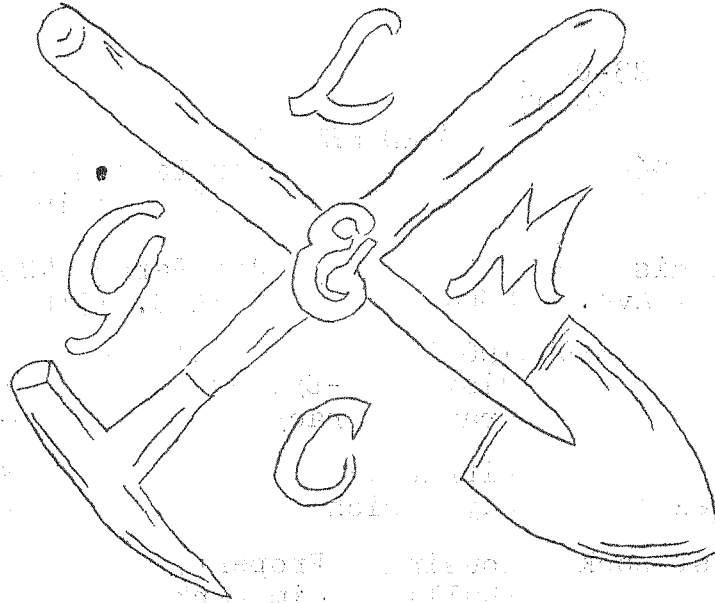


THE PICK & SHOVEL



Official Publication of
THE LINCOLN GEM AND MINERAL CLUB, INC.
P. O. Box 5342
Lincoln, Nebraska 68505

FEB 1971

Members of

Midwest Federation of Mineralogical and Geological Societies

American Federation of Mineralogical Societies

Nebraska State Association of Earth Science Clubs, Inc.

Community Arts Council of Lincoln

Editor: Norma Miller, 931 Cottonwood Dr., Lincoln, NE 68510
Publisher: Phyllis Parks, 2435 S. 19th St., Lincoln, NE 68502

Regular Meetings - 4th Sat. of the month 7:30 PM, Sept. thru May
W.O.W. Bldg., 732 S. 27th St., Lincoln, Nebraska

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.

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

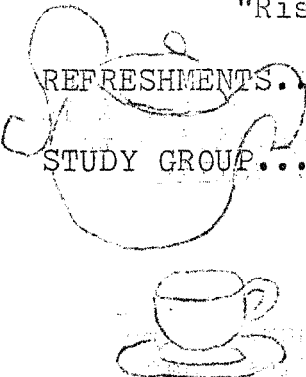
THIS MONTH

REGULAR MEETING...Sat., Febr. 27, 7:30 PM
WOW BLDG., 734 S. 27th

PROGRAM...Colored movie titled --
"Rise and Fall of the Great Lakes"
Mac McKinney-Prog. Chmn.

REFRESHMENTS...Eleanor Rupert and Marie Taylor
Norma Miller and Tam Dutcher (?)

STUDY GROUP...ON STAGE...following refreshments...
under the direction of Evelyn Ulrich,
LGMC Secretary and teacher in her own
right. Bring your coffee cup on stage
- we don't mind. (For those who did not
take advantage of the informative program given by
Evelyn last month...don't miss this one)



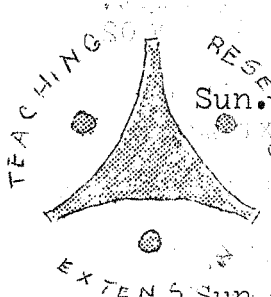
ROOM 104...right on... and going strong...under the watchful eyes
of Charles Messenger, Larry Van Cleave, and Dorothy &
Norman Engelhart. Join us this Friday nite 7:00 to 10:00

LAPIDARY CLASSES...starting Febr. 22, 23, and 24...pick a class and
register by phoning 435-3608, City Recreation
Center #2, 23rd & O Sts...10 week course

NEW MEMBERS...Mr. & Mrs. George Liller, ph 362-4806
415 W. 8th St., York, NE 68467

Welcomes

ANNOUNCEMENTS...SPECIAL ATTENTION...Lincoln Gem & Mineral Club Show
to be held at the Exposition Bldg. on the State Fair
Grounds in Lincoln instead of the National Guard Armory
Date remains the same...see details elsewhere



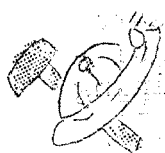
Sun. Febr. 21, 1971, 2:00 to 6:00 PM

INTERNATIONAL OPEN-HOUSE...FREE...EAST CAMPUS, UNIV. OF
NEBRASKA...sponsored by Cooperative Extension Service
...to "Tell the Story" of what is happening in Lincoln
to increase international understanding

Sun. Febr. 28, 1971, 3:00 PM, Rm 20, Morrill Hall (Museum)
Auditorium, 14th & U Sts. "Man and His Environment"
presented by Dr. Warren W. Caldwell, Curator of An-
thropology, University of Nebraska

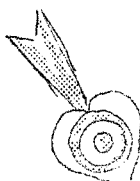
Sun. Mar. 14, 1971, 3:00 PM, Rm. 20, Morrill Hall Auditorium
"Man and Nature in the National Parks", presented by
Dr. Patricia J. Rand, Professor of Botany

Sun. Mar. 21, 1971, 1:30 PM, Rm. 20 Morrill Hall Auditorium
LINCOLN GEM & MINERAL CLUB Indoor Field Trip Gemboree
You'all come...see the far away places we might like to
hunt and help prepare Field Trip Schedule for '71.
Further information at the February meeting



ANNOUNCEMENTS (continued)

Since printing last month's bulletin a change has been made in where you may order the talking record of Dr. John Neihardt... "The Wonder of It All"... Send check or money order to: NEIHARDT RECORD, 5555 O St., Lincoln, NE 68510... Cost \$5.75 (plus sales tax in Nebraska)



APPOINTMENT...our own ROGER PABIAN has been appointed the new Education Chairman for Midwest Federation. This is a responsible position on the Federation level and Roger is well-qualified to fill the bill. We know he will do a good job for J. Wollin and the MWF...Our congratulations.

EXCHANGE BULLETIN EDITORS PLEASE NOTICE! The address for Lincoln Gem & Mineral Club is officially Box 5342, Lincoln, NE 68505...and has been that for a year now...some exchanges are still being sent to Box 29356 and we have been notified that "the authorized time for forwarding has expired...please advise your correspondents of your new address"...so PLEASE change the box number, or send exchanges to LGMC Editor, 931 Cottonwood Dr., Lincoln, NE 68510...we don't want any bulletins to go by the wayside!!!

BETTY CROCKER COUPONS ARE STILL USEFUL...rumor had it that General Mills had withdrawn their Coupon support from the Scholarship Foundation...NOT SO...the AFMS Scholarship Foundation arrangement with them is in no way affected.

