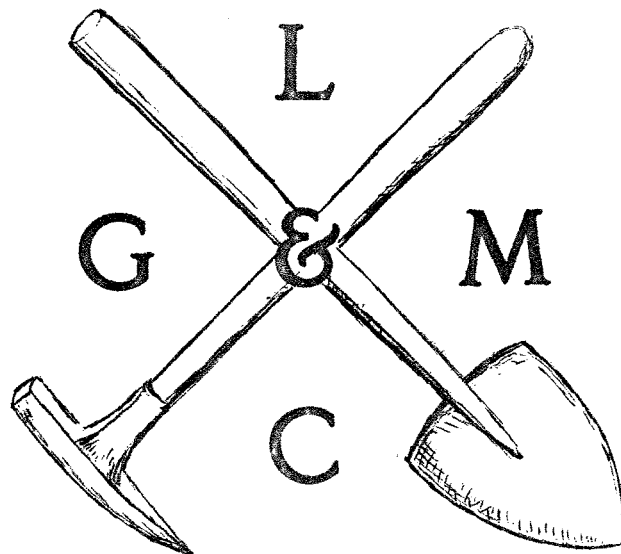


THE PICK & SHOVEL



OFFICIAL PUBLICATION OF
LINCOLN GEM & MINERAL CLUB

HOST OF COMBINED

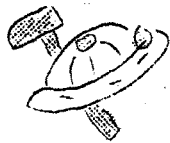
MWF-AFMS NATIONAL SHOW AND CONVENTION
AND NEBRASKA STATE SHOW

JUNE 13-16, 1974
LINCOLN, NEBRASKA

SEP. 1972

THIS MONTH

FIELD TRIP...Sat. Sept. 16, 10:00 AM...Peru, Nebraska trip cancelled but the 'rained-out' trip of April 29 is to take its place. Meet at the Court House in Wilber, Nebraska. Tom will lead the trip for fossil clams. From this area we move to a place south of Fairbury for selenite, marcossite and leaf fossil. If time permits, a stop at Odell for 'diamonds' is possible. Bring regular rock hunting equipment and carrying bags. Paper to protect fossils? Also bring your sack lunch and drinking water.



REGULAR MEETING...Saturday, Sept. 23rd, 7:30 PM
W.O.W. Bldg., 734 S. 27th St.

Business: Election of Nominating Committee
Presentation of Tod Ashmun Memorial
Program: "Museum of Anthropology, Mexico City". A Slide program presented by Mr. Vern Montgomery himself, of Downers Grove, Illinois. This is a new program and should be interesting for all.

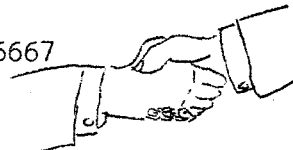
Rock Feature: Bring your summer finds and/or your best Lake Superior agate. Prizes will be the appreciation of those who come to "see and talk". Thanks to all who have contributed to this feature in 1972. I have heard lots of pleasure expressed at your participation. -Phyllis Parks, Program Chairman



REFRESHMENTS...furnished this month by Florence Boring, Sally Heald, Jim, Phyllis & Linda Parks, and Lynn & Marie Wells.

ADDRESS CORRECTIONS...Fred Day & Rick, 1911 N. Marion, Flagstaff, AZ 86001
Norman Balliett, 1421 8th Ave., Holdrege, NE 68949
Frank Rule, 1825 Bay St., Port Orchard, WA 98366
Kay & Ralph Ulrich, Oakwood Apts. # D116, 5101 N. 40th St., Phoenix, AZ 85018 (Expected back to Lincoln Address Oct. 1)

NEW MEMBERS...Mike Holmquist, 620 S. 48th, 68510 ph 489-6667



COMING EVENTS:

- Sept. 15-17 Plains Rock & Mineral Club Show, 4-H Bldg., Kimball, Nebraska
- Sept. 16 LGMC Field trip, Wilber, Nebr. and other points...see above
- Sept. 16-17 Golden Belt Gem & Min. Soc. Show, 723 Main, Great Bend, Kansas
- Sept. 23 LGMC regular meeting, see above
- Sept. 23-24 Arbor Valley Gem & Min. Show, 810 1st. Corso, Nebraska City, Nebraska
- Sept. 29-Oct. 1 Platte Valley Rock & Min. Soc. Show, Guard Armory N. Hwy 83, N.Platte, NE
- Oct. 8 Reunion in Murdo, Gem, Min. & Rock Show, Murdo Aud., Murdo, S.D.
- Oct. 7-8 Sac & Fox Lapidary Club Show, Coliseum, Ottumwa, Iowa
- Oct. 7-8 Topeka Gem & Min. Soc. Show, Expo Center Frgrnds, Topeka, Kansas
- Oct. 14-15 Corn Palace Rock Club Show, 709 S. Center, Marshalltown, Iowa
- Oct. 21-22 Hawkeye Gem & Min. Club Show, Youth Barn S. Sixth St. Clarinda, Iowa
- Nov. 4-5 Chanute Gem & min. Soc. Show, S. Forest Ave., Chanute, Kansas

1973 SHOWS:

- Mar. 16-18, 1973 S. Central Federation Show, Villita Assembly Bldg., San Antonio, TX
- May 12-13, 1973 LGMC 15th ANNUAL SHOW, NEBRASKA STATE FAIRGROUNDS, LINCOLN, NEBRASKA

1972 STATE ROCK SWAP

The 1972 State Rock Swap was a great success! It was held August 5-6 at the wooded area directly north of the National Guard Armory. We had great support from the National Guard Group. They furnished us with tables, chairs and power for lights, coffee urn and power for the campers.

I must say thanks to Bob Bainbridge for helping people find places to park their trailers and campers. Marge Heedick deserves a great hand for keeping the coffee perking at all times. Garry Heedick provided us with an extremely large parachute. He opened it up in the trees and it served as a shelter. It certainly was a conversation piece. Tom Simmons and Larry Bigley have a lot of thanks coming their way. They furnished their trucks and muscles to haul everything from tables to getting melons.

Roger Pabian certainly had a nice field trip planned to the Weeping Water area. There were about 30 people that made the trip. Thank you, Roger!

Nelda Oliver and her Band Group provided us with polka music Saturday nite. They are really great. I want to thank them also especially for singing "Happy Birthday" to me. It certainly was a real surprise. Susie Taylor provided the cake for all. I was rather curious why Millie Bainbridge was running about getting people to sign her book, but found out later that she had everyone signing a birthday card to me. Thank you all!

After the band music everyone was invited to have melon. This is a traditional thing and should continue. The melon were very tasty.

Sunday we had our pot-luck dinner. What an array of food! We always worry about not having enough food to go around and always have more than enough. I believe rock-hounds love to eat as well as hunt rocks.

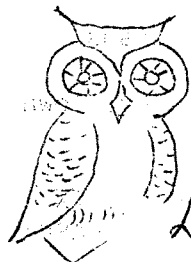
After the dinner we had our auction. Irl Everett was the auctioneer. He netted \$127. Really a good auction!

We had 130 people that signed the register. There were 8 different states represented. There was a lot of swapping going on both days; it looked like everyone had a good time. Many people complimented the swap and said they thought everyone was so friendly.

I did forget to thank all those who helped put out our flyers to various clubs and individuals. Phyllis Parks, Norma Miller, Ewald & Luella Paul, and Lynn & Marie Wells worked diligently getting the flyers out.

If I missed thanking others for their help it is an error on my part. So I will say thanks now.

The State Swap was a great success and hope future State Swaps will top this one.

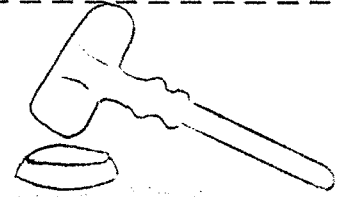


1972 State Swap Chairmen and Co-Chairman, Howard & Marie Taylor

*Give a hoot -
Don't pollute!!*

BRING YOUR BETTY CROCKER
COUPONS AND COMMEMORATIVE
STAMPS TO SEPTEMBER MEETING

THE PRESIDENT'S MESSAGE



Summer is nearly gone and I hope every one has enjoyed a profitable one as far as rock hunting is concerned. We are asking that you bring your most prized specimens for our 'show and tell' time at the September meeting.

Everyone should now gear themselves to working for a successful 1974 National Show. It is important that every member will cooperate to make this the biggest and best show to date. It's not an opportunity that comes often so "Let's Go," and strive for #1 show in #1 country.

I hope many of you saw the 4-H rock exhibit at the County Fair. Is there any reason why we as adults can't provide our own case and label the specimens in our show exhibit? Everyone likes to know what we have in our case and where it came from.

Tom Simmons has done an excellent job setting up field trips and I hope that all have been able to participate in one or all of the trips. There are two more left.

