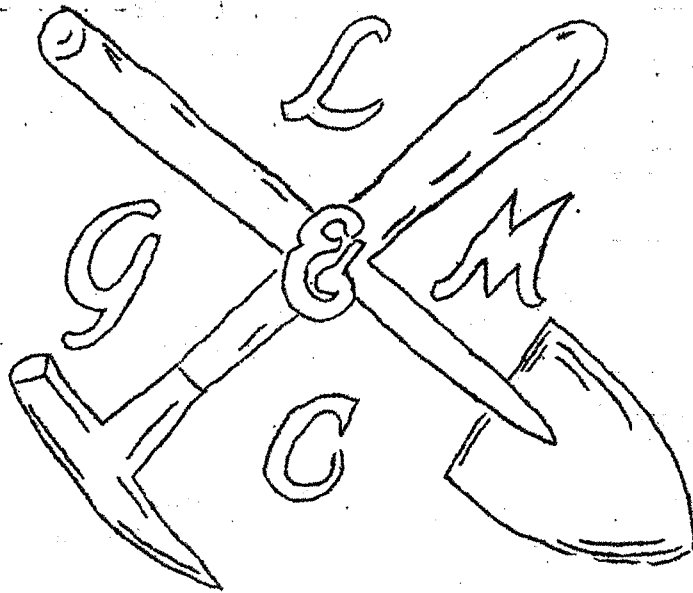


THE PICK & SHOVEL



L I N C O L N G E M A N D M I N E R A L C L U B , I N C .

Lincoln, Nebraska

OCT 1969

October Meeting Date and Place changed.
this month only.



Date - Saturday, November 1, 1969, at 7:30.

Place - Van Dorn Park Shelter House -access is at 8th and Van Dorn for ample parking. This is a new facility entirely enclosed, cement floor, a huge fireplace at either end, blowers to circulate the heat. It has been planned to seat 200 for picnics with plenty of electric outlets to accommodate our refreshments and program. Sports attire desirable.

BUSINESS: Show reports
Nominating committee report

PROGRAM; Trip to the Mesa Verde!! Home of the Cliff Dwellers.
Presented by Mr. Wm. Hendrickson

--Florence Boring, Program Chairman

(Organize and sort your slides of the Fed. & Nat'l shows as we would like to show them for the Nov. Program.)

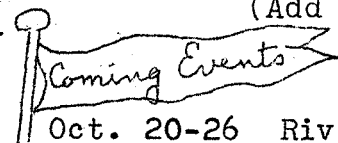
REFRESHMENTS: Delilah Rankin, Barbara Allen, Ralph & Kay Ulrich,
Everett & Ruth Weber, Frank & Ruth Krejci, Lawrence & Viola VanCleave.



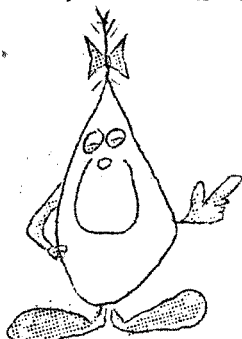
GUEST LAST MEETING: Carol Zier

ROOM 104: Morrill Hall will be open every Friday night instead of Wednesday night as reported last month.

NEW MEMBER: Wayne & Barbara Fleming, Kevin & Kenneth
Rt. 8, Lincoln, NB 68506. Ph 488-8486
(Add these to your Who's Who)



- Oct. 25-26 Grant County Gem & Mineral Show, 4-H Fairgrounds, Marion, Ind.
- Oct. 20-26 River Valley Rockhound Club Show, Fort Dodge, IA
- Oct. 25-26 Oklahoma Mineral & Gem Soc. Show, Oklahoma City, OK
- Oct. 25-26 Hutchinson Gem & Mineral Soc. Show, Hutchinson, KS
- Nov. 1 Ft. Smith Rock Club Show, Ft. Smith, Ark.
- Nov. 1-2 Chanute Gem & Mineral Soc. Show, Chanute, KS
- Nov. 8-9 Antique Bottle Show & Sale - Nat'l Guard Armory, Lincoln
- Nov. 8-9 Silvery Colorado River Rock Club Show, Bullhead City, AZ



REMEMBER ... change for Oct. meeting

PLACE = VAN DORN PARK SHELTER HOUSE
(see directions above)

TIME = Saturday, Nov. 1, 1969, 7:30 PM

SAVE GENERAL MILLS COUPONS----AFMS SCHOLARSHIP FUND

SAVE COMMEMORATIVE STAMPS ----AID REFUGEE CHILDRENN

LAST MONTH...A special meeting was called on Sept. 13th as the regular meeting night fell on our Show date. Reports on the Show were given by chairmen of the various committees. It was reported that Dr. Neihardt had received the '69 Award of Honor given by "Wisdom Magazine" and encyclopedia. Those elected to serve on the nominating committee were Tom Simmons, chairman, Roger Pabian and Norma Miller. There were 61 members present and one guest. The Wayne Fleming family were welcomed as new members.

room 104...7:00 to 9:30PM Fridays 1969-1970 session - Once again we are given the opportunity of working with or learning to work with fossils through the courtesy of the University at Morrill Hall. There are lots of things to be finished and new things waiting to be tackled. Come join in the fun any or all of the Friday evenings. This year we are using the East entrance and parking has been easy. It is necessary to use other streets besides 14th if you wish to get close. We are very fortunate in that we have Charles Messenger to advise and assist us. The coffee pot will always be on.

The first sessions found Nelda, Bob and Jim Oliver, Jan & Gene Eno, Vi & Van Van Cleave, applicants Kip & Evelyn McEwen, Jim & Phyllis Parks, and Norm Engelhart joining with
Ye Olde Digger - Dotty Engelhart

sculpture...City Recreation has a new group on Tuesday evenings at 23rd & O Sts., 2nd floor, featuring clay and stone sculpture. Among those eager artists attending were Marion & "Pappy" Waddle, Myrtle Young, Dotty Engelhart, Nelda Oliver, Gene Eno, and hopefully Helena Baegl.

AJMS...announced at the Show in Salt Lake City, the students who will receive the 1969 Scholarships (made possible by those Betty Crocker coupons turned in) as follows: Alan Edwards, Anchorage, Alaska
A fourth student is yet to be announced. Byron Ristant, Tacoma, Wash.
Robert Rich, Cambridge, Mass.

free...copies of a booklet entitled "The Wyoming Rockhunter's Guide" can be obtained by writing the Wyo. Recreation Commission, P. O. Box 309, Cheyenne, Wyo 82201, or order from Louis C. Steege, 118 E. 2nd Ave., Cheyenne, Wyoming.

SWAP CORNER

WANT TO SWAP...

Michigan Konodolomite...
Verde Antique Marble...
Jaspelite...

Contact-Wayne Fleming, Rt. 8,
Lincoln, NB 68506, ph 488-8406

A NEW FEATURE in our P & S has been requested and we are trying it for the first time for a new member.

If you wish to take advantage of this corner phone Editor - 489-3956, or mail your information to her at 931 Cottonwood.

Deadline for Nov. bulletin is Nov. 5.

NOTES FROM A SHOW CHAIRMAN

There are so many things that are necessary to have a successful lapidary show. We had them all. First you must have a successful past. Many thanks are due to the past 10 presidents and show chairmen.