A BROCHURE OF QUESTIONS AND ANSWERS about Staking a Mining Claim on Federal Lands? has been published by the Bureau of Land Management and the Forest Service. Obtain it by writing Supt. of Documents, U.S. Gov't. Printing Office, Washington DS 20402

REMINDER...this is your last copy of the Pick & Shovel if your dues are not paid. We print the roster next month

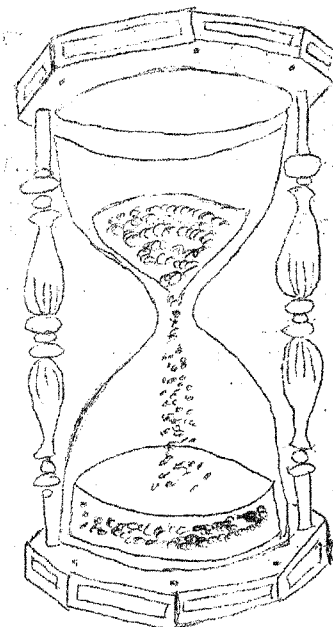
DEADLINE for material for MARCH issue of Pick & Shovel is Mar. 10

NOTE...Be sure to read the MWF Newsletter always included in your bulletin...keep abreast of Federation HAPPENINGS...your editor seldom reprints info contained there assuming you are reading it...we were docked $\frac{1}{2}$ point in the Bulletin Contest for not printing more MWF news...I don't understand this inasmuch as we include the complete letter but perhaps reiterating certain points would make more emphasis on our members?

A bill being sent to Congress of interest to southeast Nebraska is a proposal for stringent federal standards for environmental protection in the strip mining or surface mining industry. The bill would require the states to enact strip mining regulations within two years or the secretary of the interior could impose direct federal regulation and the states would have to pay 75% of the cost. Strip mining may come to Nebraska. No one wants to stop mining of gypsum if it means economic development but we don't want ravages suffered in W. Virginia and Kentucky. Nebraska congressmen should consider the proposal as to how it will affect the development of gypsum and what protection it will give the state environment. (Ed.)

From LGMC President -

The TIME is NOW! From now until - and through - 1974 each loyal member of The Lincoln Gem and Mineral Club must put his or her own personal feelings aside and meet with eager enthusiasm the challenge - to insure that Lincoln host a #1 Gem and Mineral Show. We can and must do the same fine production as we have for each of our local shows - only on a bit larger scale and with much more outside participation and assistance.



Little did our own 'Evy', Mr. Irl Everett, realize the far reaching events to come when he sent that first invitation to rockhounds whose names he secured from library book cards in the rock and lapidary section of our city library. From that first meeting grew our club, which grew and grew, and now at age 16 is ready to invite rockhounds in the entire nation to participate in our 1974 show.

We can point with pride to Evy who has been selected by the Steering Committee as Show Director for the 1974 MWF-AF Combined Show and Convention. Evy's sincere feeling for our entire hobby and his desire to encourage and participate in rockhound activities make him the best possible man for the job.

NOW is the TIME to show your club spirit and join forces with Evy and the steering committee to assure production of "The Best in the West" and "Lincoln #1" Gem and Mineral extravaganza which can possibly be done.

Sincerely, Phyllis N. Parks

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My thanks to those 18 people who took time from their busy days to fill out and return the questionnaire from last month's bulletin. Our committee has not had the opportunity to completely record and make up a report on them but I can say that many good ideas were submitted and those participating were very honest in their remarks about our programs, meetings and activities. It seems that over a hundred club members are satisfied with the past activities and do not desire a change but the ideas submitted are so refreshing that we must attempt to rearrange part of our format. More next month. p

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FOR YOUR MAIN COURSE

Take a bit of Tolerance, and add it to your day,
 A pinch of understanding will make a fine bouquet,
 A cheerful disposition will blend in very nice,
 A little love and laughter to give a touch spice.
 Mix in an honest effort to do a deed worthwhile,
 Sprinkle in some kindness, and serve it with a smile.

-Frank C. Horn, Utah Report -via LV Gem News

Last Month - January 23, 1971 found several eager scholars "on stage" to view and discuss the film strips secured by Evelyn Ulrich to kick off what we hope will develop into longer and more detailed sessions of delving into the intricacies of our ever-growing hobby. Those who were able to take part were most enthusiastic and desire to enlarge upon the idea.

The regular meeting was called to order promptly at 7:30 with the introduction of Mr. & Mrs. Earl Besselheiser and Mr. & Mrs. Albert Olson as guests for the evening. A total of 48 members were given a chance to show their appreciation for 1970 officers and committees after which the 1971 officers were presented. Those persons who have already accepted a committee assignment for 1971 were asked to stand. An attempt was made to fill remaining posts on the list from those members present. Mr. Charles Kitchen agreed to act as Chairman for the 1971 Rock Swap, with help from previous chairmen. Thank you Mr. Kitchen.

Melena Baegl announced that our club has thus far submitted a total of 4,399 General Mills coupons for Scholarship. She suggested that we renew our efforts to bring them each meeting.

The meeting was turned over to Ralph Ulrich, Chairman of the Steering Committee for the 1974 Midwest Federation-American Federation Joint Show and Convention. After a general introduction to the organization and policies previously established, Mr. Irl Everett was presented as the 1974 Show Director selected by the committee.

Bruce Simon reported in detail on the financial aspects as seen by the Committee with an estimated expenditure-income budget.

Howard Taylor reported on the possible sites and space available and the willingness of the State Fair Management, University of Nebraska, and the Lincoln Chamber of Commerce to cooperate in any way possible in preparation for this national event.

Irl Everett reviewed publicity to be carried out and enthusiasm which we will need to generate as we become more deeply involved. Needless to say, Irl's own enthusiasm is clearly seen and should be an example to us all. He stressed that this will be a show to enjoy and not just work at.

Ralph again took the floor to ask for any questions from those present. The presentation must have been very complete as few questions were asked. Ralph asked for a decisive final affirming vote for Lincoln Gem & Mineral Club to host the 1974 Show. A motion to this effect was made and seconded, no opposition was presented and the vote was overwhelmingly in favor. Only five opposing votes were cast.

Door prizes were presented through the courtesy of C. Ray Waddle.

Cake was served in honor of the 16th birthday of L.G.C.

NEEDED --We must have a theme, slogan and colors selected by October of 1971 for our "Big Show of '74." I would like to have volunteers for this job. Contact me at 432-3707.

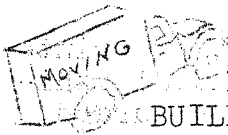
Suggestions or ideas may be submitted to me by anyone in the club.