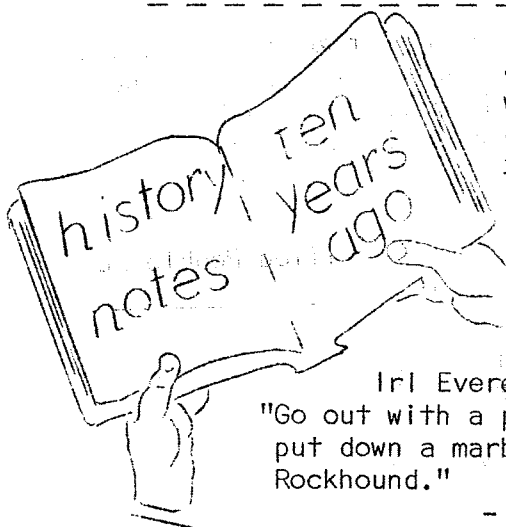
If you would like to see changes in the club or feel you can do a better job conducting the club business I hope you will let the nominating committee know what job you would like to run for. We have many very capable people and your talent can serve the club.

Those who went on the Wyoming and Crawford trip had the pleasure of becoming acquainted with Dan Mount, President of the Scottsbluff club and many members of the Crawford Club at a pot-luck supper on Sunday evening. The deluge didn't dampen spirits of those attending.

Howard Taylor must be credited with a successful State Rock Swap and also many thanks to members of the Polka Band.

Remember the Scholarship Fund and bring your Betty Crocker coupons to the September meeting.

Right on - Marie Wells, President



JULY -- In July a pot luck dinner and swap session was held at Pioneer Park.

Labor Day weekend twenty members were enjoying a trip to Fort Robinson.

SEPTEMBER --Final plans for our show and reports from the committee chairmen were made at this meeting. The club case, entered in competition at the Des Moines Midwest Federation Show, placed second - only three points short of first place.

Irl Everett gave his definition of how to become a Rockhound - "Go out with a pocket full of marbles. Each time you pick up a rock, put down a marble. When you have lost all your marbles you are a Rockhound."

- from the notebooks of historian, Frances Tracy



The Petrified Pebble Pups of Lancaster County 4-H Rock Club was enrolled with 12 members. These members have all completed successfully all the requirements to receive their Certificate of Achievement.

Each member exhibited at the County Fair 10 or more specimen, properly labeled, and shown in a Wichita Show case they put together themselves.

The club was awarded one purple, 8 blue and two red ribbons! The demonstration "Identification of Minerals and Rocks" presented by Lars Olson and Sequoya Flechs, won a blue ribbon and placed second in county competition and received Aksarben recognition!!

It has been a real pleasure for me to work with these young people - their enthusiasm and energy applied should be an inspiration to our own club members to do as well. I wonder if our club members could not set a goal and each one build or provide a show case for yourself and every specimen exhibited be properly labeled.

Members of the Petrified Pebble Pups 4-H Rock Club are: Lars Olson, President; Sequoya Flechs, Vice-President; Bill Denio, Sec-Treas.; Diane Colborn, social leader; Andrew Olson, news reporter; and Carolyn Allen, Jerry Lyne, Sandra Wright, Leigh Ann Weary, Dianne Denio and Brent Jones.

-Marie Wells, Leader

July

The Petrified Pebble Pups of Lancaster County 4-H Rock Club visited the rock section of Morrill Hall, Monday, July 10. They were directed among the many cases by Mrs. Messenger, an assistant at Morrill Hall. That afternoon the club met at Peter Pan Park for their regular meeting. Roger Pabian, the writer of "Minerals and Gemstones of Nebraska" visited the club. He judged displays that members had brought and also gave suggestions on how to improve them. Pieces for the Wichita show cases were passed out for members to put together. Refreshments were served.

August

The Petrified Pebble Pups of Lancaster County 4-H Club met Monday, Aug. 14, at Antelope Park to discuss the exhibit cases for the County Fair and the September Achievement Day program. The club was invited to attend a field trip to Marysville, Kansas, to hunt pink gypsum with the Lincoln Gem & Mineral Club. Members also tried their skill at identifying 23 rocks. Refreshments were served.

-Andrew Olson, reporter, 4-H Petrified Pebble Pups

JOKE...??..."Man, with his hand on the TV knob, to wife: "Dear, do you have anything to say before the football season starts?"

SELF-CONTROL: Calling a spade a spade after stubbing your toe on one!

MINUTES OF THE BOARD MEETING OF LINCOLN GEM & MINERAL CLUB, SEPTEMBER 7, 1972

The Lincoln Gem & Mineral Board meeting was held Sept. 7, 1972 at 8:00 PM at the home of Marie Wells.

Board members present were: Marie Wells, Tam Dutcher, Luella Paul, Irl Everett, Howard Taylor, Roger Pabian, Jim Parks and Tom Simmons. Committee members present were Glenna McGinnis, Pat Lawson, and Norma Miller. Guest present was George McGinnis.

The secretary read the minutes of the May meeting and they were approved as read with the exception of the motion made by Irl Everett in regard to the Show Dealers, the motion was not withdrawn by Roger Pabian as stated, but by Irl Everett.

The treasurer's report was given in detail and approved and a motion was made by Tom Simmons that the outstanding bills be allowed and Roger Pabian seconded the motion. Motion carried.

Roger Pabian, Show Chairman, 1972, gave a report on the show which read as follows:
Income: \$2437.09 minus Expenses \$1974.25 net profit \$397.51.

The M.W.F. meeting at Ishpeming, Michigan, delegates voted for a 10 cent raise, so now the dues are 35 cents.

It has been discussed in prior meetings and this meeting as to the increase of LGMC Club dues. A motion was made by Howard Taylor "That we do not increase the Club dues" motion seconded by Jim Parks. Motion carried.

Discussion was had on our club meeting location and it was decided to remain at the present location.

Howard Taylor, Rock Swap Chairman for 1972 gave a report on the Rock Swap held Aug. 4-6, at the site north of the Armory and it reflected a profit of \$65.49. Needless to say whomever attended enjoyed all phases of it.

A motion was made by Howard Taylor to donate \$20 to the National Guard Armory, seconded by Luella Paul, motion carried.

Committee reports were given by Glenna McGinnis and Pat Lawson.

The Club received Honorable Mention in the All American Federation Club Award.

A recommendation by the Board to the Membership that our Christmas Party dinner be catered and to be voted on in the October General meeting.

Irl Everett gave a report on the 1974 National Show as to its progress.

The next Board meeting will be Oct. 5 at 7:30 PM at the home of Luella Paul. Adjournment was made by Luella Paul.

Luella S. Paul, Secretary

REMINDER...to those who ordered name tags but have not picked them up yet... do so at the September meeting please. You could be using them and we will save postage if each picks up his own from Pat Lawson in September.

1972 SHOW

INCOME:	Projected	Actual
10 Dealers @ \$75	750.00	750.00
Ticket Sales	1,500.00	1,579.74
Rock Pile	----	63.00
Trailer Rent	----	42.00
Magazines	----	2.35
	<u>\$2,250.00</u>	<u>\$2,437.09</u>
EXPENSE:		
Rent	600.00	600.00
Electricity	20.00	12.00
Security	60.00	62.00
Labor	60.00	-----
Trailer Rent	----	42.00
Overhead Expenses	<u>740.00</u>	<u>716.00</u>
Educational Programs	35.00	94.00
Features	150.00	130.00
Insurance	150.00	118.00
Ribbons	60.00	30.75
Trophies	40.00	18.03
Decorations	30.00	----
Publicity	450.00	465.68
Programs	50.00	40.66
Blacklight	30.00	-----
Advanced Tickets	35.00	23.43
Award Breakfast	120.00	50.70
Gate Tickets	20.00	4.02
Miscellaneous	140.00	73.03
Table Rent	200.00	169.13
Sales Tax	----	40.82
Total Other Expenses	<u>1,510.00</u>	<u>1,258.25</u>
Total All Expenses	<u>2,250.00</u>	<u>1,974.25</u>
Profit	----	462.84
Less: Depreciation on Show Cases		67.33
Total Net Profit 1972 Show		<u>\$ 395.51</u>

TIP TO THOSE WHO WORK ONYX,,when working with soft stone such as alabaster, marble or onyx, soak it in water a day or so before cutting in oil. The oil won't soak in and later when polished a better finish will result.

Rockhound Herald via Earth Science News and Crystal Gazette

MWF COUNCIL MEETING...July 21, 1972

Being your delegate to the Midwest Federation meeting in Ishpeming, Michigan was an honor and new experience for yours truly.

The meeting was called at 9:30 AM, July 21, 1972 at the Holiday Inn in Marquette, Michigan.

The reading of the secretary and financial reports indicated clearly the need for raising the dues from .25¢ to .35¢ which was done with only one dissenting vote.

Reports from chairmen of future convention were well received including the one by our Ralph Ulrich who let them know in no uncertain terms that Lincoln, Nebraska was the home of Big Red the #1 football team.

It was explained to us that MWF has after a long battle secured from I.R.S. a 501.C3 tax rating, which allows us tax exemption for many of our activities; as an example, delegate expenses to this meeting are tax deductible.