Second, you must have people who are willing to accept the challenge of making a better show. We had these people.

You must have people who are willing to work without receiving public recognition. The success of our '69 show depended on them. We had nearly 30 of these people.

I felt very humble when I asked talented people to do a small job then watched the big, beautiful job they did.

Thank You for doing such an outstanding job for our hobby. Many people enjoyed the efforts of your work.

-- Lloyd Lederer, Show Chairman

A THANK YOU NOTE: I wish to thank those wonderful people who donated their time to help me with the guest book so I could spend some time with our company from Kansas. Thank you very much.

Hospitality Chairman - Judy Weber

PLEASE

It looks like this year will be a record year for Advance Ticket Sales but we won't know until all money collected for advance sales is turned in along with the unsold tickets.

Jerry Kohn asks that you get the tickets or the money to him so he can close out the books. Those of you who have not already done so may mail them to him: Jerry Kohn, 1321 O St., Lincoln, NB 68508 or bring them to him at that address.

BOUQUETS & ROSES...The combination of beautiful weather, Band Day Parade, football game, and LGMC gem and mineral show made the number of people in Lincoln swell by the hundreds. The guest list shows that 66 towns and cities from Nebraska were represented. Also, persons from 15 other states, Canada and England.

Each year various people put forth the effort to give our hobby a good showing and this year was no exception. Whether you were a viewer or a participating member, again it was a successful show. By actual count 214 cases and special exhibits were on display, in addition to the working-teaching exhibits. Not to be forgotten or ignored were the black-lite room, the slide lectures, the special features, the moonrock pictures so recently released by N.A.S.A., etc. To name them all would be repetitious.

The experience gained from this and previous shows makes each succeeding show that much better. To those who were a part of this success "our congratulations."

FOOD FOR THOUGHT: If you expect to profit by your mistakes, you have to be busy enough to make some.

READING THE NEWS...When scientists opened "Pandora's Box" from the moon they found black silt, and stones ranging from gravel-size to orange-size. One of the scientists observing the box opening said the xls "look like a light mineral and some have a pinkish glaze." Indications were that the rocks were molten at one time and apparently cooled quickly. Also, tests of moon material "indicate that the geochemistry of the moon shows interesting differences from that of earth. Chemical tests of moon dust show it has about 40 chemical elements, a low alkali content, and no marked degree of iron or chondritic meteorites. These are characteristics often found in hardened lava and these findings add weight to the theory of volcanic action existing on the moon. Shuddering signals heard by the mechanical ear left on the lunar surface by the astronauts indicate the moon has an outer crust of 12½ miles thick.

KAB (KEEP AMERICA BEAUTIFUL) reports - ROCKHOUNDS REWARD...the 17,000 member California Federation of Mineralogical Societies (Rockhounds) were presented recently with 15,000 litterbags by the Continental Can Company - the West Coast group spends afternoons on trips collecting rock specimens; mornings picking up litter.

-from the desk of Frank Marsh

MARS...seems more earthlike than any other planet. The Martian day (24 hours and 37 minutes) and the tilt of its axis (about 24 degrees) strikingly resemble those of earth. The climates therefore are somewhat similar though Martian nights are much colder.

OLD FISH...Niobrara - the skelton of a fish, thought to be several million years old, was found in the dry Ponca Creek 14 miles west of Niobrara. The fossil was identified as an osteichtyestelosts, 43 ins.

HEAVENLY ATTRACTION...this month...Orionid Meteor shower, reaching its maximum on the 21st, per NU Mueller Planetarium staff. Best hours to observe the meteors will be between midnight and dawn.

WORLD'S FIRST CONFERENCE of astronomers was held in the year 503AD by Mayan Indians savants at Copan, on the Yucatan Peninsula, so say Mexican historians. Sixteen Mayan astronomers attended the conference, which was recorded in stone carvings on an altar.

WORDS OF WISDOM

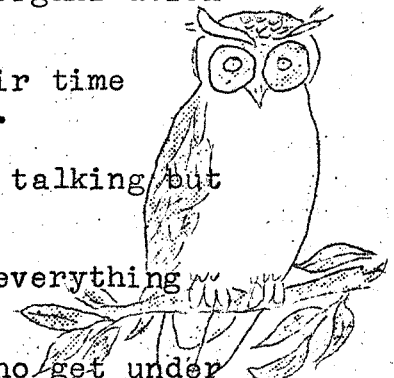
Someone has said membership in every organization is made up of four kinds of bones.

There are the wishbones who spend their time wishing somebody else would do the work.

There are the jawbones who do all the talking but very little else.

Next come the knucklebones who knock everything everybody else tries to do.

And finally there are the backbones who get under the load and do the work.



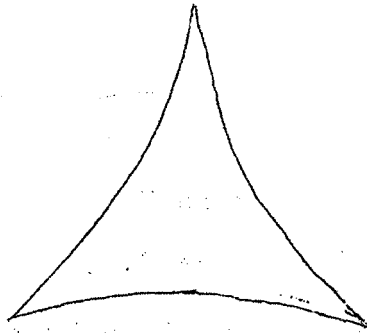
-contributed by Frances Tracy

FREE FORM OR ACCIDENT - PART II by Roger Pabian

In the August issue of the Pick & Shovel, the readers were left with three unknowns to solve. No formal knowledge of mathematics is required to produce the forms in question, but a bit of insight into the mechanics of circles is quite helpful. The mathematical functions that express the unknown shapes, and the names of these curves, that were given in the last issue will be given for the benefit of the interested reader but they need not be memorized.

Figure 2d

The epicycloid



Assume we have a circle of radius R and a smaller circle of radius 1/3 R, as in Figure 6

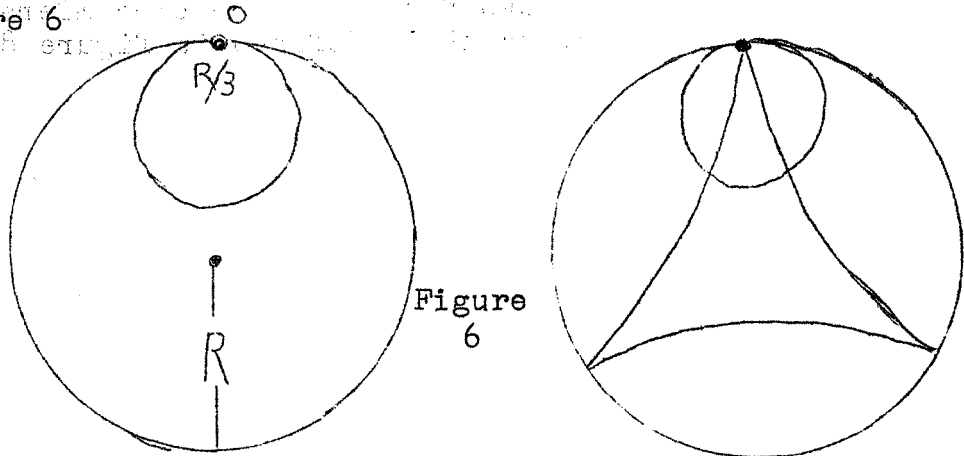


Figure 6

If we pick a starting point O, where each circle has a point in common, and roll the circle R/3 a complete revolution, we produce the figure in question.

By choosing small circles of radii 1/4R, 1/5R, ..., 1/nR, a 4, 5, ..., n pointed epicycloid can be defined.