Howard Taylor

LINCOLN GEM & MINERAL
CLUB SHOW

PUFFS

-from your Chief



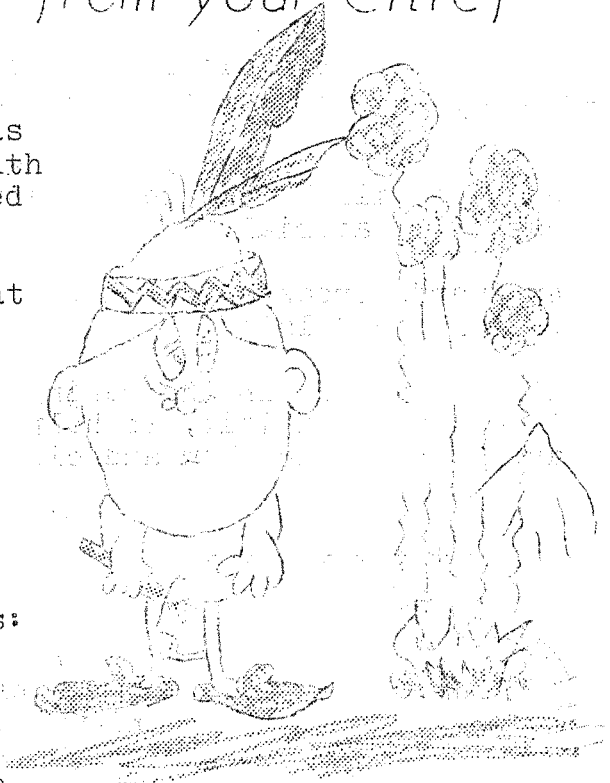
MOVING TO EXPOSITION
BUILDING...STATE FAIR GROUNDS
LINCOLN, NEBRASKA

The National Guard Armory personnel has informed us that week-end contracts with them have been cancelled due to stepped up activities of the National Guard.

The Show Committee feels fortunate that the Exposition Building on the Fair Grounds could be obtained on May 8 and 9, and everything else remains the same except for increased ulcer activities on the part of the Show Chairman. We shall not be stymied however...we will persevere and make the Best Show Ever.

Show Committee Chairmen are as follows:

- | | |
|--------------------------|------------------------|
| CHAIRMEN... | Lynn & Marie Wells |
| CO-SHOW CHAIRMAN... | Frank Rule |
| DEALERS... | Roger Pabian |
| PUBLICITY... | Marie Carveth |
| FLOOR MANAGER... | Jim Parks |
| PROGRAM... | Mac McKinney |
| ROCK SWAP... | Geo. McGinnis |
| SPECIAL FEATURES... | Geo. & Glenna McGinnis |
| WORKING DEMONSTRATION... | Glen Ulrich |
| COMPETITIVE EXHIBIT... | Kay Ulrich |
| DECORATIONS... | Hazel Bagg |
| ADVANCED TICKET SALES... | Darline Sprick |
| DOOR TICKET SALES... | Dean Baumeister |
| REGISTRATION... | Helena Baegl |
| ROCK PILE CONCESSION... | Pat Lawson |
| OPEN EXHIBITS... | Marie Taylor |



It is the hope of your Show Chairman that when you are asked to help you will do so eagerly. Or if you prefer to work on a particular committee - tell the Chairman of that committee.

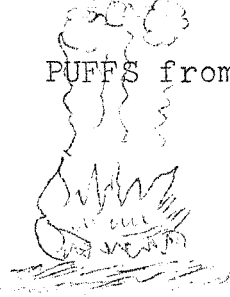
Specimens for the rock pile are needed. We suggest you go through your material and put your discards into a box and bring to the general meeting for Pat Lawson to pick up.

Twenty door prizes will be needed for the hourly drawing. Any members having duplicate specimens or slabs with a value of \$1.00 or more that they are willing to donate for the drawing, contact Lynn Wells.

There will be some changes in policy this year...All children 12 years and under accompanied by a paid adult admission, or scouts and campfire boys and girls in uniform will be admitted free accompanied

(continued next page)

PUFFS from your Chief (continued)



by their leaders. There will be no school tickets printed. Exhibitor ribbons will be issued to each individual exhibitor but not to group or club exhibits. To encourage open display exhibits a ribbon will be awarded to the display the judge considers best.

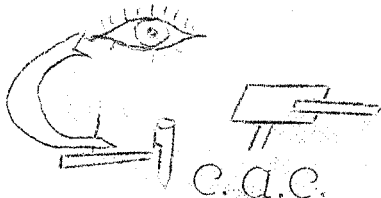
There will be a Walk-in Show and Take Away table. All entries will be checked in and out. This is to prevent any loss of cases or material.

An Awards Breakfast will be held on Sunday, May 9th. Details to be announced later.

A fine show is in the making and all members of the club are urged to enter an exhibit, to help with the work, sell advance tickets, and support the show and club with enthusiasm.

1971 Show Chairmen...Lynn & Marie Wells

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COMMUNITY ARTS COUNCIL REPORT

Members of the Community Arts Council were guests of the Nebraska Arts Council and Nebraska Endowment for the Arts at the Villager Motel in January.

Announcement was made of a grant of \$10,000 by the Woods Charitable Fund of Chicago. Funds from the grant will be used by the Council to support cultural activities primarily through "minigrants" of \$500 or less to non-profit Nebraska art groups.

University of Nebraska Chancellor D. B. Varner addressed the group on "The Arts - Frills or Fundamentals?"

-Edith Holdorf, LGMC Rep. to Community Arts Council

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VIEWPOINT...

Hurray!
Hurray!
(a la Gomer)



The ice is broken! For the past couple of years we've been wondering "where the education is". The stated purpose of the club (LGMC) is educational and Evelyn is seeing to it that we "new-comers" have a chance to find out something about the origins of our hobby. Her program in basic geology is what everyone needs. What's the use of having a hobby unless you know as much about it as you possibly can? The 7 to 7:30 time is too short a time, however.

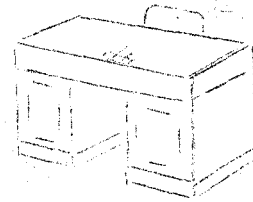
We know it's "old hat" to the old-timers and they probably know all about everything and would rather socialize -- but -- why can't they let us in on their knowledge by making a larger part of the meetings educational?

We've had some darn good programs the past couple of years and the program chairmen are to be commended. We'd like to have more of it.

-- The Balkes

(Reminder...Evelyn's presentation will follow refreshments this month)

FROM THE DESK OF THE LIBRARIAN...



There are fascinating ideas just waiting to be

explored - "A Great Trip" to be taken in any one of our library books. How about "The Angstrom"; "Ultra-violet and Beyond"; "Longwave Ultra-violet"; "Short-wave Ultra-violet"; and "Inside the Atom"? These are but a few of the ideas to read about in "The Story of Fluorescence". Another small book "Black Light Creates Fascinating Fluorescence" tells about the use of fluorescence in our everyday life and as a "gem-dandy hobby".

Three more books were donated to the library in January, 1971, plus several copies of Lapidary Journal. Helena Baegl gave us the "Mineral Kingdom" by Paul Desautels. "Principles of Stratigraphy" and "Introduction to Historical Geology" were given by Kathryn Ulrich. The copies of the Lapidary Journal were given by Ralph Ulrich. We now have complete sets of Lapidary Journal for the years 1963 through 1969, except for one copy...April, 1968.