It was pointed out by legal authorities that this newly won tax advantage would be in jeopardy if we adopted the Michiana Rock Club proposal to establish a Legislative fund and use this for lobbying activities. The lobbying would be in direct conflict with I.R.S. regulations for tax exempt organizations. After a little discussion the Michiana proposal was defeated unanimously, 100%.

Scholarship committee was appointed consisting of Russell Plock (sp?), chairman, Roger Pabian, and Bud Nicholi (sp?).

Many interesting reports were given by various clubs regarding their social service activities. A North Dakota delegate gave details of how one club has established rock cutting and polishing class for the handicapped.

It was pointed out that there were a number of things that clubs could do to improve relationships with M.W.F.: report all election results and answer all inquiries promptly. This in turn may be implemented by better correlation of old and new officers. Many times inquiries and reports are mailed to old officers and new officers fail to receive information.

Reports on junior activities have been weak and lagging.

I was impressed by the smooth flow of the delegates meeting and the things that were accomplished in a short time. I am very glad to have served as your delegate.

W. E. Wittmann

PLEASE NOTE...the advance issue of a new book "All Is But A Beginning", the story of the childhood and young life of Dr. John G. Neihardt will go on sale Oct. 4. The introduction was written by TV celebrity Dick Cavett.

"To Myrtle and J. D. Young who helped me find the Good Road again and make it possible for me to produce this which I regard as one of my best books."

- Dr. John G. Neihardt

On Sept 18th a taping of a TV interview will be made as pre-advertisement for this book. Dr. Neihardt will speak at Dana College at Blair the eve of Oct. 5. At the same time pictures will be shown on a screen behind him. Don't miss this!!!

1972 MWF Bulletin Editor's Contest and Breakfast

Your editor attended the MWF meeting and breakfast at Ishpeming, Michigan, July 21, 1972. The breakfast itself was in conjunction with the fieldtrip breakfast given by the Kiwanians in one of the churches. The meeting was held at the Wesley Methodist Church, the altar being made of inlaid amethyst by the convention chairman, Bob Markart, (very lovely). Paul Good, MWF Bulletin Editors' Chmn. of Griffith, Indiana, gave some opening remarks and stated that next year bulletins to be judged will be chosen from the October, 1972 thru the March, 1973 issues. He hopes to print a bulletin for editors only once every three months. (Maybe this will get me on the ball?) And he said to work with a deadline....don't we always? But it is true, goals are reached easier if a deadline is set, and it also helps if contributors get their material to the editor on or before the deadline.

We were given aids by various persons and realize more and more that the purpose of a bulletin is to communicate. And we hope that our bulletin is a good means of communication for LGMC. It also serves as a history of a club, so when certain items of service or noteworthy news are printed it is a matter of record, not just patting our own back.

Comments were made regarding type of printing used and cost of bulletins in general. Results of the contest proved that any form of printing used could win as there were winners using ditto machines, mimeograph machines, and offset press. It just goes to show one does not necessarily need expensive machinery to produce a good bulletin. You do need a good workhorse though and a lot of time, patience and perseverance.

Winners of the contest were:

General Bulletins:

- 1st...The Earth Science News, Mike Zacate, Editor Earth Science Club of Northern Illinois (Illinois)
- 2nd...The Geode, Willis D. Smith, Editor, McDonnell Douglas Gem & Mineral Soc. (Missouri)
- 3rd...The Pyriter, Willard Lamb, Editor, Dallas County Rock Club (Iowa)
- 4th...The Conglomerate, Ellis Courter, Editor Michigan Mineralogical Soc. (Mich.)
- 5th...The Rockpile, Mrs. Joyce Hanschu, Editor Midwest Min. & Lap. Soc. Dearborn (Michigan)
- 6th...The Prospector, R. E. Matych, Editor Muskegon County Rock & Min. Assn. (Mich)
- 7th...The Tulip City Conglomerate, Mr. & Mrs. R. V. Zigler, Editors Tulip City Gem & Mineral Club (Mich.)
- 8th...Rock Trails, Audrey R. Layman, Editor State Line Gem & Min. Soc. (Mich.)
- 9th...The Michigan Gem News, Leon Maxwell, Editor Michigan Gem & Min. Soc. (Mich.)
- 10th...The Opal, Mrs. Ruth Brandow, Editor West Suburban Lapidary Club (Ill.)

2 to 4 page Bulletins:

- 1st...Blue Ridge Gem, Carl Holsworth, Editor Blue Ridge Gem & Mineral Soc. (Missouri)
- 2nd...Agatypé, Jeannine Miller, Editor Blossomland Gem & Min. Soc., Inc. (Mich.)
- 3rd...The Pipestone Piper, Mrs. Harriett Paul co-editor with Mrs. Fern Hartman Northwest Wisconsin Gem & Min. Soc. (Wisc.)

LGMC was not in the winners circle this year with the Pick & Shovel however it scored 88 points out of 100 so we are right up there...just not quite good enough. There were 72 bulletins entered and Mrs. Leslie Pitts, of the Eastern Federation was judge. We'll try again this year.

Norma Miller, Editor

NATIONAL SHOW FOR 1972

Just across the street from the entrance to Disneyland is a huge Convention Center. This was the place chosen by the Searchers Gem & Mineral Society in Anaheim, California for the National Show and Convention June 29 through July 2, 1972.

The whole site was ideally suited for a large show such as this. There were several motels and hotels within walking distance as well as plenty of parking spaces for cars and trucks. However camping sites were provided about 10 miles from the Convention Center. Privately owned campgrounds were closer but the fee was somewhat higher.

The entire show, lecture rooms, swap area, and all meetings were under one roof. One huge room, 460 feet by 200 feet, contained the information booth, the club projects, all displays, special features, retail and manufacturers dealers, and a snack bar. A separate room was provided by the club for the wholesale dealers, the rock swap was in a room about 35 feet by 150 feet, and the very special Japanese Nagoya exhibit was in its own separate space. A relatively new feature, the Junior Awards Banquet, was held at LaPalma Park. Transportation from the show area to the park was furnished for this event. The practice of having a special recognition for the young people seems to me a worthy one and could well be included in all future shows.

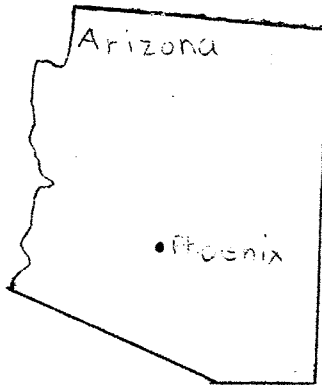
I visited the meeting of the delegates to the California Federation of Mineralogical Societies on July 1st. The reports and discussions were apparent as they are at any regional meeting. Many of their problems are the same as we in the Midwest are experiencing. I was introduced by Mrs. Darling who was serving as registrations hostess. The chairman was very kind and allowed me to speak a few words about our project for 1974 and about the fun things and the good facilities they can expect when they all plan their vacations and come to Lincoln for the big event.

I was especially interested in the workshop for show committees. This was a meeting of all the committeemen from this show, any other show, or any person interested in managing the affairs of a show. I gained some very valuable information by listening to them describe their problems and how they overcame them. These bits of guidance have been documented and will be added to our ever growing show manual.

I noticed the line of people waiting to buy tickets was nearly always there. My best guess would be that about 32,000 happy rockhounds and interested people passed through the doors during that spectacular show.

submitted by Ralph Ulrich,

(Here's a bit more info about the Anaheim Show via the AFMS Newsletter just rec'd.: The judging of the 228 competitive cases took some 16 hours of deliberations by the 53 judges from the 6 federations (with 40 clerks). 100 dealers were present. The budget set for this show was \$60,000. 85 editors attended the Breakfast. The most valuable exhibit was Ecco Homo, the head of Christ, carved from a single ruby crystal appraised at \$750,000 and the tiara appraised at \$35,000. Winner of Bulletin Contest was Martha Peters, Editor of the Petrograph of the Mineral & Gem Soc. of Castro Valley Calif. The top score of the show was 98 for the case in Open Div. A-2. The greatest number of scores 90 and over was made in the Division CC-cabs. Elected 1973 AFMS Pres. is Mrs. Walter (Katie) Steinbrenner, MWF, Des Moines, Iowa.) Ed.