* The circumference of a circle of radius R given by the formula

$$c = 2 \pi R,$$

and for a circle of radius R/n by

$$c = 2 \pi R/n$$

A point on the small circle, $c = 2 \pi R/n$, will trace a distance of $2 \pi R/n$ as it rolls one complete revolution inside the large circle $C=2 \pi R$. See figure 7. *

If the small circle rolls n revolutions inside the larger circle it will leave n cusps and will roll the distance

$$c = n \cdot 2 \pi R/n \\ = 2 \pi R.$$

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FREE FORM OR ACCIDENT - PART II (continued)

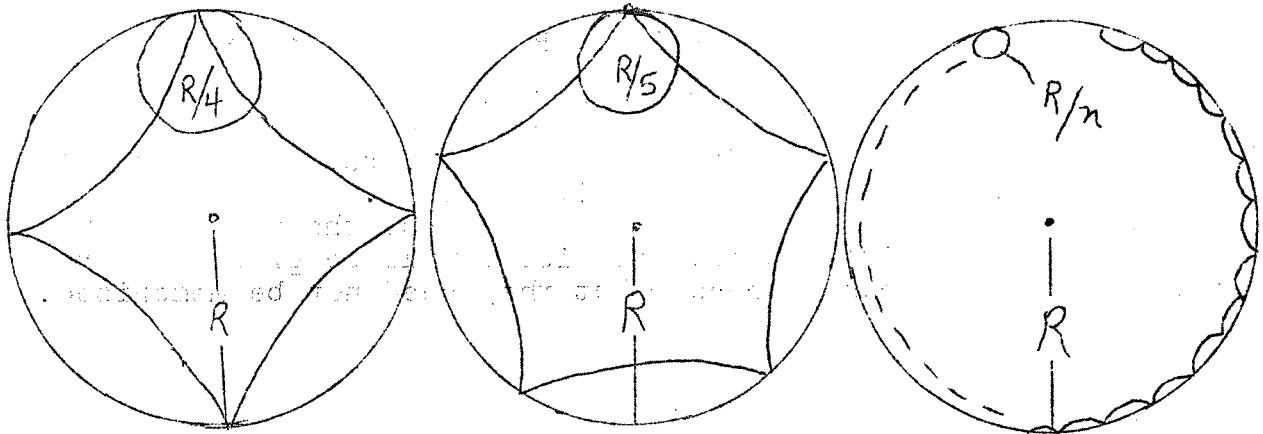


Figure 7

and define the forms shown in figure 7.

The crescent is a free form but obtained by allowing a larger circle of radius R to be overlaid by a smaller circle of radius r , in such a manner that two points on the circumference of each circle are touching. The crescent is defined in figure 8.

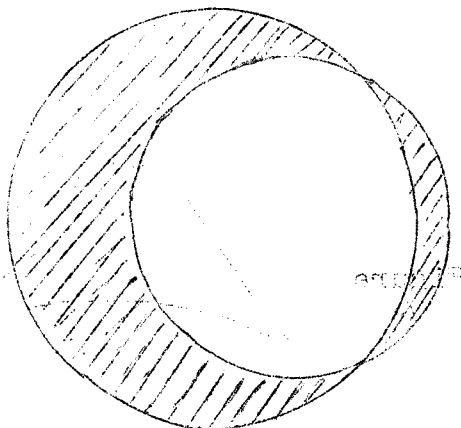


Figure 8

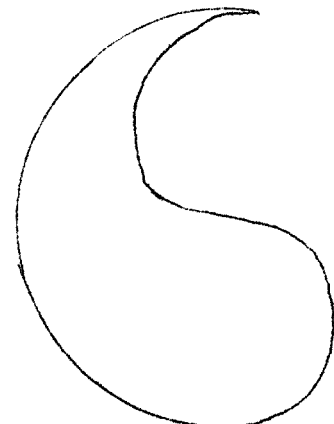
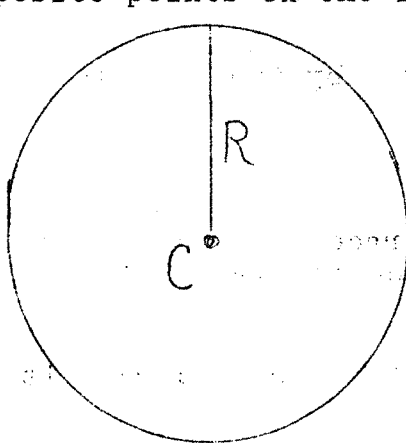
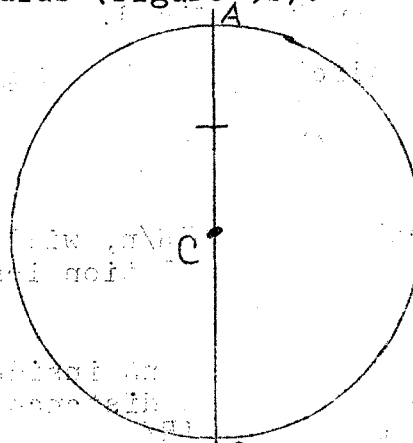


Figure 2f, the "RETORT"

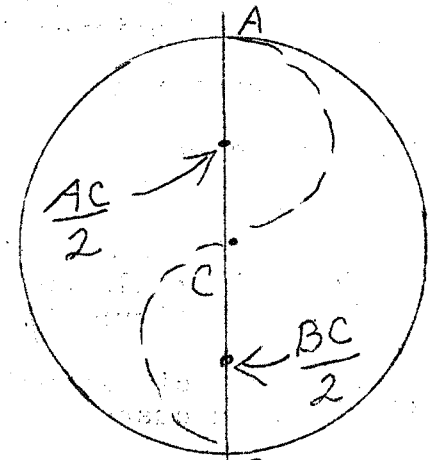
The retort (figure 2f) is defined by drawing a circle of radius R , (figure 9a), and drawing a line through the center, c , to two opposite points on the radius (figure 9b).



9a.



9b.



9c.

Figure 9

(continued next page)

FREE FORM OR ACCIDENT - PART II (continued)

If one bisects the line segments \overline{AC} and \overline{CB} (figure 9c) and draws half circles of radius $R/2$, with centers at $AC/2$ and $BC/2$, the retort is defined.

The astute reader will have by now observed that the third dimension of the earlier free form stones was obtained by rotating a plane figure about an axis of a biaxial coordinate system. If we rotate any of the figures 2d, e, f around an axis and pass a plane through the generated solid, forms other than the epicycloid, crescent or retort result. How do we add a third dimension and still maintain free forms? The answer lies in a mathematical property called "curvature," which will be next month's topic.