Now, I need some help to locate a few books...if you have one of the following please let me know: "Minerals of Arkansas", "Bureau of Mines State of Arkansas - 1925", "Western Gem Hunters Atlas" by Cy Johnson, "Mineralogy for Amateurs" by Sinkankas. If you will return the book to the librarian for cataloging you may then check it out again.

Thank You...Kathryn Ulrich, LGMC Librarian

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The above brings to mind a project that was proposed over a year ago - a book case to store our books at the meeting hall was to be built or purchased. Our librarian has done a good job of organizing and cataloging everything...now let's do something about the book case. It would benefit and convenience all club members if this project were completed. (Ed.)

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CALENDAR OF EVENTS:

- May 5-7 Greater Kansas City Gem & Mineral Clubs Show, Kansas City, KS
- Mar 13-14 Black Hawk Gem & Min Soc Show, Waterloo, IA
- Apr 3-4 Cedar Valley Rocks & Mineral Soc Show-Marion, IA
- Apr 17-18 Sioux Empire Gem & Mineral Soc Show, Sioux Falls, SD
- Apr 30-May 2 Central Nebraska Rock & Min Soc Show, Hastings, NE
- Apr 24-25 Little Gems 1st Annual Show, Gardner, KS
- May 1-2 All Iowa Rock Roundup, Fair Grounds, Nevada, Iowa
- May 8-9 LINCOLN GEM & MINERAL CLUB SHOW, STATE FAIR GROUNDS, LINCOLN, NEBRASKA
- May 15-16 Picture City Gem & Mineral Soc Show, Hot Springs, SD
- May 15-16 Coteau Des Plaines Gem & Min Soc 1st Show, Watertown, SD
- June 5-6 Siouxlant Gem & Mineral Soc Show, Sioux City, IA
- June 4-6 State Gem & Mineral & Hobby Show, Casper, Wyo
- July 17-18 ROCK SWAP hosted by 100th Meridian Rock Club, Lafayette Park, Gothenburg, NE
- July 22-25 IWF Show & Convention, Mansfield, Ohio
- July 27-Aug 1 Iron Range Trail Along, Hibbing, Minnesota
- Sept 4-6 Nebraska Min & Gem Club Show, Nat'l Guard Armory, Omaha, NE
- Sept 17-19 Plains Rock & Mineral Club Show, 4H Bldg., Kimball, NE
- Oct 8-10 NAOESCI State Gem & Mineral Show, Ogallala, NE
- Oct 1-3 Topeka, Kansas, Rocky Mountain Federation Show



GLENNA'S GLEANINGS

Mrs. Luella Paul returned home from the hospital on January 25 after a week's stay. Happily, without the surgery she had feared. She sends "thank you's" to those who remembered her with cards, letters and kind deeds.

Pat and Don Lawson attended the motorcycle races at the Houston Astrodome in Texas in late January. Don is pitman for Joey Juricek who is Marie Carveth's nephew.

Jim Parks took a trip to Texas in January as well, to Dallas in fact, to attend the 1971 preview of the new Honda's. Handy vehicles on a rock trip.

Debra and David Rupert celebrated their 17th birthday on February 5. Many happy returns!

Rod Woodcock has been accepted for the summer semester at the School of Mines in Socorro, New Mexico. He drove down to finalize plans on January 29th and came home via Colorado for some skiing.

Charles Kitchen very kindly invited members who are not fortunate enough to have their own equipment to call him for an appointment to use his.

New address for Fred and Jeanette Claus after February 20th will be: Cascade Trading Post, 701 Thompson Canyon Rd., Star Route, Box 601, Loveland, Colo 80537.

For those who attended the Sports and Travel Show at the Auditorium, the glassblower exhibitor, Don Adams, is the one who will be a special feature at our annual show. Our club Prez was also there behind the desk at their cycle exhibit.

Several members have been working on material for competitive displays at our show in May. Darline Sprick has some very handsome jade cabachons ready to mount for her display.

Lucky Ralph Ulrich! His Wichita case that has been considered lost since September turned up with the club cases. Also, he acquired a new Ultra Tech faceting machine which he reports to be a pure pleasure to operate. The old one that Ralph made himself is just sitting around. Seems like someone ought to use it.

Tom and Caroline Simmons took a month-long trip to points south after Christmas. They drove down the west coast of Florida to Key West and up the east coast. Blue and white agatized coral, crystals, rocks and shells are some of the loot they brought back. Bring some specimens to the meeting, huh, Tom?

Sincere ^{sympathy} to the Ewald Pauls on the loss of Luella's mother, Mrs. Ida Niemeier of Beatrice who passed away on her 85th birthday. Mrs. Paul asked your reporter to extend thanks to members for their cards and memorials.

(continued next page)



GLENNA'S GLEANINGS, (continued)

The Show committee met with Marie and Lynn Wells on February 5 at their home, to finalize plans for the May show. In spite of changing sites at this late date to the Exposition Hall at the Fair Grounds, things seem to be jelling quite well.

Roger Pabian's book "Record in Rock" got very good reviews in Earth Science Magazine. We bask in your reflected glory, Roger.

Your Reporter, Glenna McGinnis

PS...Just going to press and received word that Tom Simmons will enter the hospital at Offutt Air Force Base at Omaha on Monday, Feb. 15 for surgery. He expects to be back home in a week. We're sure cards will be welcome.

Our confined member, Lloyd Baugher, treated his wife Louise to dinner and the theater in Omaha on the 14th, in honor of her birthday and Valentine's Day. (Your editor has been enjoying a quick card game now and again with Lloyd...he plays a mean game of Pitch!)

Dee Rankin entered the hospital on the 14th to undergo check-ups... hopefully she will be home in a few days. Good luck, Dee!

Edith Holdorf and Norma Miller have been sporting "bad backs"... compassion anyone?

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1971 AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES SCHOLARSHIP FOUNDATION AWARD went to Dr. Eugene S. Richardson, Jr., of Gurnee, Ill. This award is presented annually for outstanding achievement in the Earth Science field. Dr. Richardson is advisory editor of Paleontology for Earth Science Magazine, honorary member of MWF, the Lake County Gem & Mineral Society of Waukegan, Illinois, the Earth Science Club of Northern Illinois (ESCONI) and Chicago Rocks & Mineral Society. He has been curator of invertebrate fossils for Field Museum of Natural History since 1946 and a great help to the amatuer by lecturing to Chicago area groups. He works closely with local clubs in their search of the strip coal mining area near Chicago where so many spectacular paleontological finds have been made.

We extend our Contratulations, Dr. Richardson.