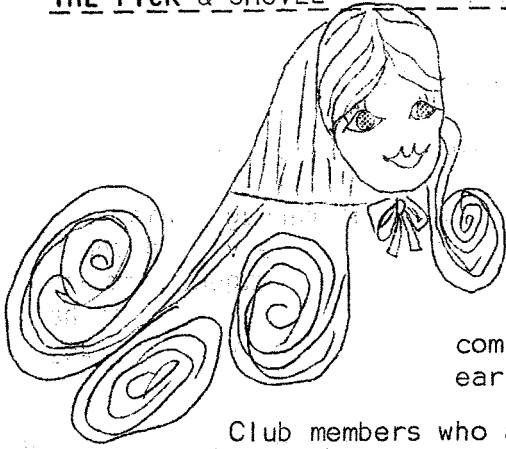
NEWS FROM ARIZONA

"Gems of the desert" was the title chosen by the Mineralogical Society of Arizona for the Rocky Mountain Federation Annual Show and Convention which they hosted June 23rd thru 25th, 1972, at the Veterans Memorial Coliseum in Phoenix Ariz. The show featured both Competitive and Non-Competitive displays. Forty Nine entries were judged by R.M.F. show rules and I understand that 45 awards were including two of the 9 available trophies. Special

features included a 41 Carat golden bronze diamond which was collected in South Africa and is valued at \$100,000. The Linde Star Castle was assembled with 3,900 industrial star sapphires and rubies. A flashy jeweled elephant was carved in Idar-Oberstein Germany. The gold howdah was adorned with 200 stones, rubies, emeralds, sapphires and diamonds. The elephant's tusks are white agate and have a gold tip. The nine inch high elephant was displayed by Lizzadro Museum of Lapidary Art. I particularly enjoyed this and all the other displays from the Lizzadro Museum as well as the unusual and the large gem stones loaned by the American Museum of natural history. Features and slide programs were offered throughout the day including such subjects as "the Lizzadro Museum" by Paul Desautels, "the American Museum of Natural History", "Minerals of Tiger," "a mine near Tucson Ariz.", "Minerals of the Desert" and "Minerals from Arizona in the Smithsonian". The awards banquet on Saturday night was held in a quaint place called "Bird Brown's Barn". The decorations were in early day tradition with a little humor thrown in. The speaker was Dr. Carleton Moore, director of the Center for Meteorite Studies at Arizona State University. His slide lecture was a description of the geological units from the moon---a very fascinating subject. I visited the meeting of the delegates on Saturday and noted that the secretary called the name of 12 Nebraska Clubs but no one was present or a delegate from any of them. The R.M.F. executive officers are starting to work on a tax exemption status for their federation like the one secured for the M.W.F. by Calvin George and others with foresight. Of course there were many other items of business brought up and discussed during the meeting. The future date of upcoming shows was one, I learned that the RMF Show and Convention will be held at Oklahoma City in 1973 and the combined National Show and RMF Show will be held at Denver Colo in 1975. No mention was made of a comittment for the 1974 RMF Show. A field trip by chartered bus to the huge St. Anthony Mine at Tiger near Tucson where more than 50 minerals have been reported was offered for 6 A.M. Sunday Morning. I did not include this trip on my agenda beaause at the time we were moving into a new apartment. I visited with our friends, the Floyd Olsons, the Claud Clary's and the Fred Day's during the show and they send greetings to their friends in Lincoln.

Ralph Ulrich

SOMETHING TO THINK ABOUT...If the earth's history could be compressed into a single year or twelve calendar months, the first eight months would be completely without life; the next two would see only the most primitive creatures. Mammals would not appear until the second week of December, and "homo sapions" until 11:45 PM on December 31st. The entire period of man's written history would occupy the final sixty seconds just before midnite! -from Defense Industry Bulletin via News Grinder & Rear Trunk



GLENNA'S GLEANINGS

Greetings - after the summer vacation.

Frank Rule reports he has been digging some nice rainbow obsidian in Oregon this summer, as well as attending that state's Prineville Pow-Wow and Thunderegg Days. Son, Tom, is at present on Okinawa but may be coming back to the States before Christmas and a possible early out.

Club members who attended the Lancaster County Fair were pleased and proud to see that each one of Marie Wells' 4H Pebble Pups had a case entered in the Geology category. Many exhibitors could learn a few good points from their well-classified and labeled displays.

Nebraska Mineral & Gem Club held their show over the Labor Day weekend at Omaha with ten dealers and many displays. Attendance was good, including many NAOESCI displays.

Kay Ulrich showed up for an evening at the LGMC Annual Swap in early August. Ralph was in Phoenix but sent regards to all. They plan to be back in Lincoln in October, Kay reports.

Rod Woodcock returned to Socorro, New Mexico on Aug. 25th for another term at the School of Mines.

Anyone who saw your reporter's spouse with a black eye this past month, please note I didn't do it!!! He ran into a steel window, requiring twenty-four stitches to put his eyelid back together.



Hal Janzen's pretty daughter, Peggy, was married on August 5th. That explains the absence of Hal & Darline at the swap here.

Former club member, sandy Uridil, helped at the University of Nebraska's Chadron excavation this summer, after which she and her mother departed for a trip to Alaska.

Helena Baegl had her usual fine lapidary exhibit at the Nebraska State Fair. Other club entries were the Irl Everetts where Lois won 1st for her rock picture, 2nd for a collection of Mexican agates and 3rd on cabachon jewelry. Congratulations, Lois!



Former members, the Larry Ruperts, were saddened this week with the passing of the Senior Citizen in their household. Sincere sympathy is expressed from those who knew and remember.

'til next time - Glenna McGinnis

REQUEST...Your field trip chairman is working out details on the trip to Arkansas in November (see field trip listings). At the meeting Sept. 23rd he would like some discussion and a commitment on the part of those who can and will make the trip. If enough people can make the trip - it's GO, MAN, GO... so talk it up.

REQUEST NUMBER TWO...to those of you who have library books checked out...please bring them to the September meeting. Kathy Grabher will receive them in the absence of Kay Ulrich, librarian. This is important so the library will be in order for the winter months ahead.

REQUEST NUMBER THREE...Remember DEADLINE October Pick & Shovel-October 10

LGMC WYOMING-LABOR DAY FIELD TRIP - 1972

Enthusiastic LGMC members meeting at Scottsbluff to participate in the Wyoming trip which preceeded Labor Day week-end were: Tom Simmons, Bob, Nelda & Jim Oliver, Dick & Dorothy Hornung, Larry VanCleave Lynn & Marie Wells, and Norma Miller. We were joined at noon by Allan Young of Kimball, Nebraska.. Our very able and cordial guide, Dan Mount of Harrisburg, Nebraska, along with his grandsons Gregg & Dan were ready and waiting before our scheduled 7 AM departure from Scottsbluff. The first day was full of really good collecting of quartz crystals, flint, and iron ore specimens at the Sunrise Iron Mine at Hartville. Hartville is a small mining town, the remains of what must have been booming back in the 1860's as we were told at one time the population there was 6-7,000 people with 1,000 of them being Greeks and 1,000 being Italians! Some of us viewed the hand carved back bar that had been made in Germany and brought directly to this town in 1864 by a German saloon keeper named Schlessler who took great pride in his heritage to go to such lengths as the bar had to be shipped by boat to New York and then across country by railroad to St. Louis and then by wagon train to Fort Laramie. During those booming days this town supported 11 saloons and all that went with it, card playing, dance halls, etc. Not far away we saw the results of much that went on there - Boot Hill. Legend has it that a player died during a card game once, and in order to keep four in the game the other participants dealt the dead man a hand each time and by the end of the game he had won enough to be put away nicely!! Witness Boot Hill.

The next morning near Guernsey we located an onyx excavation where everyone was able to collect as much as he or she wanted or could carry. It was interesting to see how the vein formed in the wall of the excavation. Marie Wells wanted to investigate an area around the bend but trip leader 'decided quickly' we had enough so we headed into town for lunch. This same morning we collected a few pieces of flint and then the rancher-owner led us to a pile of ore drillings and we each came

away with some core samples.

Early pioneers came through this area south of Guernsey and we viewed the Oregon Trail ruts made by the wagons that passed - what stamina those pioneers must have had to progress and survive such rugged travel!

We also viewed Register Cliffs where many of those pioneers had carved their initials and date while camping in the area during a rest stop. The Pony Express also was routed through here along the North Platte River.

A stop at Glendo Dam to look for jade slicks produced nothing but we did bring along one piece of material that everyone called petrified wood but Tom says 'no'. So we still have an argument going.

We proceeded to a ranch near Shawnee collecting agate and flint. Larry VanCleave and Dan Mount are very avid artifact hunters and collectors and both men came up with some fabulous finds. Larry seemed so thrilled with his finds he could infect most anyone within hearing distance with his enthusiasm. Of course, those interested in fortification agate had no complaints as many were found.

Pappy (C.Ray) Waddle joined our group at 7:30 Thursday AM, at Lusk, having spent the night on the bus from Lincoln. We headed for New Castle, Wyoming where we were fortunate to collect bacculite and other fossils in spite of the rain and proceeded on to Custer, South Dakota, visited some rock and mineral shops and verified arrangements for the next day's hunt. I had the thrilling opportunity to view an aquamarine crystal that weighed 12½ pounds! A complete crystal growth about 5 inches by 5 inches, from Brazil. Absolutely unbelievable to see so much gem quality material in one piece! The composition of the piece is still being studied and there is room to believe that the piece may actually be emerald!!!WOW.

On Friday, Sept. 1 our group increased
(continued)

WYOMING-LABOR DAY FIELD TRIP (cont'd.)

in number with the addition of Edith & Bill Holdorf, and Paul Hawkins and John Wells from Nankin, Ohio, who were acquainted with some of our group from the Keokuk trip. Time was not lost while waiting for the group to gather as we were able to view and appreciate the fine personal collection of Mr. & Mrs. Ken Spring of Kens Minerals. Items in their collection are fabulous, museum-quality specimens of fossils, minerals, agate, etc. One outstanding piece was a Japanese carved floral arrangement of jade and carnelian agate in a base of jadeite and rose quartz. Of course there was nothing wrong with the huge cycad or the LARGE ammonite, both of South Dakota origin.

Ken was our guide to hunt Tepee Canyon agate and was most pleasant and helpful, and thanks to his leadership those who didn't know how and what to do soon learned. By 3:30 PM a seam of Tepee Canyon had been excavated and everyone had some specs to take home. With all the weight already accumulated one wonders where to stash another 25-75 lbs.! But soon we are all weighed in and individually heading on to Fort Robinson for the Labor Day week-end.

Saturday AM we were joined by more LGMC club members. Phyllis & Jim & Linda Parks, Bob & Evelyn Smith, Norman & Sandy Balliet, and Wilfred Wittmann. Others were Bob & Carroll Anderson who will soon be LGMC members, a couple from Colorado who were relatives of the Bob Smiths, the Richard Ternes from Columbus, Nebraska, and the George Wells from Scottsbluff.

Finds in the following two days were many including the elusive Fairburn agate, chalcedony and selenite roses, petrified wood, turtle, oreodont, and rhinoceros bones and teeth. Lots of fun things happened as you can well imagine - Pappy was even caught drying dishes for Dorothy -(Marion, he really can dry dishes!)

We bid farewell to Dan Mount and his grandsons on Sunday afternoon. Dan has lots of energy and enthusiasm and we certainly appreciated all of his efforts on our behalf. We hope to keep in touch and see more of him

in the future. He is currently president of the club at Scottsbluff.

The Crawford club had invited the group to a pot-luck supper on Sunday evening at the shelter house in the park. There was lots of good food, desserts and coffee. It was a pleasure to visit with many of their members present: Mr. & Mrs. Earl McGuire, Mr. & Mrs. Claude Lewis, Mr. & Mrs. Lloyd Fluent, president, Mrs. Eli Wasserburger and Sandy, Mr. Lee Hallstead, Mr. Buster Wickersham of Harrison, Nebr., Carroll Kuhnel, editor, and Kenneth Adcock.

Most of the group headed back to Lincoln on Monday AM but those who went out again just one more time came back with some lovely blue agate.

Those who viewed the collection of Frank Barcal on Sunday evening saw some of the finest materials in the world from that area...he is a master at cutting and polishing and has a lovely display room. We appreciate his giving the time to explain and show us his lovely collection of which we only saw a small part.

I could not close this article without profusely thanking our field trip chairman, Tom Simmons, for his efforts. He is one GREAT GUY...never getting disturbed at the helplessness of women and eccentric people, always being cheerful and pleasant, and generous with his information, plus allowing many to place their loads in his truck for transportation! What would we do without him? We don't want to find out so hang around a good long while yet, will you Tom? Thanks.

- Norma Miller

Upon returning from the above field trip I opened the Crystal Gazette to find the following, hope you enjoy it too...

NOW I'VE SEEN EVERYTHING

I'm just a cowhand and don't claim to be no genius, but I ain't no dope either for I've been to Denver once, and twice to Juarez (that the town where you get the bare facts all right). What with the

(cont'd.)

NOW I'VE SEEN EVERYTHING (continued)

dust storms, gully washers, rattle snakes and them atomic gadgets riling up the cows, I figure that there ain't much in this land of Enchantment I ain't come across at one time or another. Well, I was wrong, and I'll tell you why.

About a week or so ago, I was over by Big Butte trying to find a stray doggie - just trotting along watching the horny toads and lizards, thinking of nothing but payday, when it happened - I came over a little rise and there below me was a sight that almost caused me to stick to pink lemonade from now on. In the middle of a cloud of dust, I spied a bunch of cars bouncing up an old logging road that didn't go no place, just stopped at a bare, dry, rocky hill. Them cars was full of the darndest lookin' human type beings you could imagine. Could be too much sun, I thought, so I shook my head and looked again. They was still there, stopped in a bunch like they was expecting an Indian attack. Doors banged open and out came kids, dogs, and creatures of all ages, sizes, and shapes. They was all poor from the looks of them patched-up clothes and every last one of 'em had a funny little pick thing in his hand & a sort of bag strapped on his shoulder. I figured maybe they was lunch bags, then I seen one female type person, with them short pants on, haul out a big lunch basket two gallons of water, a case of sody-pop, and a can opener and start fixing a fire for coffee. Some of the kids run over to the rocks and used them little picks to dig for worms. Them young-uns wouldn't ever find worms in a place like that, but it didn't make no never mind anyway because the nearest fishing was 30 miles west and a hard trip by horseback.

Up on a hill one of them fellows started yelling about a gee-oat. He sure talked funny, anyone knows they're called goats, but them other critters started running around hammering on rocks and breaking them open, then looking inside for little goats. They was laughing and shouting something fierce and every little bit one of them foolish souls musta' thought they had some caused they hauled rocks over to the cars and wrapped 'em up in boxes and run back to add to the horde. It was pitiful to watch.

They was almost blind too, and kept peering through little spy glasses so they could see anything at all. Even the younguns appeared to be afflicted with somethin' they was born with.

Over by the Butte, I seen a couple of them ragged, half-blind people, digging into that hill like they was tunnelling out of San Quinten. Rocks and dirt was flying in all directions and they had a hole big enough for a steer to walk into. One shouted something about galena - but I never did hear what that gal Lena done. Somethin' scandalous, you bet your bottom dollar, because a bunch gathered and was shaking their heads and raising a rukus spreading the gossip about the unfortunate female. All the time they was breaking up big and little boulders and then using them small glasses to see if they had hit anything. By this time I'm getting mighty curious. I first figgered maybe they was a bunch of inmates out for a picnic, but nobody seemed to be herding them and I noticed that all them poor, hundry, dim-sighted people are happy as anything.

They don't seem dangerous either. Every little bit, one of them stopped to wipe kids noses or pet one of the dogs, real kind like.

That coffee smelled powerful good, too, so keeping an eye peeled, I loped over close enough to shout "Howdy, Folks. W What brings you out this way?" Them people turn and look at me, with big grins showing through the dust on their faces, and yell back "WE'RE ROCKHOUNDS!"

-by Beryl M. Russell via the Uranium
Prospector and the Sand Script

To make a set of matched pieces for earrings or cufflinks, put a piece of paper between the two stones and then glue together with mounting glue. Now you can shape as desired in one grinding. A light tap will separate the pieces when finished.

Think Nebraska is the worst state in the country for hunting rocks? How about Arkansas...they only have one "Little Rock" in the whole state. (x1 Gazette)

For new members and old, and for our Pebble Pups, the following article by Norman Siegerman, as found in the "GEODE", should be enlightening. Hope you enjoy it, too.

MINERAL HARDNESS

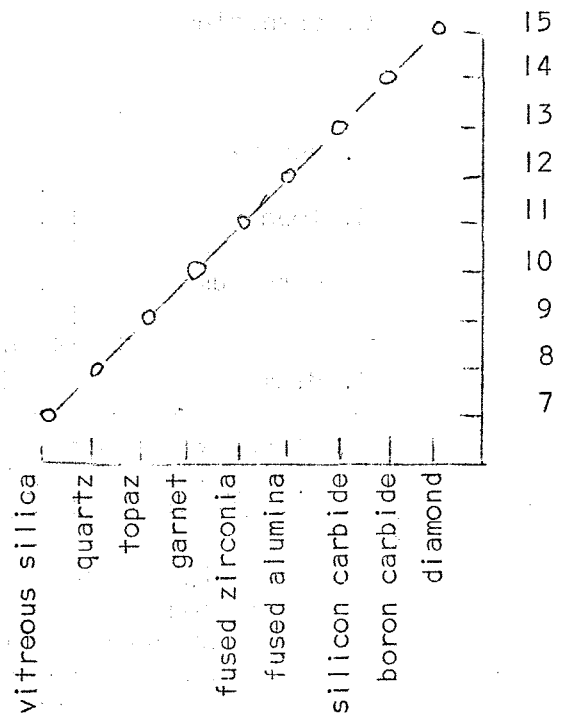
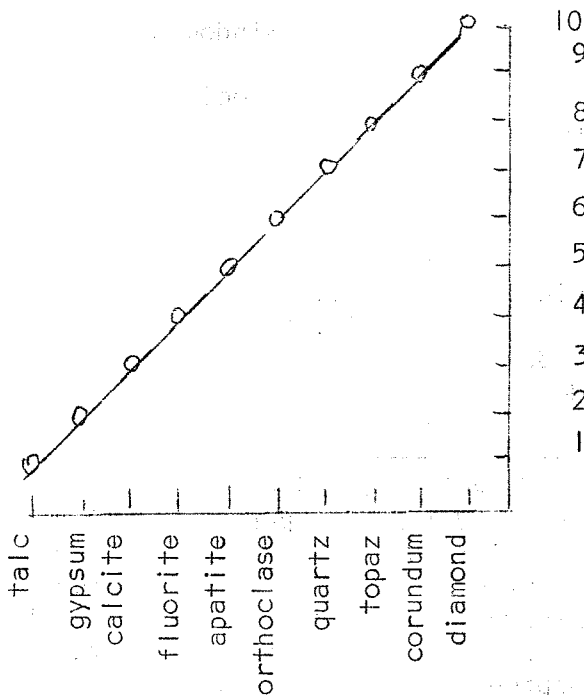
"It's as hard as a rock," expresses a common and appropriate notion of hardness. We usually consider wood to be much softer than rock, unless we inadvertently walk into an open door. Then we suddenly are hit by the feeling that even wood can be harder than enough. As a physical property of a material, therefore, hardness generally is understood in relative terms.

Mohs' hardness scale indicates hardness of minerals in relative terms, too. As shown in Figure 1, it assigns 10 degrees of hardness, ascending from 1 (softest) to 10 (hardest), to representative minerals. Mohs' scale is in universal use and is an elementary part of the technical vocabulary of mineralogists, gemologists, lapidaries, and rockhounds.

Figure 1. Mohs Scale of Relative Hardness*

Figure 2. Modified Mohs Scale *

* Based on data from Handbook of Physics and Chemistry, 51st Ed.



Unfortunately, the scale sometimes is misinterpreted or even used deceptively. As an example, an advertisement describes synthetic ruby and sapphire (corundum) as being next to 10 for diamond, but this hardly means that corundum is almost as hard as diamond or even close to it. As in the old-time carnival shell game, the advertisement hopes to divert our attention. It expects that we will not think directly of hardness as a measurable physical characteristic but rather in terms of scale numbers differing by arbitrarily equal increments. An analogy in more familiar terms may point out the fallacy of the misleading advertisement. If we arrange a scale of wealth for people, going through a range of 1 for pauper to 10 for millionaire, the richer among us may be surprised momentarily to find they are next to the millionaire

(continued)

MINERAL HARDNESS (continued)

on this relative wealth scale. In terms of actual wealth, however, they likely would recognize that the difference between them and the millionaire is much greater than between them and the pauper. We can understand, therefore, that the step between next to highest and highest can be disconcertingly wide, although this is hidden in a relative position scale.

Mohs' scale has been modified to incorporate additional hard materials, thereby extending the upper limit to 15. (Refer to Figure 2 and Table 1.) The scale still indicates relative standing and not extent of difference. Consequently, it offers little improvement over the original scale in regard to susceptibility to misconception.

Table 1. Relative Hardnesses *

Mohs Scale	Ridgway's Modification	Other Materials
1. talc 2. gypsum 3. calcite 4. fluorite 5. apatite		2.5 fingernail
6. orthoclase	6. orthoclase, periclase	5.5 window glass 6.5 steel (knife blade)
7. quartz	7. vitreous pure silica 8. quartz 9. garnet	8. stellite
8. topaz	10. topaz	
9. corundum	11. fused zirconia 12. fused alumina 13. silicon carbide 14. boron carbide	11. tantalum carbide 12. tungsten carbide
10. diamond	15. diamond	
*From Van Nostrand's Scientific Encyclopedia, 4th Ed. Note reversed position of garnet and topaz compared with Figure 2		

For numerous industrial, engineering, and scientific purposes, more precise data on degree of hardness is needed than is provided by Mohs' scale. Such information is needed not only on the hardness of natural minerals but on the hardness of fabricated metals, glasses, ceramics, rubbers, plastics, refractories, abrasives, etc. As can be expected, there are hardness tests more appropriate to some materials than to others, and so we hear of hardness scales such as Bierbaum, Brinell, Eberbach, Knoop, Monotron, Rockwell, Scleroscope, Tukon, and Vickers. The various tests entail precise measurements and techniques; consequently, they are better suited to the laboratory than the field. Published results are available, fortunately, and those of Vickers and Knoop testing should be particularly interesting to anyone concerned with mineral hardness.

These latter two determine relative hardness by pressure penetration. A diamond indenter in the form of a small pyramid (square base in Vickers test and rhombus base in Knoop) is pressed into the test material, the pressure load on the diamond is recorded, and the indented lateral area is measured by microscope. The hardness index

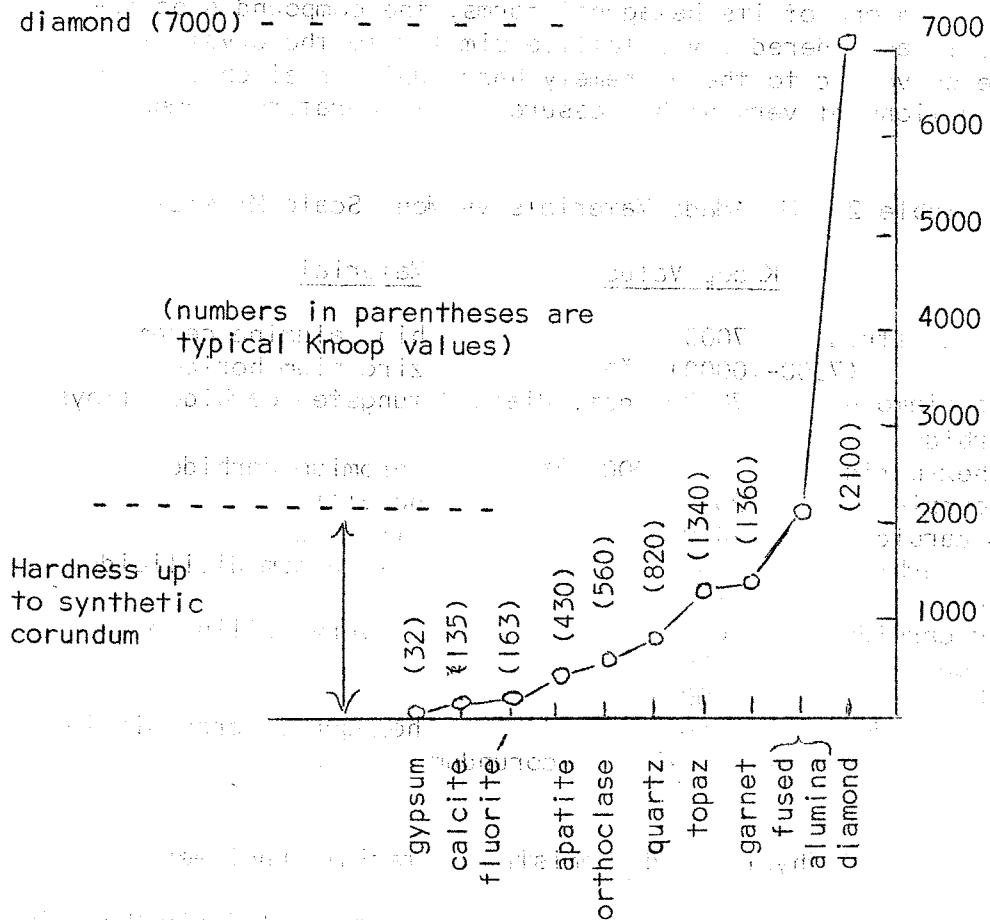
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MINERAL HARDNESS by Norman Sigerman (continued)

in the Vickers test is obtained from the equation $V=p/0.539d^2$, in which V is the hardness number, p is the load (in kilograms) imposed upon the diamond indenter, and d is the diagonal of the indentation (in millimeters). The hardness, therefore, is indicated by a pressure intensity in kilograms per square millimeter of indentation.

As an illustration, Knoop hardness numbers are shown in Figure 3 for most of the minerals of Figure 1. We can see here that corundum again is next to diamond, but the extent of the difference between them demolishes any misleading implication of "next to diamond in hardness." What is made obvious with this scale is that the difference in hardness between 9 and 10 on Mohs' scale is much greater than it is between 1 and 9.

Figure 3. Knoop Hardness Scale



For perspective in judging the relative hardness of naturally occurring minerals, the hardness of materials other than those of Mohs' scale will be shown. Knoop values are used because they are readily accessible. It should be mentioned first that the hardness value of a material may vary with the different laboratories reporting it. The National Bureau of Standards, for example, has published somewhat lower values for the harder materials than given by other sources. The variation in data is due to many factors, some of which may be variation in the actual hardness of the material tested; variations in the measuring instruments, conditions, and techniques; and variation in the hardness of the diamond indenter itself.

(continued)

MINERAL HARDNESS by Norman Siegerman (continued)

It is not unusual for a single crystal of diamond and other minerals to be harder in one plane than another. In addition, a mineral may vary in hardness according to its origin. This is exemplified for diamond by the following interpolated numbers on the Mohs' scale. *

South American bort	10.00	Congo clear white cubic crystals	9.95
South American Ballas	9.99	Congo gray opaque cubic crystals	9.89
Congo yellow cubic crystals	9.96	South American carbonados	9.82

* from Materials Handbook

With these cautions in mind we can examine the typical Knoop values for various materials shown in Table 2. One of the materials, boron nitride, is noteworthy in having characteristics analogous to those of diamond and graphite, the crystalline variants of carbon. In one of its hexagonal forms, the compound's boron-nitrogen molecular rings are in an ordered layer lattice similar to the crystalline structure of graphite. It can be converted to the extremely hard cubic or zincblende form (called borazon) under conditions of very high pressure and temperature, somewhat as used to synthesize diamond.

Table 2. Man-Made Materials vs Mohs Scale Minerals *

<u>Material</u>	<u>Knoop Value</u>	<u>Material</u>	<u>Knoop Value</u>
cubic boron nitride	7000	high alumina ceramics	1750
(7300-10000) **		zirconium boride	1560
synthetic diamond	7000 ↵ nat. diamond	tungsten carbide alloys	1400-1800
boron carbide	2800	↵ topaz, garnet	
various hexaborides	2700-3000 ***	chromium carbide	1300
silicon carbide	2500	beryllia	1250
titanium carbide	2460	zirconia	1160
beryllium carbide	2300	molybdenum disilicide	1065
fused alumina	2100	↵ quartz	
zirconium carbide	2090	polycrystalline glass	700
tantalum carbide	2050	↵ orthoclase	
silicon boride	2000	apatite	
tungsten carbide	1880	hexagonal boron nitride	300
	↵ nat. corundum	↵ fluorite, calcite	
		gypsum, talc	

*Hand book of Physics and Chemistry, Materials Engineering, and as noted

**N. E. Filonenko et al, Morphology of Crystals of Cubic Boron Nitride. Soviet Physics - Doklady v. 10, no. 10, April 1966

***J. J. Stiglich, Jr., A Survey of Potential Ceramic Armor Materials. Army Materials and Mechanics Research Center, March 1968

Since the introduction of borazon by R. H. Wentorf, Jr. (1957), it has been studied for several applications (ceramic armor, semiconductor, dielectric, etc.). To obtain crystals with properties specific to the desired use, as well as to initiate crystal nucleation at less costly lower pressures, the boron nitride is doped with traces of

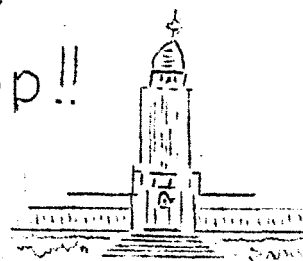
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MINERAL HARDNESS by Norman Siegerman (concluded)

other elements such as sulfur, tin, lead, antimony, and alkaline-earth and alkali metals. Very small simple and twinned crystals in various shapes have been made, with a color array of white, gray, brown, black, deep red, dark blue, and yellow.

Any hopes by lapidaries that borazon will replace diamond as a superior inexpensive abrasive must be in vain, as was the hope that synthetic diamond would replace the natural. This pessimism is based upon the news that a small borazon slipstone (3½ inches by ½ inch by 1/16 inch), used for industrial tool honing, sells for \$77. Even boron carbide, which is harder than silicon carbide but much softer than borazon, is sold at two to four times the price of silicon carbide in comparable form.

Table 2 is far from being a comprehensive list, but it is accurate in indicating that man has created many materials in the very high range of hardness. Many surpass the hardest of all naturally occurring minerals except diamond. Synthetic diamond and cubic boron nitride are as hard as natural diamond, and cubic boron nitride may exceed it. Until cubic boron nitride or yet-to-be discovered hard materials come into more general use, synthesized and natural diamond will continue to be considered the pre-eminently hard mineral.

via THE GEODE

UPDATE ON ACTIVITIES FOR THE HOBBY by busy LGMC member TOM SIMMONS....within the last six months he has appeared at four different District Boy Scout Roundtables and gave lectures in geology helping the boys earn their merit badges. At least ten different Cub Scout groups have toured his rock shop and learned about the lovelies stashed there. And Tom was the wagon master on field trips taken by two scout troops earlier this summer. In addition he has plans in the making to lead two ninth-grade classes to the Holmesville area for mineral collecting. This is through the Lincoln Public School System and they will travel by city bus. (Keep up the good work, Tom, in keeping these young people interested.)

(NOTICE: Your editor cannot keep up with all the activities everyone is doing in this regard....please help out by reporting to me regularly whatever you have done in the way of boosting our hobby. We would like it in the record and you can help by keeping me informed. Ed.)

ITEMS OF INTEREST...

Dr. C. BERTRAND SCHULTZ, director of the Univ. of Nebr. State Museum and Mrs. Schultz this summer returned from an international meeting of scientists held in the Soviet Union. He set up an exchange agreement: two mammoth teeth found in Nebraska for some hair from a woolly mammoth discovered frozen in Russia.

JUNE CULP ZEITNER writes that South Dakota welcomes gem and mineral collectors and tourists interested in geology and the earth sciences. The early fall months are usually beautiful there and it is a favorite collecting season for local collectors. The National Grasslands areas are open to earth science hobbyists. Some of the Grassland sites are near Kadoka, Weta, Interior, Conata, Scenic, and Wall, with the Buffalo Gap National Grasslands headquarters at Wall. Feel free to write to any of the clubs listed in the Rockhound Buyers Guide, or to the South Dakota Travel Section of the State Highway Department for more information. In spite of the flood early this season you are welcome and accommodations are available. Don't let them down in their time of need...it is still a beautiful part of the country.

NEW EDITOR for AFMS Newsletter is Russell MacFall, Evanston, Illinois.

PLEASE READ the MMF Newsletter included in your Pick & Shovel each month. You will get all kinds of interesting information, for instance...the Lincoln, Nebraska club sent the most cabochons for the AFMS Smithsonian collection...now see you might have missed that if I hadn't reminded you to read the newsletter.

MMF Officers for the year 1972-73 are: Lee M. Kirby, Drayton Plains, Michigan, succeeding current president Barney Parr of Mansfield, Ohio. Mark Harris, first vice-president, of Columbia, Missouri. Terry Huizinga of Cincinnati, Ohio, second-vice-president. Jean Reynolds, secretary, of Clarendon Hills, Illinois. Bernice McCloskey Treasurer, of Elm Grove, Wisconsin. And June Zeitner and Evelyn Hirsch were elected to the nominating committee.

Other NEWS...Ewald and Luella Paul have returned home after a 27 day vacation to Louisville, Kentucky where they visited the Mammoth Cave, Churchill Downs, and President Lincoln's birthplace. While visiting relatives in Chicago they visited the Lizzadro Museum in Elmhurst, Illinois. They also enjoyed the beautiful States of New York and Vermont, but they were disappointed in the diamonds Ewald found at Herkimer, New York. They also visited their son who lives in Milwaukee, Wisconsin.

DEADLINE FOR OCTOBER BULLETIN...10th of the month...

EXCHANGE BULLETIN EDITORS...keep 'em coming...your bulletins are all read and enjoyed--some even copied. And sometimes I just wish it was I that thought of the original.

Poem by Nellie Morgan of Miami Okla via

SW Kans. Gem & M.-Slab & Gab
Rocks on the lawn, rocks in the shed
Shovels and hammers under the bed.
Boots and knapsacks beside the door,
Clay and grit all over the floor.

Slabs and specimens on the chairs
Boxes of crystals on the stairs,
A Rockhound's home is a disgrace--
But, Oh, it's such a Happy Place.

HINT: Try using chrome oxide when polishing Apache Tears. It's a lot faster.

TO CLEAN QUARTZ XLS...AMETHYST, TOO...
cover them with fresh vinegar to remove the carbonates, allow to stand overnight, repeat if necessary. Wash well, then place them in washing type ammonia for 8-12 hours. Remove, rinse, wipe, and air dry.

Kyana Gemscoop via Strata Data & Slab & Gab

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. 127 - September 1972

Editors, Watch Out

Please be careful in copying articles as some are not based on fact. Just because a club's bulletin or a newspaper published it does not make it so. Consult with those more experienced.

A recent example is the one claiming that space scientists had found a "day missing in space in elapsed time". We have a letter from NASA denying it. Another claimed that wonderfully worked artifacts (tools, etc.) were found embedded in igneous (granite) rocks. No museum has any of these artifacts. Another claimed that just stirring a silica gel from a quarry in Arkansas produced quartz crystals in a month. Quartz crystals require high pressure and high temperatures to form. Another fiction that "pops" up often is the finding of "Atlantis" in the depths of the Pacific and Atlantic oceans. The intensified explorations of the ocean floor are showing this is nonsense.

Many lapidary hints and tips appearing in the bulletins are of little, or no value as they are apparently beginners notions but they do not do the harm the fictitious articles do. - Howard Knight

Rock Show For The Blind

The Central Michigan Lapidary and Mineral Society sponsored a rock show at the Michigan School for the Blind in Lansing, Michigan. Special specimens were used to illustrate various crystal forms, common minerals, fossils, oddities in stones in shape, taste or smell, and items to show what a rockhound does with his stones, such as lapidary work in cabochons, spheres, faceting, tumbling and even carving.

A total of 68 specimens were placed on 8 1/2 x 11 sheets of paper with 3/4" high printed labels and also brailled labels, and were laid out on six long tables. Over 75 students came to see, feel, taste or smell, and were completely fascinated by the wonders of rocks.

Jim and Bettie Patterson, chairmen of the show, and their fellow workers were kept busy answering questions from the steady flow of interested and enthusiastic students during the afternoon and evening. (Bettie is an MWF Assistant State Director for Michigan, as well as

New Program

Our Program Chairman, Mrs. Evelyn Hirsch, announces a new library program prepared by the Geology Committee of the Midwest has been added to the Program Service. The program is in two parts. Part 1 is titled "Introduction to Reading Topographic Maps (35, 35mm slides). Part 2 is titled "Introduction of Reading Geologic Maps (21, 35mm slides).

The program is available for immediate booking. When you order, ask for "Map Reading" and send your order directly to Mrs. Evelyn Hirsch, Route 1, Mitchell, Indiana 47446.

Liaison Representative for her club.)

As each student was ready to leave, he was given an opportunity to take with him a tumble-polished stone and a piece of "Fool's Gold". Jim and Bettie report they have received so many wonderful thank-you notes in braille or printed from these handicapped students, and because the show was so well received and so rewarding to all, they hope other clubs will follow suit and attempt something similar. -Reported by Bettie Patterson

WELCOME A NEW CLUB

SKEENTAT ROCK AND MINERAL CLUB
Mr. Harold Rouff, President
Route 2, Lake White
Waverly, Ohio 45690

WELCOME A NEW INDIVIDUAL MEMBER

Mr. Edward C. Bassett
139 Fairview Avenue
Decatur, Georgia 30030

HELP ELIMINATE LITTER

THE 1972 CONVENTION AND SHOW

The 1972 Field Trip Convention was a big success as judged by the enthusiasm expressed by participants. The Ishpeming Rock and Mineral Club and Chairman Bob Markert did a superb job in organizing the various activities. The 5th annual Upper Peninsula Gem and Mineral Show held concurrently added to the convention and field trip as did the auction on Friday night and the big swap on Monday.

The weather cooperated on the two big field trip days and from the appearance of the sacks put on the trucks accompanying the busses we think everyone got all the material they could use.

The banquet on Saturday night was a most enjoyable affair and was very well attended. Bernice Rexin, Past President of both MWF and AFMS was the speaker and had a fine message.

President Bernard Parr presented the AFMS Scholarship Award Winners Plaque to Dr. C. Bertrand Schultz of the University of Nebraska. Dr. Schultz announced that after the selection of the student had been made it was learned that Miss Mary Ann Turner, the recipient of the Scholarship Grant had with her family long been a member of the Indiana Geology and Gem Society and had in the past saved coupons for the Scholarship Foundation.

SLATE B,

one of two offered by the nominating committee, was elected unanimously. The new members are June Zeitner and Evelyn Hirsch.

MRS. MERTON YOUNG

We regret to announce the death in July of Mrs. Gladys Young, wife of Merton Young, Past President of the Federation. The Federation expresses its sympathy to Merton. We are sure that he would appreciate hearing from his many friends. The address is Michigntown, Indiana 46057.

APPOINTED ASSISTANT STATE DIRECTORS

In Missouri - Mrs. Charles (Anna) Noel, 10224 E. 55th street, Raytown, Mo. 64133.

In Ohio - Mr. J. Robert Little, 738 Saratoga Ave., Newark, Ohio 43055.

OMITTED FROM DIRECTORY

the name of Mrs. James D. Patterson, 14933 Brown Road, Lansing, Mich. 48906, an assistant State Director for the state of Michigan.

AFMS BIRTHDAY PARTY PARTICIPANTS

Were you among the many taking pictures at the activities in Washington, D.C. connected with the 25th Anniversary of AFMS? If so, would you help the Federation by sending us duplicates of your best slides for a program about the celebration to be duplicated by the Regional Federations for club and show use? Please mail your duplicates at once to Kay Jensen, 199 East Brook Road, Pittsford, New York 14534. We need your help and appreciate it. - June Zeitner, AFMS Silver Anniversary Committee

AFMS CABOCHON REPORT

The Midwest led all other Federations in sending in cabochons for the AFMS Smithsonian collection. Of the nearly 1300 cabochons 375 were sent by clubs and individuals belonging to the MWF. Not only that but when it came to decorating the cake in Washington, D.C. it was mostly Midwest people who volunteered to help me. Among those trimming the 250 pound, 5 foot tall cake in the Smithsonian were Jean Reynolds, Secretary of the MWF, Mrs. Reynolds, her mother, Mrs. B.F. Parr, wife of our MWF President, and Mrs. Harold Detty. Also there to see what they could do were the Dahlbergs from Minneapolis, and Tolson Radloff from Michigan.

Since 100 cabochons were retained to show at the National convention at Anaheim, and since other cabs are still coming, lapidaries who have not sent in cabs will have until November 1 to send their cab for the Silver Anniversary Collection of the Smithsonian. Especially needed are cabs of gem materials other than quartz. Of quartz gems the most needed are the crystalline varieties. Cabs can be any size and shape. Be sure to include name and locality of material as well as club or individual name and address. Mail to June Zeitner AFMS Cabochon Chairman, Mission S.D. 57555. All cabs will be acknowledged and names of donors will go on permanent honor roll.

The Lincoln, Nebraska club sent the most, and Ohio Flint and Missouri Mozarkite were about even for number submitted of a single gem material. Well cut stones from each state topped the cake. This list will be printed in a later issue of the Newsletter. - June Zeitner

SCHOLARSHIP

Our Scholarship Chairman, Katharine Steinbrenner, reports that she had received by June 15 over 21,000 Betty Crocker coupons. An additional 13,000 had been received in July together with \$465.00 in cash.

NEW EDITOR FOR AFMS NEWSLETTER

Russell MacFall, Evanston, Ill. has been named the new editor of the American Federation Newsletter.

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

REGULAR MEETINGS: 4th Saturday of the month, 7:30 PM, September through May
W. O. W. Bldg., 732 S. 27th St., Lincoln, Nebraska

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

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1st Vice-Pres. - Roger Pabian, 300 Sycamore Dr., Lincoln, NE 68510 489-3081
2nd Vice-Pres. - Ralph Ulrich, 3909 Pace Blvd., Lincoln, NE 68502 423-0419
Rec. Secy. - - - Luella Paul, 3097 U St., Lincoln, NE 68503 477-2347
Treasurer - - - Pam Dutcher, 5343 Cooper, Lincoln, NE 68506 488-0610

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Jim Parks, 2435 S. 19th St., Lincoln, NE 68502 423-6798
Tom Simmons, 2970 South St., Lincoln, NE 68502 488-1619
Howard Taylor, 910 New Hampshire, Lincoln, NE 68508 432-3707

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Community Arts Council Rep---Rev. Raymond Pfeiffer, 8101 Sandalwood Dr. 488-1784
Alternate---
NAOESCI Reporter---Norma Miller, 931 Cottonwood Dr. 489-8849

1974 SHOW STEERING COMMITTEE

Chairman - Ralph Ulrich Financial Chmn - Bruce Simon
Sec. & Show Director - Irl Everett Member-at-large - Howard Taylor

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.

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

EDITOR: Norma Miller, 931 Cottonwood Dr., Lincoln, NE 68510 489-8849
ASST. EDITOR: Phyllis Parks, 2435 S. 19th St., Lincoln, NE 68502 423-6798
Editors members of N.A.B.E.

Lincoln Gem & Mineral Club
Box 5342
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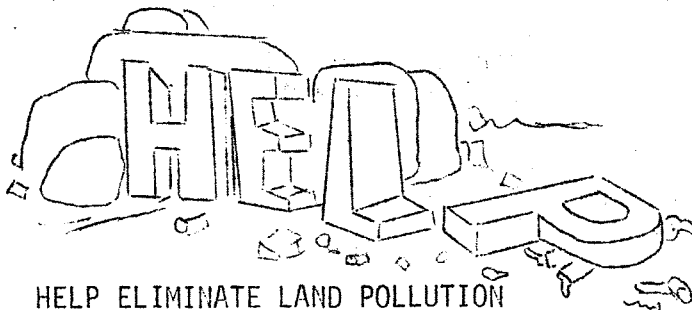


Member: Community Arts Council

LGMC Historian
3601 South St.
Lincoln, NE 68506

"THE PLACE TO GO IN 74"
Nat'l Gem & Mineral Show
June 13-16 Lincoln, Nebr.

LINCOLN GEM & MINERAL CLUB ANNUAL SHOW, May 12-14, 1972, Fairgrounds, Lincoln, Nebr.
NEBRASKA STATE SHOW - April 13-16, 1972, Hastings, Nebraska
MWF FIELD TRIP CONVENTION - July 20-24, 1972, Ishpeming, Michigan
THE KEY TO PROGRESS-'COOPERATION' - Barney Parr, MWF President 1972



LINCOLN GEM & MINERAL CLUB - HOST
combined

MWF - AFMS NATIONAL SHOW & CONVENTION
and
NEBRASKA STATE SHOW

JUNE 13-16, 1974, LINCOLN, NEBRASKA