After curvature is covered, it will be possible to fully explore free form cutting. The conic sections, the circle, parabola, ellipse, and hyperbola (figure 10a-d) help us to decide which forms

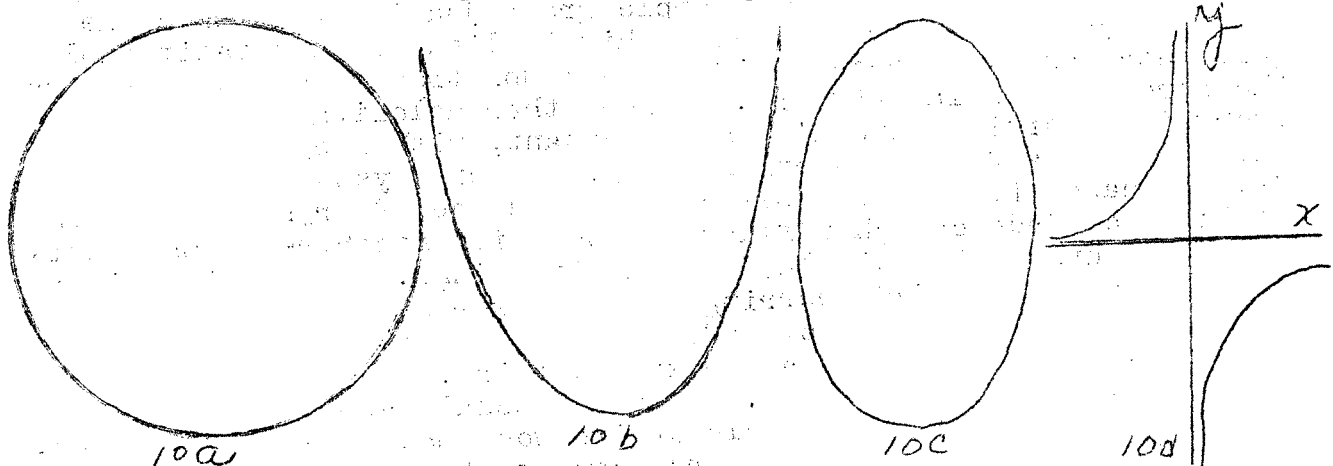


Figure 10

in figure 11 are free forms.

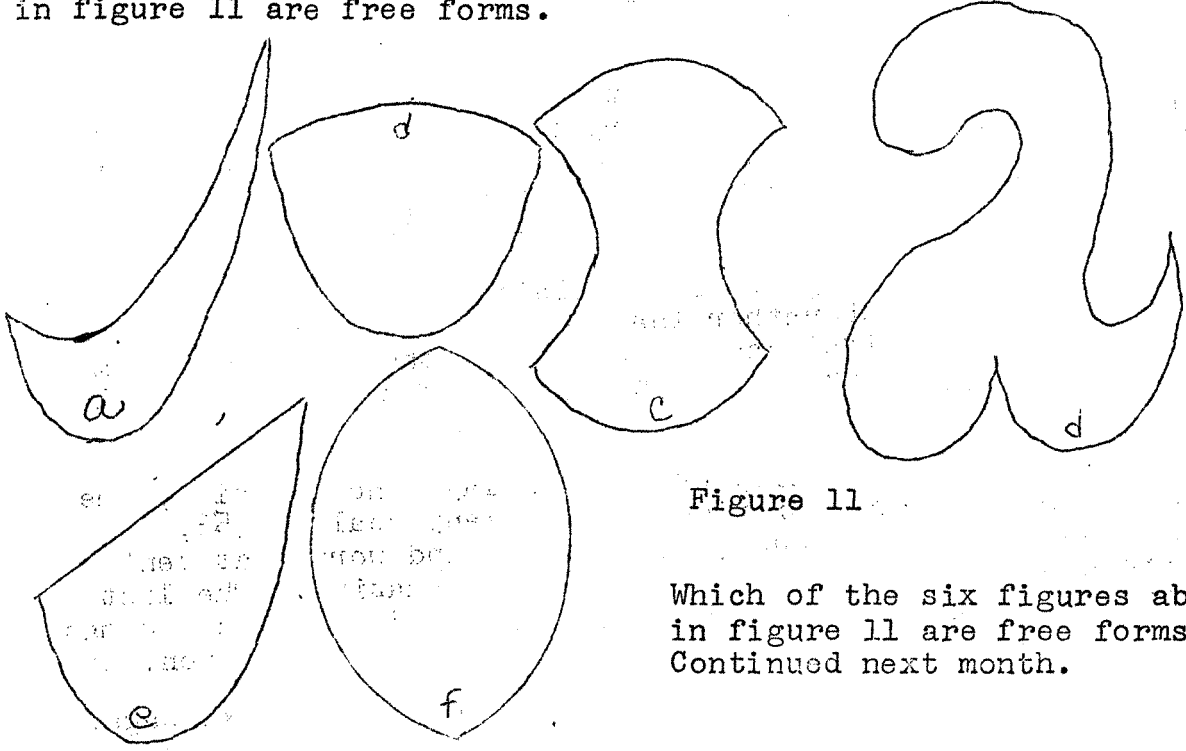


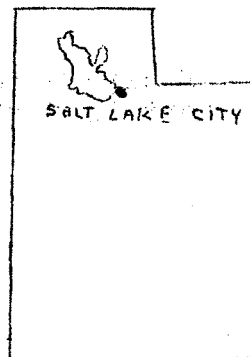
Figure 11

Which of the six figures above in figure 11 are free forms? Continued next month.

GEMBOREE OF THE ROCKIES

Reported by Florence Boring

The beautiful Wasatch Mountain range provided an appropriate backdrop for the Gemboree of the Rockies, the National Gem & Mineral Show, at Salt Lake City, Utah, June 19-22, 1969. For Myrtle and J. D. Young, Dr. John Neihardt, Florence Boring, Lloyd and Louise Baugher, and Mr. & Mrs. C. R. Bagg, members of the Lincoln Gem & Mineral Club, it was a memorable experience indeed.



Members of the Lincoln club had cause for pride: Nebraska's Poet Laureate, Dr. John G. Neihardt, had one of the finest special exhibits in the show, and his honorary Life Membership plaque from LGMC was prominently displayed in one corner of his case. Centering the case was the jade set of choker necklace, drop earrings, and gold-lined hololith ring which Dr. Neihardt had made for his wife Mona. The huge block of apple green jadeite from which he made his jade pieces was given to him in lieu of the traditional gold watch as a retirement gift upon completion of his duties with the Bureau of Indian Affairs. Three other hololith rings - one of ivory from Martin Johnson's last elephant, with a pyrope garnet carbuncle on a faceted amethyst base, one of crystal in a petaled flower shape with a fire opal center, and one of crystal set with an imperial jade cabochon flanked with white sapphires - made this the most outstanding display of hololith rings. Other fine pieces included a pair of jade earrings in a flower cup design with white sapphire centers, a stickpin of citrine set with a ruby Dr. Neihardt had found in the Great Smoky Mountains, and a chalcedony pendant with a cameo setting. A most unusual lapidary item was a hand-forged knife with a handle of ironwood and a scabbard of walnut, made entirely by Dr. Neihardt down to the hand-turned brass fittings and the inlaying of rubies in the hilt, top nut, and scabbard. Incidentally, most of the tools which he used were also made by Dr. Neihardt as well.

Several of the pieces were loaned by the members of his family for whom he had made them: the jade on crystal ring, Mrs. Sigurd Neihardt, Phoenix, Arizona; the ivory hololith ring, Mrs. Oliver Fink, Columbia, Missouri; and the jade flower-cup earrings, Mrs. Alice Thompson, Columbia, Missouri.

Another Lincolnite receiving special acclaim at the Gemboree, though a member of the Omaha club rather than the Lincoln club, was Mr. Claud Clary, whose beautiful case of polished spheres brought him a blue ribbon from the Rocky Mountain Federation and the National Award for Lapidary Achievement.

The number, variety, and quality of the displays and exhibits, the excellence of the materials provided by the many dealers (53, we understand), and the vast amount of ingenuity and work that went into the production of this National Show were amazing. The list of field trips alone - to Dugway Mountain for geodes, to the Thomas Mountains for topaz, to the huge copper mine in Bingham Canyon, to

(continued next page)

GEMBOREE OF THE ROCKIES (continued)

Great Salt Lake for selenite, as a few examples - could seldom be matched in any other locality. The large number of outstanding lectures and demonstrations would be very difficult to equal anywhere.

The Youngs, Dr. Neihardt, and Florence Boring were able to glimpse something of the more than two years of hard work and effort that went into the making of this tremendous show, as they were the houseguests of Mr. Young's niece Clemmie Glismann and her husband Leonard in their beautiful home on the side of a mountain overlooking the Utah State Capitol Building. Dr. Glismann was in charge of special exhibits, while Clemmie was busy with the many favors for the various special events and such other activities as the prize drawing for the clever banquet decorations.

Anyone considering the Lincoln Gem & Mineral Club as host for a National show or even for a Federation show should have seen the decorations and the favors! The centerpiece at each table for the banquet was a potted live "dusty miller" plant with hand-made sego lilies and a lifelike fuzzy bee. For the speakers' table chenille bees swarmed over large "hives" cleverly made from rope coiled in beehive shape. Individual favors for the banquet - more than five hundred of them - were polished slabs of variscite, each holding an artificial sego lily, handmade, with a topaz center - the state rock, state flower, and state gem.

The Oldtimers' Breakfast required almost 90 favors. These were Dugway geodes cleverly decorated as rockhound heads with a variety of caps, hats, braids, and bonnets. Most elaborate of all were the more than 50 favors for the judges - pen holders of polished black obsidian with a sea gull sandblasted into the vertical back slab.

For anyone fortunate enough to attend even part of this Gemboree of the Rockies, it was an unquestionable success - even for Dr. Neihardt's white poodle Jacquot, his constant companion, who was photographed as the "cutest rockhound at the show."

* * * * *

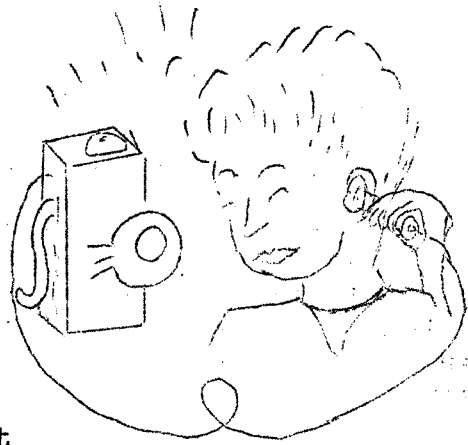
JOHN G. NEIHARDT

Beneath porched brows he peers, as though to scan
 Trails lost in blue horizons. From his pen
 Words, planted like a garden, sing of men
 Whose deeds and dooms shed glory on the van
 Of myriads flowing, as the rivers ran,
 Into the sunset. Past three score and ten,
 His soul shines through as brightly now as when
 The great adventure of his life began.

What vision must have lured him to attain
 His shining summit that shall never fade!
 When he has heard at last life's stern refrain
 That all must hear and no one can evade,
 Words planted like a garden shall remain
 And homage to the singer shall be paid.

DID YOU KNOW....

Mary Claus, our own Miss Rockrama of 1967, and the daughter of Mr. & Mrs. Claus, LGMC members, sends her most sincere thank you to all of those who mailed get well cards to her. Mary was a patient at the Nebraska Methodist Hospital in Omaha, Nebraska, and is making a nice recovery from her illness. It would be a pleasure to be a nurse and have such a charming patient as Mary. Her faith, courage, and good nature brought her through a hard time, we know. However, keep the mail going to her, it all helps to pass many long hours. (Mary celebrated her 31st birthday last month with many friends calling to say 'Hi'. She is being moved to the Eppley Care Center, 36th & Cummings, Omaha. ed.)



Howard Lange, son of Dr. & Mrs. Lange, spent several days with his parents. He was on his way to the east coast.

Martha Retzma, a student at Southeast High School and a resident of Amsterdam, Holland, was a recent guest in the home of Marie & Virgil Carveth.

"The show is over" and again, due to much hard work on the part of LGMC members, we gave the "Citizenery" a view of the earth's wonders, plus the heaven's this time. Weren't the moon pictures just beautiful? Thanks to our Secretary of State, Mr. Frank Marsh, we had a fabulous feature to add to our show. Aren't we fortunate to have such a distinguished gentleman a member of our club?

Our "moon", at the show, rested on a bed of "gold", and under the gold, another base to hold the moon - a gold-pan. A true relic of the gold rush days in Deadwood Gulch, South Dakota, used there by a prospector (we hope he struck it rich) thus the very old and the very new - From earth to the Moon.

My special thanks to those who helped put up my decorations, the flags, etc. Also, thank you to Mrs. Lange and Mrs. Young for the beautiful floral arrangements. Thank you too, the young men who helped climb the ladder - what would I do without you? I call Judy Weber our "Moon Maiden" - she did the papier-maché work on the moon. But Virg Carveth says he is the only man in captivity who rode across town with the moon in his lap!!

Please remember mail to our boys (who grew up in our club) that are in the service of our country. Terry Weber is now near Da Nang in Vietnam, a long way from home. Remember too, to keep our flag flying, display it at home. A flag is raised every day at the Weber home!

Frances Tracy was a very busy girl during the National Secretaries

(continued next page)

DID YOU KNOW..(continued)

Convention held at the Hotel Cornhusker recently. She served as decorations chairman, such beautiful things she creates!

Remember our Lloyd Baugher with get well cards. He is able to come home for a short stay week-ends, but is still a patient at the Lincoln Veterans Hospital.

It is always a great pleasure to see Dr. John Neihardt, happily attending our show. Such a wonderful personality!

Norma Miller is serving on the jury.

-- Until next time, Marie J. Carveth

SWAP AND FIELD TRIP REPORT - -

Tod Ashmun and I took two trips of note. The first was to the Prairie Rockhounds SWAP at Lake Ogallala, near Ogallala, Nebraska. Much very fine material was being traded. Blue Forest wood from Wyoming was available and its quality was quite high. Fine woods from Oregon, Washington, and Nebraska were also available. Lake Superior agates, Holmesville and Tri-State minerals, and crinoids were popular with our western Nebraska friends.

Tod came back with some nice micro-mount minerals from Kansas and Nebraska and I traded for much of the very nice cutting materials.

I was very highly impressed with the choice quality of materials available at the swap. Though newcomers to the trading game, the rockhounds at Ogallala came to trade rocks, and a very commendable job they did.

The following week-end, Tod and I ventured to eastern Iowa and western Illinois. We were guests of Mr. & Mrs. Schroeder, at Bettendorf, Iowa. The first day of collecting was at a secret gravel pit X-3-G, just between Duluth and New Orleans. Lake Superior Agates were running hot and heavy that day. At days end I had found 272 agates, but Tod turned in a rather amateurish performance, not doing nearly as well, with only a mere 267. (You'll improve with practice, Tod.)

The following day, Tod, Janet Schroeder and her son Chris, and I, visited the quarry at Oskaloosa, Iowa, to look for fossils. We found many nice blastoids and Janet was the blastoid champion, with a total of 93 for her days work. The blastoids are several species of Pentramites. We also found several crowns of the modulate crinoid Phanacrinus and the flexible crinoid Taxacrinus, and an unidentified camerate crinoid. We also found several complete specimens of the trilobite, Kaskia Chesterensis.

All in all, both trips were highly successful. We knew what we were going for and we found what we sought.

- Roger Pabian

FOOD FOR THOUGHT: If one carries more responsibility, there is less room for chips. mjc

ROCK HUNTING IN WYOMING

Thursday, August 21st, Lynn and I started on an eleven day trip into Wyoming and Utah to look for rocks, visit relatives and general sight seeing. Our trip was most rewarding and enjoyable. No time did we have any car trouble or witness any accidents.

Our first stop was Julesburg, Colorado where we called on Mr. and Mrs. John Cramer. They took us to the Platte River where we found an abundance of wood on the river sandbar. The Cramer's also have a fine collection of Indian artifacts, old guns and antiques of all kinds. They were so hospitable and we thoroughly enjoyed visiting with them.

Friday we made a short stop at Scottsbluff National Monument and then on to Fort Laramie. Lynn searched the grounds for artifacts. He did find a couple of Indian chippings and a horse shoe with a nail in it undoubtedly worn by a calvary horse or mule.

I was interested in the historical importance of this fort in the westward movement. The fort was first established in 1834 on the Laramie River and in 1841 called Fort Laramie. This fort was not only a military post to keep the Indians in line but a lively trading post, Pony Express and Overland Trail station and a haven of rest and replenishment for the Mormons and Gold Hunters. Did you know that ten companies of Mormons traveled on foot from Illinois to Utah? For every one hundred persons a two wheel oxen cart was provided to carry the heavier possessions and their live stock was herded along the way. The last two companies started too late in the season and most perished in the winter cold.

We stayed overnight at Guernsey. This area offers a good variety of rocks, onyx, dendrite and Youngite in plentiful supply. The difficulty is getting it out. You must be willing to do some hiking, climbing, perspire a lot and endure painful blisters. The onyx was rather easy to mine but the Youngite was a different story. Lynn worked most of Saturday afternoon chiseling away at the rock. Once you got your specimen there was still the long hard climb up the steep grade and you contemplate leaving it right where you chopped it out. The Youngite is located at the water level and in a cave across from where we dug and can only be reached by boat. Shovel, bar, heavy chisels and a 10 pound sledge hammer are necessary equipment.

Sunday we went to Glendo Dam. There's a great variety of agates here too. Lynn found a beautiful banded agate also a small tube agate stalactite. We were exhausted from the previous days activities and made no effort to mine any tube agate stalactite. Our real problem was a lack of space to haul any more specimens.

We went to Rawlins by way of Casper and on the way stopped at Pathfinder Dam. This dam completed in 1909 was the Bureau of Reclamation's first construction in the North Platte River Basin and it's water is used to irrigate thirsty land from Scottsbluff to Bridgeport, Nebraska area. This dam is the largest of the nine dams of the North Platte River Basin.

At Rawlins a camperette parked in front of us and when the back door was opened not ten but fourteen little Indian children tumbled out. We could hardly believe our eyes.

(continued)

ROCK HUNTING IN WYOMING (continued)

Eight o'clock next morning we met Tom Simmons, Pappy Waddle, Jim, Phyllis and Linda Parks, Lawrence and Viola Van Cleave, Mr. and Mrs. Robert Olivier and Jim at Wamsutter. Tom lead the Dirty Dozen to the Turritella agate beds. The agate lies in patches all over the ground and we all found lovely goodies to take home. The Van Cleaves' also found a prize arrow head.

Tuesday the group traveled to the Blue Forest Area about 40 miles north and west of Farson. The digging was easy and yielded a number of fine chunks of agatized wood and limb cast. No one left empty handed. Our three cyclists were having the time of their life riding over the plains.

I volunteered to lead the Dirty Dozen to the fossil fish beds. After much map studying, encouragement from Tom, and covering many dusty miles and direction from a farm family the beds were at last located. At this point Lynn and I left the group and proceeded on to Ogden, Utah to visit with Lynn's family.

Anyone going to Utah to look for gems and minerals contact Joe Lehner, 1520 29th St., Ogden. He is a most enthusiastic RockHound and expressed a desire to be helpful in giving directions to good gem areas and possibly even going along to show the way.

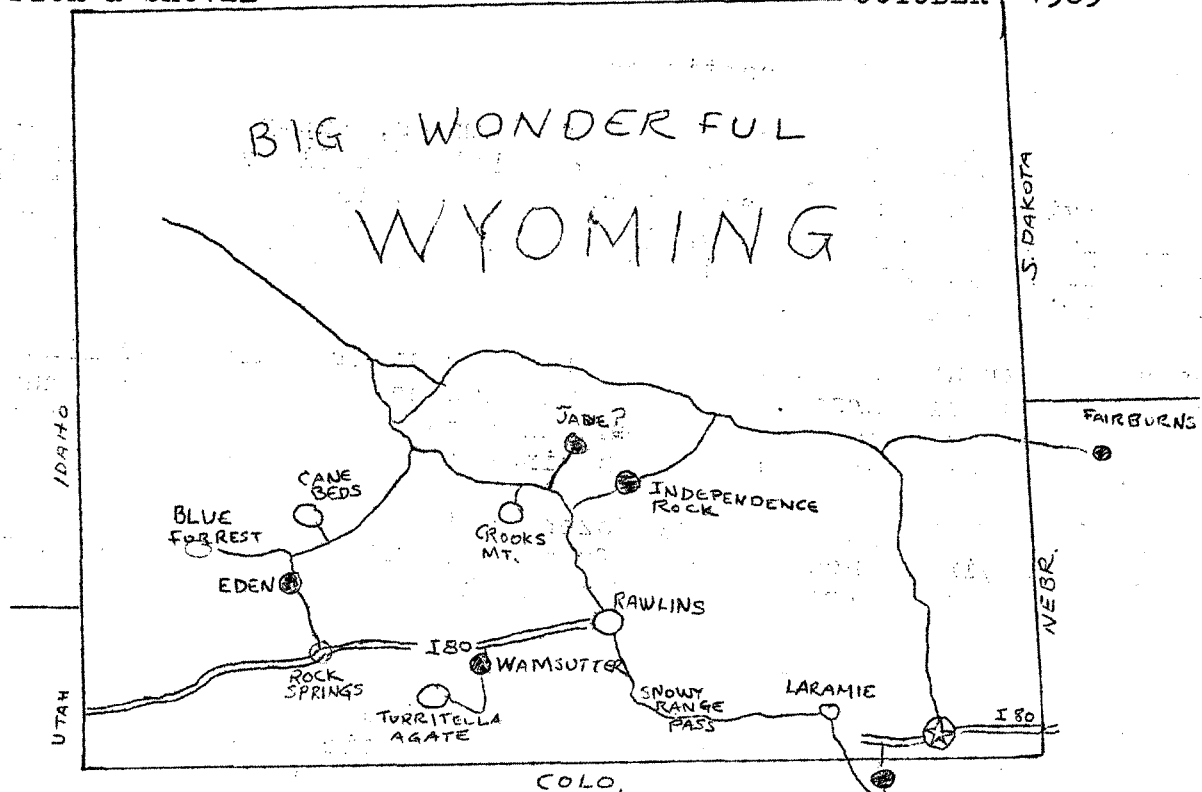
This was such a wonderful and successful trip we all agreed we should get together next year and head for Montana. Anyone interested talk to Tom. As for me I can hardly wait till next year.

Marie Wells

MOON ROCK SAMPLE FOR NEBRASKA ? ? ? Mac has received a letter of appreciation from member Frank Marsh in his capacity as Secretary of State for our help in the circulation of petitions regarding the "Moon Rock Samples". Included was his personal commendation to the membership for the success of our show and copies of various communications regarding the moon rock or dust. These are from Nebr. Congressman Robert V. Denny and Pennsylvania Congressman George A. Goodling, a copy of the proposed bill H.R.13838 introduced into the House of Representatives by Congressman Goodling, and a news release from the office of Mr. Goodling.

Particularly stimulating were some of the remarks made by Mr. Goodling-- "These materials are symbolic of a first for all mankind and I think all citizens throughout our various States and territories should be able to have a first-hand look at these materials from this other planet which, for the first time, was touched by men from Earth, Americans." Also -- "There will be other jaunts to the moon in the future, and while they will undoubtedly be exciting and challenging, they will not have the high drama associated with the first trip to the lunar surface. It is my deep feeling that each of the States and territories should have a meaningful memento of this historical and sensational event, when, as Neil A. Armstrong said as he stepped on the moon, 'That's one small step for man, one giant leap for mankind.'"

(It should be a sincere desire of all interested in the earth sciences to aid in furthering these hopes of our elected officials. ed.asst.)



The "Dirty Dozen" did ride again! At least we did for part of this last trip to Wyoming, and we were dirty, though not all of the time. By dirty we mean to say we got off the highways and traveled for miles in clouds of dust - frequently and happily.

A tentative itinerary was achieved and imparted to those leaving Lincoln ahead of the main caravan with rendezvous points and times carefully stated.

Saturday morning, August 23rd, dawned bright and cheery and the rest of us were on the way. Leader Tom Simmons with navigator C. Ray Waddle, aboard and his remounted home on wheels nestled on a low trailer behind the International, followed very faithfully by Bob and Nelda Oliver and their crew, Jimmy and dog Flash, trailed by Jim and Phyllis with Linda and pup Rags set out at a leisurely pace westward on I-80. First stop for regrouping, checking the two-way radios etc., then a short pause at Kearney interchange to deposit Mrs. Waddle for a visit with her family.

We followed I-80 as far as we could through the lovely Platte Valley then onto congested highway 30 toward Cheyenne, Wyoming. When we reached the KOA campground in Cheyenne there was still some daylight left and all voted to go on as far as possible so we'd be nearer our eventual destination. We left I-80 at Harriman Road heading southward toward the Colorado line and sometime after dark found a quiet spot just waiting for us to park, nourish ourselves, sleep neath the bright moon where the quiet and freshness of the mountain air abounded, and I'm sure all were thinking of the next days' hopeful finds.

Sunday morning, in all it's churchlike splendor, found us wending our way to Colo. 287 and in a short time we were indeed parked near an alabaster cliff at Owl Canyon. The colors and abundance were all we could hope for and it took very little time for all to collect enough material to give us carving pleasures in the near future.

(continued)

BIG WONDERFUL WYOMING (continued)

Off again toward Wamsutter and turritella. Our first stop was an off-the-main-road visit to one of the early pony stage stops with an interesting story, picturesque and thought provoking. As we walked around the grounds and stretched our legs we discovered bits of broken purple glass and even some of the irridescent. Next stop was a city park in Laramie for lunch before setting out on the less-traveled road through Snowy Range Pass rather than the interstate. Some unexpected delay due to the fickle nature of motor vehicles but eventually we arrived at the summit and found it well worth the effort. The air was so fresh and light and the view tremendous. Tom was a really fine leader in that he stopped many times so we could just enjoy the view or take pictures.

When we reached Rawlins we had a short stop at the Sundberg Jade shop to view their fine materials and exquisite carvings. The distance to Wamsutter was short and made in time to gas up, stock up, park, eat and visit with Vi and Van Van Cleave who had already spent part of a day in the turritella area and found some artifacts. They had been having a lovely week along the way and had many things to tell.

Monday morning, 8 o'clock and all were ready including Lynn and Marie Wells who were motelling this trip. We traveled south from Wamsutter 8 miles, turned right and follow the dusty road west to a tin barn, right hand fork to the top of the hill which is approximately 2 miles. As you step from the car there can be no doubt in your mind that you are in Turritella country. You can hardly walk without crunching the tiny shells which have been freed from the matrix by wind and weather. We found them in all sizes and condition. Many millions of tiny shells were available and we gathered many to bring back for shellcraft and specimen. We found the agate plentiful and much of it very hard for lapidary work. Naturally it took only a short time to have more than enough to bring home for personal collection and swapping.

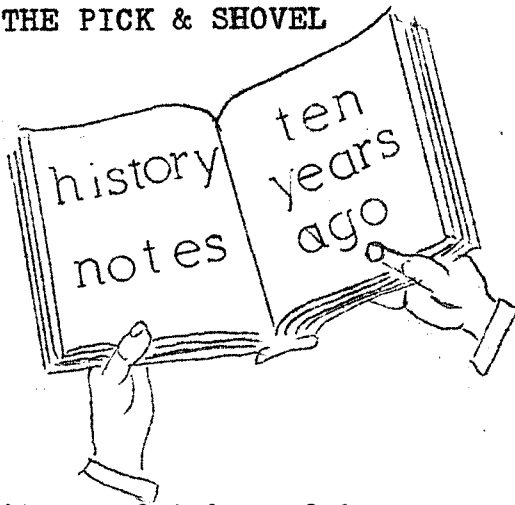
Hit the dirt trail for Wamsutter, hitch up trailers and off into the noonday sun toward Rock Springs. While Tom negotiated some needed work on his International the rest of the caravan gathered at the Tinsky's Rock Shop for some interesting talk, information, even a few purchases of materials which we felt could not be duplicated on the field trip.

Next stop the village of Eden, setting up camp at the village store, post office, gas station, and rock hounds' haven. The Ramsey's (Dill) accommodate campers with gracious hospitality and a look at his rock piles intensifies the desire to get to the action areas.

Tuesday morning, 4 miles to Farson and final rendezvous point before going into the blue wood area. This area is abounding in pock marks from previous hunters, small tumbling specimens, a protective layer of shale and some really beautiful finds. It can be work but really worth while. I don't know who was the most excited about the whole thing but I believe Pappy might have enjoyed himself the most. Ask him about his straw hat or if he plans to return there some time!

By the time everyone was ready to rest it was time to leave the area and since I'm at the bottom of a page I'll let you rest till next month when we finish our trip. If you have been bored - please come along the next time - I guarantee you won't have time to be bored.

Narrator - Phyllis



Our first club show was held at the National Guard Armory. With the combined efforts and hard work of the members it was a success. This was a new experience, for most of the members it was the first time they had shown their collection. Most of the cases were displayed nicely but I am sure that most of us learned a great deal that first year. The dealers were especially appreciative of the home cooking that came from the Snack Bar, managed by Marjory Heedick and Dorothy Engelhart.

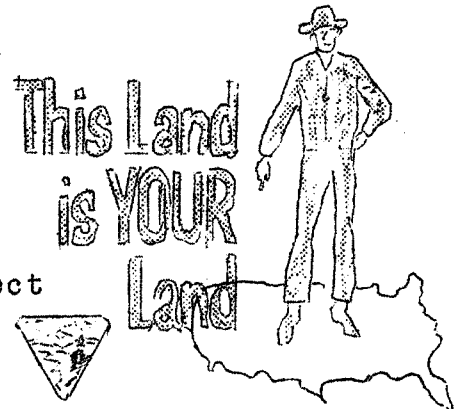
At our October club meeting Dick Hedges showed slides of minerals, slabs and caves, and explained the "Do's and Don'ts" in taking such pictures. Memories were refreshed by pictures of the club trip to Fort Robinson in 1958 and 1959, the Wichita RMF show as well as our own first show.

- from the notebooks of Historian Frances Tracy

JOHNNY HORIZON

Meet Johnny Horison - one of America's newer educational symbols. You are urged to become better acquainted with this clean-cut American who says, "This is your land, protect it and keep it clean."

Johnny Horizon is the symbol of an intensive campaign to clean up the public lands and protect their natural beauty. This announcement was made a year ago by the Directors of the Bureau of Land Management.



Club members are urged to promote this campaign and participate in its activities.

KEEP IT CLEAN!

NAOESCIThe annual meeting of the Nebraska Association of Earth Science Clubs, Inc., was held in Omaha, NB, in conjunction with the 3rd Annual State Rock Show. Twenty-six of a possible thirty delegates were present. Membership stands at 564 at that time.

The Johnny Horizon project was explained by Claud Clary, chmn. for NB, and all clubs in the state were invited to participate in the nation wide clean-up days, Oct. 10-11-12.

A directory will be published after Jan. 1, 1970, listing all rock clubs and their members that belong to the NAOSCHI. (price 25¢).

Kearney will host the State Show for 1970 on Apr. 3-4-5, at Kearney State College during the spring vacation.

The elected Officers for NAOESCI for 1970 are: Pres.-Charles Gaudreault, Gothenburg, 100th Meridian Rock Club; vice-pres.-Gerald Hoye, Wood River, Mid-State Rock Club, Sec.-Treas.-Harvey & Howard Kenfield, Ogallala, The Prairie Rockhounds. Board of Directors: Frank Barcal, Crawford - 2nd yr. of 2 yr. term; Claud Clary, Lincoln - replacing Emil Elmshausen; Zee Uridil, Chadron - 2 yr. term; Bud Hall, Omaha, 1 yr. term.

Midwest Federation's NEWSLETTER

Published monthly except July & August as a Service to Member Clubs
Editor: Haydon Peterson, Route 5 - Box 229, Des Moines, Ia. 50317



Issue No. 98 - October 1969

OCTOBER IS CLEAN UP MONTH

Why not have a clean up trip in October to leave a favorite locality as beautiful as when you first went there? The Midwest Federation has a good reputation for keeping its field areas litter-free, and restoring shabby localities. The Midwest Conservation Committee, Cal George, chairman, and Anti-Litter Committee, Marie Beeler, and Peter Rookus, are helping us promote a program which will keep our favorite hunting grounds clean and healthy and open for future collectors. What can your club do to help? Take that clean-up trip, and then let these committees hear about it.

HELP WANTED -A MWF Talent Roundup

When Armstrong said of the moon exploration "We plead guilty of enjoying ourselves", he voiced a fact that many of us know. Work can be fun. To some of us the earth sciences and lapidary arts are just a hobby something to be done for spare time pleasure. But many of us see that to keep the hobby progressive and coordinated also takes organization and planning, in short, work. If you are one who doesn't mind the work which helps put your club on the map, maybe you would also like to have a chance at working on the Executive Committee.

Now, to start with, we have 15,000 members and only about 10% can have a chance at one of the Executive Committee jobs, at any given time. However that doesn't mean that the committees can't use more help. And every year there are vacancies and the Directors search frantically for just the right person to fill them. There should be a Federation file of talented people who have the time and the will to serve in some capacity. If you write in you can't be guaranteed a job at once of course but your name, your experience, and the position you are interested in will be on record, so

(continued page 2)

PROPOSED REVISED BY-LAWS

Copies of the proposed revised by-laws of the MWF have been mailed to each club together with a ballot to record your approvals and a self-addressed, stamped envelope, for return of the ballot to our secretary. Please remember, you have only 30 days to examine and ratify these revised by-laws from the time you receive them, so don't postpone immediate action. These new by-laws are the best we have every had, and represent long months of writing and debate and compromise. We feel that the revised by-laws will help the clubs as well as the new and future officers and committees. Thank you for helping in this important matter!

FEDERATION MANUALS

Various committees are hard at work preparing manuals to aid clubs in their many activities. There will be a Junior Activities Manual a Safety Manual, a Public Relations Manual, and a new Program Manual, among others. If your club has any ideas or materials which they would like included in any of these publications, please write the proper officer. Remember it is your Federation and you will get out of it what you put into it. Officers want to serve the clubs as the clubs wish to be served. Ask for a Federation booth at your next show and find out what your Federation is doing for you and what you can do for it.

THE FALL EXECUTIVE COMMITTEE MEETING

will be held on November 1st at the beginning of the new term. The meeting will be in Detroit, Michigan in connection with the annual show of the Michigan Mineralogical Society.

WILLIAM J. BINGHAM

past president of the MWF (1955-56) died in St. Paul Minnesota on August 29th after a long illness. Bill served the gem and mineral hobby in the Midwest in many ways, attending many executive meetings and shows in his wheel chair. He was nomenclature chairman for the Midwest for several years. He was active in the Minnesota Mineral Society, was well known for his color slides, his frequent interesting articles, and his interest in all aspects of the hobby. Binghamite, that regal cutting material from northern Minnesota was his discovery. Bill is survived by two children. He will be missed by his many friends in the Midwest and American Federation. The Midwest Federation has made a gift to the AFMS Scholarship fund in memory of Bill Bingham, a wonderful friend to us all.

CORRECTION

On page 6 of the 1969 Midwest Directory the correct price of American Federation Uniform Rules and Gem Lists are 25¢ each.

help wanted . . . continued from page 1

that a president looking for a specific talent from a certain area may decide that you are the best qualified.

Here is what we need to know: What offices have you held in your own club? What is your career? What special training or degrees do you have? What is your special interest in the hobby? Do you like to write letters? Can you attend meetings 2 or 3 times a year which may be several hundred miles away? Are you familiar with the by-laws and operational procedure of the Midwest and American Federations? Do you take part in competitive display, Scholarship Fund, Anti-Litter Campaign, and other Federation activities? Do you read club bulletins and the Midwest Newsletter and Earth Science magazine? Do you like to organize, plan, and follow through? Do you attend work meetings as well as social meetings? Do you have any creative ideas or constructive ideas for a particular committee? Do people like to work with you or for you? Have you held offices in other organizations? Do you have time enough for a job which may take several hours each week?

Write as complete a resume as you can and give two references . . . one an officer of your own club, and one a past or present Federation officer. