names, probably due to male chauvinism dating back to Adam, who seems to have been "No. 1 person." (No ribbing here.)

The tornado season is approaching with storms of varied types and intensities. What causes them; are they predictable; are they controllable? The answers are not fully known. There seems to be a combination of causes, involving several atmospheric factors of thermal, mechanical, chemical and electrical energies. Scientists employ many devices to study and measure these. Something like radar, with its Doppler principle, can measure rate of turbulence in the atmosphere before a visible funnel appears. Prediction and control are becoming complex subjects, with great possibilities.

Weather alerts and warnings should be heeded, though often proved unnecessary. Some of us turn off the set to avoid raucous commercials, decadent disc programs and "soap-operas" more soap than opera. What can be done when to "take cover" is advised, and no good old cyclone cave is handy? Fleeing the threatened area may not be possible, and the safety of some structures may be doubtful. The idea about the S.W. corner of a basement is now being questioned. Also there is always danger of escaping gas and water and being trapped or injured by falling debris. To shut off all utilities before the funnel arrives may be wise but not always possible. Survival is often a matter of good luck.

An open window for air to escape the suction of the storm may prevent some damage. Buildings with trapped air in walls or rooms may explode to the lessened pressure outside. A drop of just one inch in barometric pressure outside has the effect of about 70 pounds added outward force on each square foot of trapped air surface. Even straight, strong winds blowing parallel with, but not against, a surface causes suction. That is why big store windows are often blown out, rather than in, by strong gusts, an example of Daniel Bernoulli's principle.

"A tornado is a strong draft", wrote one of my Science pupils at Shelton, Nebraska, 54 years ago. She made a gross under-statement. That draft can do unbelievable tricks, and a staggering amount of pent-up energy may be unleashed. The narrow, snake-like funnel with concentrated fury and erratic behavior is said to be the most intense storm known.

Tornado funnels may move across an area with variable speed, according to prevailing winds. Inside the spiral the rate may be several

continued

CORIOLIS---continued

hundred miles per hour. The energy of any substance in motion varies as the square of its velocity, so a 100 m.p.h. hurricane wind strikes about 16 times greater than a 25 m.p.h. breeze. At 200 it exerts about 100 lbs. force per square foot of area. The carrying power of air or water increases unbelievably with speed. The factor becomes complex. No wonder that Grandpa's "retreat" may become airborne with him in it, and enormous boulders may be carried by raging flood waters, not just rolled along.

There are many less violent examples related to the earth's rotation, somehow related to Coriolis Force, such as behavior of spinning tops, gyroscopes, flywheels, ocean currents, and long range gunnery. A straight-run river will erode one bank more than the other. Climbing vines usually spiral counter-clockwise up a support, and I wonder if they do the opposite in the lands "down under". Perhaps biologists could explain this phenomenon. Things seem to move in circles or spirals. Some heating experts say round duct pipes are more efficient because of this, as well as being a saving in sheet metal.

Because of the earth's rotation a heavy pendulum, free to swing in any direction, will slowly shift the plane of its to-and-fro motion clockwise around a horizontal circle below it, in the Northern Hemisphere. At the equator the plane does not change, and south of it the shift reverses. This must not be confused with movement in storm areas, Sidereal.

At a given point on the earth's surface the angular shift, or progress, of the swinging pendulum each hour will be equal to the product of the trigonometric sine of the angle of latitude from the equator times 15. The sine of the equator's zero angle is zero, so then the shift is zero. The poles each are at 90 degrees (sine 1.0) so the shift is 1.0×15 , or 15 degrees per hour, (or 15×24 , or 360 per 24 hours). Lincoln is near the 41 parallel (sine 0.656). The product of 0.656 times 15 is nearly 10 degrees per hour. This is the Foucault Pendulum, honoring Jean Foucault (foo ko) 1819-1868.

The explanation of Coriolis Force is simple. Earth rotates on its axis from west to east at the rate of about 1000 m.p.h. (at the equator). This is decreased to zero at the poles. Any particle or object set in motion toward any point in our hemisphere will veer to the right. The result is a "force couple" that may stir up things like a giant mixer. As the Shelton girl said in 1924 it could be "a strong draft."

J.D.Y.

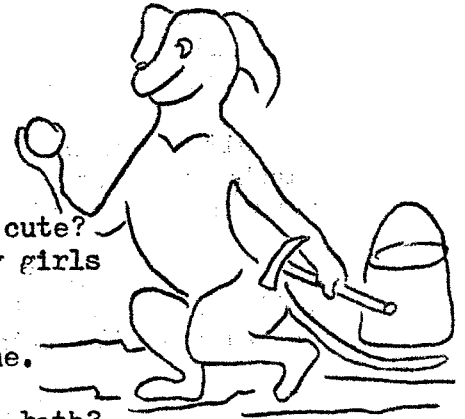
P.S. Important correction: Typographical error in my March 1978 article. The symbol for Gold (aurum) should be Au, not Ag. Ag is for silver (argentum). "Shades of W.J.B. and his famous "Cross of Gold." Sorry!

P.P.S. Apology to the author from the typist, also, and obviously the proof reader was not on the beam either. (pnp and/or lmp or jwp)

JUNIOR PAGE

Dear Pebble Pups,

Well, spring has finally sprung. I imagine many of you are thinking about taking off for the hills and sand pits hoping to find the one good specimen you've wanted. April is a good month to go to the Weeping Water area to look for fossils while the weeds are still small. In the sand pits you might even find a nice Lake Superior Agate or fossil teeth. There were a number of nice Lakers on display at the show found in eastern Nebraska.



How did you like the hog lot? Weren't those pigs cute? David had a group of nice plates, too. The Bigley girls really have a nice mineral collection.

Oh, yes- the bone for coup would be a dinosaur bone.

What agates would you use to heat water and take a bath?

Good luck hunting.

Aunt Ruby Rockhound

MINI-ROCK HUNT via Chips & Facets

17 minerals are written upside-down, backwards, sideways, diagonally, and sometimes right-side-up. How many can you find?

P D I O P T A S E N M

Look for:

L E A D B N X C C O A

Amethyst

C O Y M S F A I I V R

Azurite

Z C P I E L E D D A C

Cinnabar

A E I Q E T H M M C A

Copper

T I N N O E H R R E S

Curite

C F A D T R A Y E K I

Dioptase

S P I I I B O T S I T

Epidote

H P R T A C I T T T E

Galena

E U O N A N I C O E U

Iron

C V N C E P O J P K N

Lead

K I R F N P W E A O Q

Marcasite

C A L I P D I O Z A L

Novacekite

M U T E D I O O P A L

Opal

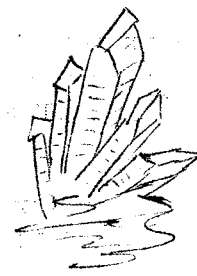
W E R A Z U R I T E M

Stibnite

Tin

Topaz

Wulfenite



POTPOURRI

Rich Artifact Area Found in Alaska... More than a half-million artifacts dating back 10,500 years, have been found by scientists at sites along the path of the trans-Alaska pipeline, an oil company publication said.

Flint scrapers, small microblades, and projectile points comprise the bulk of the finds. Tools, animal remains and dwelling ruins also were discovered.

The sites and artifacts location indicates early inhabitants of Alaska were nomads, depending for their livelihood on the movements of the caribou, and on fish runs.

Ancient whalebone sled runners, along with copper, obsidian and white mink bones, found hundreds of miles north of their origin reveal a mobile life style.

via AFMS Newsletter

Fake Opals... The Jeweler's Circular Keystone states that one gemologist refers to Slocum stone as "doped glass". Custom officials demand proof that it is fake before they will let it pass.

The stone was developed by John Slocum and is not marketed by MDI Corp. as "Opal-essence".

It resembles the real thing so closely that it took three days, plus special papers from the Geological Institute of America to finally convince creek customs officials that real gems were not being smuggled. The white imitations are especially effective according to Richard Liddicot, Director of CIA. At first Slocum's stones had a serious water problem. The water evaporated in one of his large synthetic stones and it exploded. As a result he began working on a waterless opalescent stone. It took him 12 years to perfect the new stone. It is a siliceous material containing color-producing agents.

The process is highly secret and the stones are sold only to manufacturers and wholesale dealers, most of whom mount the stones in their own jewelry lines.

Lettering for fluorescent displays can be made by mixing quinine with water to use as ink. It will glow bright bluish-white under black light.

via Chips and Facets

There's nothin' to match curling up with a good book when there's a repair job to be done around the house.

-Joe Ryan, via Reader's Digest

Midwest Federations NEWSLETTER



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

April 1978 - Issue No. 184

Spring meeting set

The Spring MWF Executive Meeting will be held on April 29, 1978 in Highland, Indiana. A room has been provided for the meeting to be held in the Highland High School, 9135 Erie St., Highland, Indiana (One block east of Kennedy Avenue).

The Calumet Gem and Mineral Society will host this meeting in connection with their annual show. Free admission will be provided to the MWF Executive Committee members to their Show. The club will also provide coffee and sweet rolls for the meeting.

Motel Reservations may be made at the following motels:

Holiday Inn, Bernice & Torrence, Lansing, Illinois, 312-474-6300, (about 4 miles west of Kennedy Ave);

Holiday Inn, 3840 - 179th St., Hammond, Indiana, 219-844-2140, (about 2 miles east of Kennedy Ave);

Howard Johnson Motor Lodge, 7813 Indianapolis Blvd., Hammond, Indiana, 219-844-7780, (One mile west of Kennedy Ave).

More information and maps will be mailed to all executive committee members shortly.

Three new programs

Program Chairman Donald Stinnett announces the addition of three new slide programs to the library, all by members of the Midwest Mineralogical and Lapidary Society of Dearborn (Michigan).

"Artistry in Wire" describes wire-wrap procedure by Ralph Goniea, Dearborn, Mich. a teacher of this work.

"Alpena County Fossils" by Bob and Pat Ruthowski, Taylor, Mich. Alpena County in Upper Michigan is well known for its fossils and Pat presents them beautifully and Bob's photography is excellent.

"Close-up Photography" by Norm Hanshu, Canton, Mich. Norm works in photography and has photographed his wife's minerals. Our library has had a need for a program on photography and we now have a fine one.

All of these programs are ready for immediate booking and clubs should order them from Donald Stinnett, Midwest Federation Film Library, 29462 Aspen Drive, Flat Rock, Mich. 48134. Be sure to include the name of your club, the exact name and address of the person to whom the program is to be shipped. Tell us the exact date the program is to be used, and include the \$2.00 service charge with your request for each program ordered.

Keep in mind the Midwest is always anxious to have new programs to add to its library. If your club would like to furnish a program contact Donald Stinnett.

Fossil club forming

The desire to form a strictly fossil club for the region prompted an invitation by Paleontology Chairman, Don Good, to attend a meeting at Augustana College in Rock Island, Saturday, February 4th at 2:00 o'clock.

The results were most gratifying. Eighteen adults belonging to 7 different clubs in 3 states attended (in spite of poor driving conditions). Decisions reached included: 1) To form a Midwest Paleontology Club, 2) To affiliate the club with the MWF, 3) To set up bi-laws for such a club, and 4) To have a second meeting, Saturday, March 4th at 2:00 o'clock in the Geology Building at Augustana College in Rock Island, Illinois.

Persons desiring additional information may contact Don by writing him at 410 N.W. 3rd Street, Aledo, Illinois 61231 or by calling AC 309- 582-5232.

Plan to continue 'Hall of States'

Last year at the Midwest Federation convention and show in Dayton, Ohio a "Hall of States" display was inaugurated.

The popular response to this feature has prompted The Cedar Valley Rocks and Mineral Society to plan for continuing this feature at the Midwest Convention and show in Cedar Rapids, Iowa, August 10-13.

Midwest Federation State Directors are being asked by Truman Ramsel, State Director for Iowa and member of the host club, Cedar Valley Rocks and Mineral Society and coordinator of the feature to contact clubs in their state to insure a display from their state. Clubs in each state are being asked to work with their State Director in this show feature.

There were a few states missing from the 1977 show and it is hoped that 100% representation can be achieved this year.

1978 MIDWEST SHOW AND CONVENTION
CEDAR RAPIDS, IOWA - AUG. 11-13

Welcome new members

GREATER OAK LAWN DIGGERS

Mrs. Sandra Wallock, President
4637 W. 105th Place
Oak Lawn, Illinois 60453
joined 2-19-78

FLAMBEAU GEM AND MINERAL SOCIETY

Marting J. Tomczak, President
Rt. 1 - Box 1
Ladysmith, Wisconsin 54848
Joined 2-8-1978

ST. CROIX ROCKHOUNDS

Ray Damkaer, President
422 Pine Tree Trail
Stillwater, Minnesota 55082
joined 2-19-78

Explore need for group field insurance

Group Field insurance for those wishing to hunt has become a topic of much concern among rock clubs throughout the country. In the Eastern Federation News Digest the Eastern President, Wm. Maloney, writes "It is fast becoming apparent in this hobby that if clubs expect to continue to dig on private property and quarries they are going to have to carry insurance to protect the owner in case of damage to property or personnel. This is no more than fair. You should be willing to pay the premium in exchange for the privilege of collecting. Eastern has for several years had an Insurance

Committee. This committee advises that an insurance policy is going to be available to all Eastern clubs if enough participation is found. It is not known the number of Eastern clubs that already have some type of coverage. Perhaps your club has never felt the need and this may come as a surprise to you."

"The Insurance Committee indicates if enough participation can be secured a premium of between \$100 and \$200 per club per year depending upon club membership would provide \$500,000 bodily injury and \$100,000 property damage."

UNUSUAL FIELD TRIP PLANNED FOR NATIONAL SHOW

Castro Valley Mineral and Gem Society has planned an unusual field trip for a limited number of fortunate (that means early bird respondees) guests at the National Show and Convention in Pleasanton, California July 27-30.

As the host club, the Castro Valley show committee has made arrangements with Pacific Gas and Electric Company to visit The Geysers, its geothermal plant. Said to be the largest installation of its kind in the world, it is the only commercial-ly operating geothermal plant in the United States.

PG&E is sending buses to the show site to pick up guests for the trip to the fields located 90 miles north of San Francisco. The date is July 31, the day following the close of the show. Since company rules permit only a limited number of visitors at The Geysers at one time, PG&E has scheduled a wine tasting tour as part of the outing. While one group is at the plant another will be entertained at one of Sonoma County's wineries which produces some of California's highly acclaimed wines.

The amount of steam now producing electricity at the geothermal plant has been estimated as the equivalent of 200 big, old-time steam engine locomotives operating in tandem 24 hours per day. Ultimately, the power company expects at least two million kilowatts of capacity will be available at The Geysers.

Actually, spokesmen point out, they are not "geysers," but fumaroles; the difference being that geysers send up jets of hot water and steam at intervals. Fumaroles are fissures which allow steam to be emitted steadily.

There is no cost for this outstanding trip. Jack Burris, field trip chairman, said however, that due to the expected demand for reservations, they must be made no later than

May 1.

The excursion will require most of the day, with guests being returned to the show site, Alameda County Fairgrounds in Pleasanton, in late afternoon.

AGATE TO BE KENTUCKY STATE ROCK?

From Frankfort, Kentucky comes word that the semi-precious Kentucky agate will become the official state rock if a bill introduced in the Kentucky House by Rep. Joe Clarke, D-Danville, is adopted by the General Assembly.

His bill notes the stone's similarity to the Commonwealth and states the stone "combines marvelous versatility and beauty, and that the agate has been known to millions of boys and girls in Kentucky and elsewhere as the highly regarded 'aggie', indispensable to the compleat marble shooter.

Kentucky could become the 34th state to have a state stone if the bill passes this session.

CHICAGOLAND GEMS AND MINERALS ANNOUNCE SIX PROGRAMS FOR ANNUAL SHOW

The Chicagoland Gems and Minerals Association have announced six programs scheduled for their Second Annual Show, Memorial Day weekend, May 27-29, DuPage County Fairgrounds, Wheaton, Illinois.

The six are: "Volcanos Building A New Island", by Irene Joyce; "The History and How To of Gemstone Engraving" by Ute Bernhardt; "Midwest Minerals, and the Legend and Lore of Gems" by June Zeitner; "Micromounting" by Don Behnke; "Intarsias and Mosaic Art Works" by Rus Kemp; and "Petrified Woods" by Doris Kemp.

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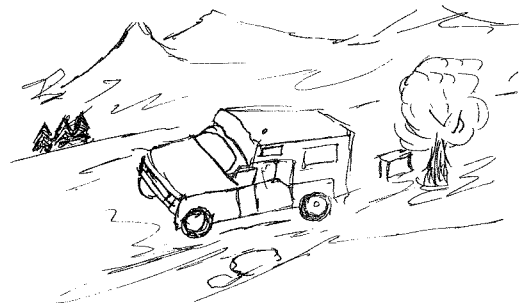


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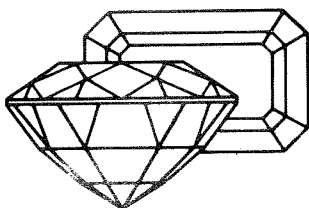
Phone (402) 466-0211

6126 Hartley Street

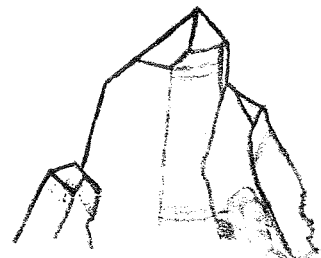
Lincoln, Nebraska 68507

COME TO THE LINCOLN SHOW. PLEASE TRY TO ATTEND THESE OTHER LOCALS.

MASON CITY, IOWA	APRIL 8-9, 1978
CHADRON, NE.	APRIL 14-15-16, 1978
COLUMBIA, MISSOURI	APRIL 14-15-16, 1978
WATERTOWN, S. DAK.	MAY 6-7, 1978



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