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SOMETHING TO REMEMBER

Have you cleaned up round your campsite
Before you leave for home at last,
Empty tin cans, empty bottles, and
Those broken bits of glass?
Even those left there by others,
By some sloppy Joe or Bess,
'Cause they know there's always someone
Who'll clean up their dirty mess!
When you get back to the city,
Shake Johnny Horizon's hand,
And tell him you only left behind
Your footprints in the sand.

via
Trailpost

via
Gemdrops

ONE VOICE

It was unfortunate that some of you were unable to attend the meeting January 23rd during which we devoted a major portion of the program to talking about the national Federation Show coming up in 1974. I have mixed emotions about that meeting and the response from those present to the proposed project.



First, I think that I failed to express the historical importance, the widespread impact that this will have upon those in our hobby, or to inspire those that are not now aware of the magnitude of the change that could come to our club as a result of this great show. I say this because there were very few questions asked, and very few comments addressed to the Committee.

On the other hand I am delighted that the great majority of those present voted in favor of the project. This action was needed so that now we may make definite commitments toward the project.

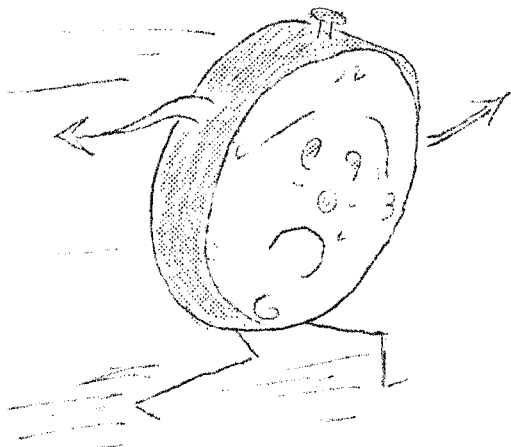
Your Steering Committee and the Show Director may now begin to choose the Division Chairmen and to start action in several divisions in plenty of time to do a good job.

The present plan is designed toward producing one of the most memorable, if not the most popular show, ever to come to the Midwest. The reward will be widespread recognition; the price we will pay will be that we must live in the white light of publicity, being a target for the shafts of the envious few. If our work should be merely mediocre, we will be left severely along; the punishment, denial and detraction.

I would choose, if the choice were mine alone, to become a target and start a thousand tongues a-wagging. For it seems to me that whatever is good or great makes itself known, no matter how loud the clamor of voices against it.

But we should not let the responsibility fall on the shoulders of a few inspired members, let's all share this great event. Contact your Show Director, Irl Everett, immediately and have your name placed on record as one of those who are willing to "stick his neck out". See you in February

--Ralph Ulrich, Chmn.-Steering Committee



Time Flies

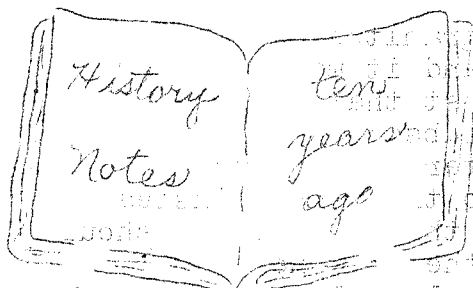
You have until February 28
To pay your dues
To get your name
In our Who's Who

Goodbye and Good Luck to Fred and Jeannette Claus who leave this week to take over their retirement business in Colorado. They will be running their own Trading Post nestled against a canyon wall near the entrance to Thompson Canyon. It looks like a rockhounds dream come true.



They wish to express their appreciation to any LGMC members who have found their way to Santa's Shop and selected merchandise to enhance their collections, and at the same time invite you to stop in and visit them in their new location.

They do anticipate a return to Lincoln when the weather is more favorable to transport the balance of their possessions. At last report they still had two large glass cases and a small revolving display case to dispose of. Contact them if you are interested.



Thirty-five members and three guests attended the January 1961 LGMC meeting at Morrill Hall. Presiding was Des Gibson, President. Associate Professor of Geology, Mr. T. L. Stout spoke to those in attendance on cataloging specimens. Slides were shown of many European rock formations, museums and other interesting building structures.

The February 1961 meeting of LGMC met at Lundy Center with 40 members and 6 guests present. An illustrated program with colored slides of Missouri caves was given by Richard Hedges. Frances Tracy-Historian

ADVICE TO THE LOVELORN...for this month-February...via the Template

1. Look gneiss
2. Never look like an old jade or an old fossil, the variscite of both are distressing
3. Be mannerly and perlite
4. To eat pyrite, use your fork and don't let your apatite show your stuff that comes in quartz, lest she think it's a cinnabar served you anything stronger than coke
5. Don't try to be tuff or as hard as flint
6. Never carry a blackjack or a carbon, lest sooner or later dry bones marcasite where you fell
7. If you must be a wulfenite, go find yourself an Amber and don't gypsum poor fellow out of his precious Opal Willemite but Jasper never wood
8. Schist remember this - swim on your own merits or zinc

Follow these rules and you can soon take your pick and win a lot of prase, but don't take too much for granite, anyway, not jet.

"Breccia my children" - follows a gold ring set with diamonds. Augite, so what? It takes a lot of brass, but they stilbite.

(from Loess)

Insanity is hereditary...you can get it from your children: River Valley News via Monthly Grind

METAMORPHISM AND CRUSTAL DEVELOPMENT -by Roger K. Pabian

CONCLUSION

Read (1956) and Read and Watson (1962) show that granites in several orogenic belts occur in similar positions at similar stages in the evolution of a mobile belt. Read (1956, p. 335) recognizes granitic series whose early stages are deep seated and whose later stages are intrusions high in the geosynclinal pile (See figure 4).

Granite, as its coarse texture indicates, crystallizes below the surface in intrusive bodies up to 5 or more miles in diameter (Read and Watson, 1966, p. 53). Many of these bodies are emplaced by forceful or permitted intrusions (see figure 5).

The importance of granites in crustal development is neatly summed up by Read (1956, p. 372-373).

Perhaps the grand problem (origin of granites) as it is currently stated can not be solved - and it may be worthwhile stating it differently. I suggest that we do not think of a continuous granitic shell subsequently made discontinuous from the start. As Walter Bucher has well put it "...many of us are beginning to think that instead of asking "Why is granite absent from the oceans?" we should be asking "Why is granite present in the continents?" As I have just said, the basements are largely granitized sediments and I propose that the continental blocks have been built up by continued granitization of the earliest sediments. The formation of these sediments may have taken place in various ways. Rittman has suggested that the granitized materials condensed from the early atmosphere. I would like to suggest the early earth had a solidified outer basic layer (the earth is a very basic body indeed) which had certain slight irregularities perhaps caused by the irregular accumulation in patches of granophyric differentiates, similar to those at the tops of thick basic sheets. Denudation of this material could be followed by the granitization if the resultant sediments - the granitizing fluids arising as a consequence of the crystallization of further quantities of basaltic magmas. Once the process starts it will go on, with repeated granitizations building up sialic rafts. As these grew, they came up out of the hitherto universal ocean by isostatic adjustment. We have then no problem of a continuous granitic shell made discontinuous - it began like that. I conclude these not too sedate remarks by leaving this solemn thought with you: It may be that it is only by the grace of granitization that we have continents to live on.

Contact metamorphism is associated with granitic intrusives as it is with the early basic intrusives. There are similar facies in each case but differences in the contact aureoles produced by the two types of bodies should be elaborated upon.

(continued next page)

METAMORPHISM AND CRUSTAL DEVELOPMENT -by Roger K. Pabian
CONCLUSION (continued)

The Donegal Granite of Ireland is an intrusive body covering some 350 square Km. The contact aureole varies in width from 1 to 3 km. Sillimanite and kyanite schists are prevalent near the intrusive body but as we progress outward phyllites become more important.

Philbrick (1936) mapped the Anawa Pluton in Maine. This body is a granodiorite intrusive in late Paleozoic slates and covers some 70 square km. Closest to the intrusion we find hornfelses with tourmaline, cordierite, and sillimanite, which grade outward to andalusite-biotite hornfels and grades finally to chlorite rich slates.

Noticeable are the greater dimensions of contact aureoles associated with the granitic bodies. Basaltic magmas are generally intruded at a temperature of (1000-1500) degrees Centigrade and have relatively narrow contact aureoles whereas granitic magmas are intruded at temperatures ranging from (550-600) degrees Centigrade and have relatively broad contact aureoles. This seeming anomaly may be due to the fact that basaltic magmas are quite "dry" while granitic magmas may contain up to 10 percent water. A large part of the energy of the basaltic magma would be needed to drive out excess water (heat of vaporization 536 cal./g.) from the country rock and this would result in a chilled contact. The granitic magma, being rich in water, would not be so affected.

SUMMARY

It is concluded that metamorphism has played a key role in the crustal development of the earth. The original crustal material may have been a largely undifferentiated simatic material. Sometime early in the Earth's history, a hypothetical "geosyncline number one" must have formed. This provided a crucible in which the reactions associated with differentiation took place. Repeated episodes of differentiation in later geosynclines resulted in the origin of new granite bodies, the sum of which form the continents.

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BITS AND PIECES....

TO CLEAN A CONTAMINATED LEATHER buff wheel get a pumice block at your drug store, the kind used for cleaning bathroom fixtures. Run your buff dry. Hold the block to the running wheel with a medium firm pressure. It will dislodge the unwanted particles and make your wheel clean as new.

FACETERS.....try cerium oxide on plexiglass for a good lap and compound. (via Cedar Valley Gems)

A LITTLE GRAPHITE added and mixed with chrome oxide and applied to ordinary buffs makes a wonderful jade polishing agent. (Pebble Pages)

To obtain the best picture or most interesting surface when cutting thundereggs, saw through the largest (one). If oval shaped, saw lengthwise for best exposure. This does not always hold true but may prove helpful.

REMEMBER...WHEN USING ACID ...
NEVER MIX TWO ACIDS
NEVER MIX ANY ACID WITH PUREX
ALWAYS CLEAN CONTAINERS WITH SODA WATER TO NEUTRALIZE ACID
VIA EMERALD GEMS

THREE A's TO REMEMBER...
Always Add Acid to water, never the reverse.

AND REMEMBER to check out any new machinery you purchase. Not often, but once in a while you will run into equipment that was not put together properly. (Mich. Lap. Soc.)

ROCK TRAILS warns of toxic danger in some minerals with specific reference to beryl. It is imperative to use plenty of water and to wash well after working with it.

To clean FRAGILE specimens (not water soluble), set the specimen in a bowl and sprinkle Polident on the specimen. Very slowly fill with water. Allow the Polident to finish

its bubbling, then rinse by creating a very gentle flow of water across the specimen.

TO CLEAN brown iron stain from Quartz xls, place a spoonful or so of crystals of Tartaric acid in water and immerse the specimen. Tartaric acid comes in crystal form, is stronger than oxalic acid but milder than hydrochloric and its residue is easily washed off.

UNWRITTEN RULE OF OLD MINERS...
"While a miner's tools, equipment and/or personal property remain in or near to a digging; that digging is his until he relinquished it either by removing said property announcing that he is finished digging in that area. FURTHERMORE, any material, specimens or rocks cached on or near with said property are also the property of the miner, and shall not be touched or removed without his express permission."...Respecting this rule is an obligation of the "rockhound" inasmuch as we are prospecting when we go collecting.
(via the ROCKPILE)

PSEUDOMORPH...refers to a mineral that is altered in such a way as to change the internal structure and still preserve the same external form or appearance. It means "false form" which implies that the outside appearance is deceptive since the mineral does not have the atomic structure that you would suspect from observing the surface. The most familiar (to us) is petrified wood. Petrified wood has the look of wood but the chemical composition and atomic structure of chalcedony quartz. "Limonite after pyrite" is a common pseudomorph, originally pyrite, now altered chemically to limonite. The cubic crystals are false, representing only the shape of the previous mineral, as nothing else remains of the earlier pyrite.

(Rocky Times, via the Seeker and Cedar Valley Gems)



PROGRAMS AVAILABLE FROM THE MIDWEST PROGRAM LIBRARY
 All Programs Listed Are 35mm Slides-Fee \$1 per Program
 Order from Mrs. Evelyn Hirsch, Rt. 1, Mitchell, Ind 47446

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 MINERAL'S OF THE EARTH'S CRUST - 50 slides
 MINERAL IDENTIFICATION - 67 slides
 CARVING A JADE BOWL - 38 slides
 ANIMALS OF THE ANCIENT SEAS - 124 slides
 LIFE REVEALED IN THE ROCKS - 88 slides
 1962 NATIONAL GEM AND MINERAL EXPOSITION
 IN DES MOINES, IOWA - 130 slides
 SEEING THE MINERAL SPECIMEN - 100 slides
 OUR IGNEOUS ROCKS - 43 slides
 OUR SEDIMENTARY ROCKS - 45 slides
 OUR METAMORPHIC ROCKS - 45 slides
 CALCITE AND ITS CRYSTAL FORMS - 54 slides
 PSEUDOMORPHS - 31 slides
 COLORFUL ARIZONA - 78 slides
 JEWELRY AND SILVER SERVICE-108 slides
 JUNK TO JEWELRY-108 slides
 LIZZADRO MUSEUM - 101 slides
 COLORADO FIELD TRIP - 142 slides
 OREGON GEM TRAILS - 90 slides
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 STORES IN RELIGION - 95 slides
 THE COPPER COUNTRY, ITS MINES & MINERALS-107 slides
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 THE STORY OF ANCIENT MAN - 33 slides
 UTAH TRIPS AND TREASURERS - 120 slides
 DESIGNING WITH METALS AND GEMS - 80 slides
 A FIELD TRIP TO THE TRI-STATE AREA - 93 slides
 THE STERLING A(g)e - 71 slides
 GEM FACETING, A PRECISE ART - 72 slides
 FIELD TRIPPING IN ILLOWA TERRITORY - 99 slides
 THE GROTTO OF REDEMPTION (W. Bend, IA Grotto)-100 slides
 CAPEOS, INTARSIAS & SCOTTISH JEWELRY - 75 slides
 PLANT LIFE THROUGH THE AGES - 117 slides
 IWF SILVER JUBILEE SHOW, Evansville, IN 1965-108 slides
 MICROMOUNTING
 SILVERSMITHING - 71 slides

16mm MOVIES

MOON WALK #1, Fee \$1.00

THE WORLD OF THE ROCKHOUND -in color with magnetic sound. 37 minutes
 Fee \$2.50 (a 16mm magnetic sound projector is required for this)
 STORY OF THE GEMS -in color, silent with annotated script. 80 minutes
 Fee \$2.50. (This program is mounted on 2 12" reels which
 necessitates a reel change. Have an extra reel available.

8mm MOVIES

MOON WALK # 2 - Fee \$1.00

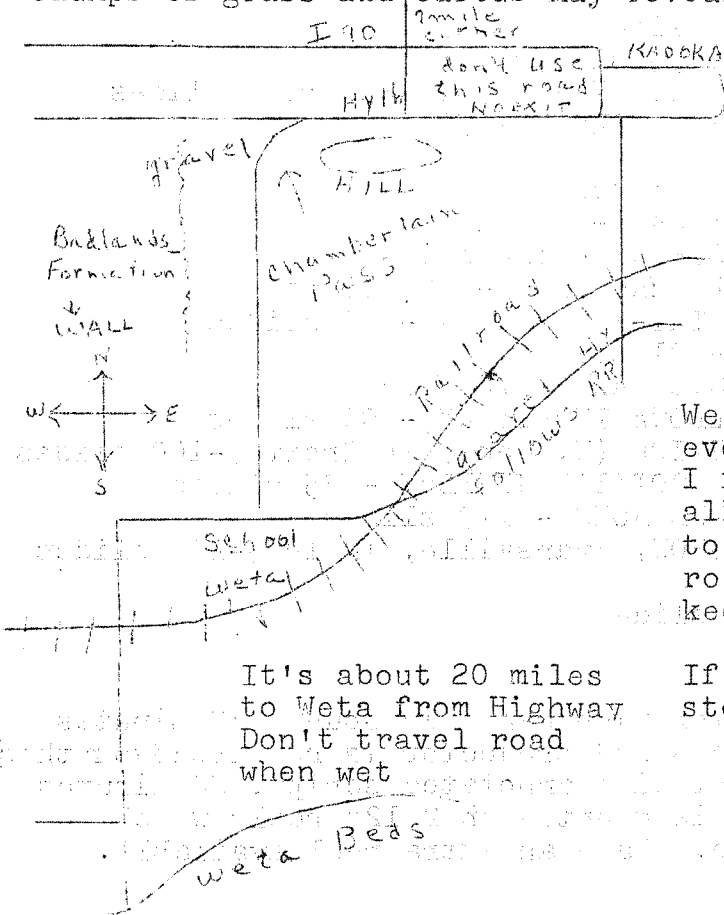
Ordering suggestions: Be sure to give 1st, 2nd and 3rd choice of
 dates. If you want a program for a definite date, then give a choice
 of programs. Include fee when ordering...checks payable to Evelyn Hirsch

HUNTING & COLLECTING FOSSILS AND MINERAL SPECIMENS IN SOUTH DAKOTA

Since the Murdo convention where I met your good editor, we traveled out to the Badlands. I can remember when the idea of a convention at Murdo was first conceived, many thought the rocks would be picked up. As you may know due to the weather, the hunters went to Interior both times. This letter is proof as well as my specimens, that there is plenty of collecting left.

We went out for four days, hunting the Weta and Interior beds. Due to bad weather we headed to Interior first. We drove into the beds which are six miles west of Interior, named after the Dept. of Interior, on highway 40. This land is open range and hunting is open. The area is not in the park so collecting is allowed. As you travel the six miles - part black-top and gravel - you will notice the rock beds shining in the sun. You will know when you arrive at the area by the lack of a fence on the north side of the road plus rest rooms on the land. You can drive right in as far as you want, but be careful. Rain can be very bad because the land is gumbo and cactus can cut tires.

Every time I go hunting, I am fearful of rattlesnakes. I talked to one West River rancher-rockhound and he said he never saw a snake on the rock beds. That is not to relieve your alertness as little clumps of grass and cactus may reveal the home of a snake.



We hunted during those four days in hot degrees of August to find about nine fairburns, seven of which were mine. I had about thirty pounds of highly agatized wood, forty pounds of eye-agates (jaspers) and about forty corals. I found a favorite and a worm petrified into a rock.

We also hunted the Weta beds, which everyone thinks are picked over. I found an arrowhead there among all the rocks. The map shows how to get to Weta (once an old Railroad stockyard town on the Milwaukee Road).

It's about 20 miles to Weta from Highway 40. Don't travel road when wet

If you are ever in Mitchell please stop and see my basement of rocks.

Sincerely - Ron Fuchs
703 N. Edmunds
Mitchell, SD

(Thanks for the article, Ron - we will look forward to more contributions in the future. Ed.)

Midwest Federation's NEWSLETTER



Published monthly except July and August as a service to member clubs
All news, articles, subscription orders and requests for information concerning publication
should be sent to P.O. Box 1130, Des Moines, Iowa 50311

Issue No. 112 - February 1971

1971 CONVENTION AND SHOW

Come to Mansfield, "The Fun Center of Ohio", July 22-25. The show committee wants this to be an enjoyable show with something for all the family. On the serious side, however, there will be some very informative programs and a number of excellent educational displays.

Individual exhibitors, either competitive or non-competitive, will be given free admission. This does not apply to club exhibits. There will be an area for "come and go" cases. These exhibits, however, will not give free admission.

The roster of dealers is complete and there will be 30 of the top dealers from coast to coast covering all types of material and equipment. Cafeteria food service will be available in one of the fairgrounds buildings and camping is permitted on the grounds.

Packets of material will be sent to clubs in February. These will include flyers, advance registration forms, exhibit entry blanks, and information on accommodations.

Watch the Newsletter each month until show time for additional information. - B. F. Parr, chmn., 1488 Marion Ave. Rd., Mansfield, Ohio 44906

OUR STAMP PROGRAM

The Midwest continues to help saving lives by asking its member clubs to save used postage stamps. The used stamps are turned into cash to provide food for hungry children overseas. Each dollar can provide up to 220 pounds of food.

Cut stamps from envelopes or paper leaving about 1/4 inch margin of paper around the stamp. Count the stamps into bundles of 100 and mail them together with your name, name of your club and your complete address to Mrs. W. H. Steinbrenner, 2813 Patricia Drive, Des Moines, Iowa 50322.

Please do not send torn stamps or straight edges and commemorative stamps are most desirable.

IS YOUR CLUB PARTICIPATING IN
THE SCHOLARSHIP PROGRAM?

UNIFORM RULES SUPPLEMENT

A copy of the Uniform Rules Supplement is being mailed with this issue of the Newsletter to all officers, members of the Executive Committee and all members clubs. Please insert this sheet in your Uniform Rules (RED) book.

1971 WINNER OF AFMS SCHOLARSHIP AWARD

Dr. Eugene S. Richardson, Jr., of Gurnee, Ill., has been voted the American Federation of Mineralogical Societies Scholarship Foundation Award for 1971. The Federation, which has well over 60,000 members, presents this Award annually for outstanding achievement in the field of Earth Sciences.

Dr. Richardson has been Curator of Invertebrate Fossils for Field Museum of Natural History since 1946. During that interval he has written many articles for the Field Museum publications, and for other paleontological journals. He is advisory editor of paleontology for Earth Science Magazine, and an Honorary Member of the Midwest Federation of Mineralogical Societies, the Lake County Gem and Mineral Society (Waukegan), the Earth Science Club of Northern Illinois (ESCONI) and the Chicago Rocks and Minerals Society.

Pen State University awarded him his M.S. Degree in 1942, Princeton his Ph. D. in 1954.

No Midwestern Paleontologist has helped the amateur as much as has Dr. Richardson. He regularly and frequently lectures to Chicago area audiences and works closely with local club members in their search of the strip coal mining area southwest of Chicago which has produced so many spectacular paleontological finds.

In behalf of the Foundation he will select schools that will receive grants from the Foundation to assist six graduate students for two years each in pursuing their work toward a Masters or Doctors Degree in any of the Earth Sciences. -W. H. deNeui, President

ZIP CODE CORRECTION

Our First Vice President, Bernard Parr, 1488 Marion Avenue Road, Mansfield, Ohio has had his zip code erroneously printed on the MWF stationery and in other publications. His correct zip code number is 44906.

A PLACE FOR MINING AND INDUSTRY

With all the current emphasis on ecology and conservation, it would be too bad if people did not realize that there is a place for mining and industry," writes Calvin George, chairman of legislation and conservation for the Midwest Federation. In support of this observation, he cited two recent articles. Quotations by permission from the articles, the first from the April Ore Bin, publication of the Oregon Department of Geology and Mineral Industries, and the second from the March Missouri Mineral Industry News, published by the Missouri Geological Survey, follow:

The sand and gravel industry in Oregon, being concentrated in the Willamette Valley near the population centers, is becoming hard pressed to provide the raw materials needed to build our highways, bridges, and airports. There is a potential shortage of this valuable product for the coming years, because many of the better deposits are being overrun by housing or other incompatible developments. What happens to a gravel pit after it is mined out? Can the land be reclaimed or put to other uses?

We are printing the following editorial which recently appeared in the Missouri Mineral Industry News:

Mineral deposits are where you find them; sometimes they're in convenient places, sometimes not, but wherever they are they can only be recovered by mining. Once highways, homes and industries are built over mineral deposits they are lost and must be sought elsewhere. The Geological Survey has long advocated sequential use of lands underlain by mineral deposits. First, mine the minerals with a plan toward reclamation and reuse of the land. Second, reclaim the land so that it may well yield more than was gained from the mining. And third, reap the benefits in increased tax revenues from land that might have been rendered worthless without forethought.

Is this practical? The city of Mexico, Mo. has schools built on land that once was a "worthless" clay pit; the clay that was once there financed the reclamation and part of the school construction and the upbringing of many of the kids who go there, while serving the nation in such capacities as boiler linings and launch pads for space vehicles. Last month the Nation's First Lady toured a reclaimed coal strip mine (in Illinois) that will eventually bring its developers more money than the coal brought the mining company. Underground mines in Kansas City and Springfield provided cheap concrete aggregate and road stone for many years; now the mined space houses instrument factories, computer centers, warehouses and terminals that will provide profit for the owners and taxes for the cities far in excess of the value of minerals that were once there, and are now used.

The Columbia (Mo.) coal mining problem is an ex-

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A BOOK FOR FOSSIL COLLECTORS

"Record In Rock", a handbook of the Invertebrate Fossils of Nebraska by Roger K. Pabian and illustrated by Sally Lynne Heald. Has 99 pages, maps, tables, drawings, color plate, bibliography. Write University of Nebraska, Conservation and Survey Division, Lincoln, Nebraska. Price is 50¢ (52¢ in Nebraska).

This paperbound book is a must for every fossil collector in the midwest. The skillful presentation and the excellent drawings are of infinite help in the identification of all fossils less than 325,000,000 years old. The appendix listing all the fossil invertebrates, plants, and fishes that have been found in the state, with a complete list of references to the primary literature on each genus, makes this a truly scholarly book. But the clear, concise language makes this a publication for anyone who really wants to learn in this area - young or old, amateur or professional.

cellent example of how mining's poor public image and the public's uninformed outlook combine to saddle the citizens with higher utilities costs and lower tax revenues from unattractive developments. Some time ago, Peabody Coal Co. leased acreage outside Columbia for strip mining of coal. Subsequently the city annexed the area and immediately a hue and cry arose to stop the proposed stripping.

It happens that Peabody supplies Columbia City Utilities and the University with coal, and the beauty of this particular coal field lies in its proximity to the coal-fired electric generating plant. The savings in trucking costs can be passed on to the people of Columbia in the form of lower electric bills.

But this is not the only reason for advocating coal stripping Columbia. The technology is already available for reclaiming mined lands; it is now possible to plan mining in a way that will give an end product of attractive landscape with recreational lakes, etc. that can be a part of the normal mining expenses. The great shovels that expose the coal need not be the monsters they've been portrayed as; people made them, people can control what the machines make.

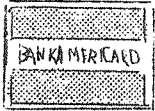
We can think of no better way to have one's cake and eat it too. Why not work out a plan with the mining company for imaginative reclamation of the mined lands?

MRS. OLIVER ROSKAM

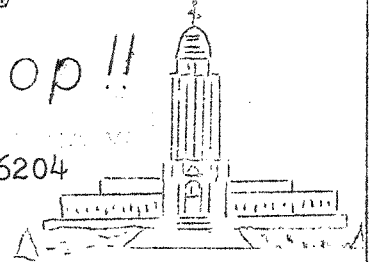
The Midwest Federation extends its sincere sympathy to Oliver Roskam in the death of his wife Betty Elizabeth on December 25th. Oliver and Betty were co-chairman of the Bulletin Editor's committee.

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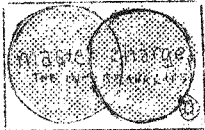
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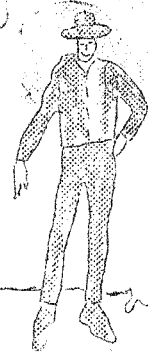
MWF CONVENTION & SHOW - July 22 thru 25 - MANSFIELD, OHIO

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*Johnny Horizon
Says:*

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Land



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LINCOLN GEM & MINERAL CLUB ANNUAL SHOW - MAY 8-9, 1971

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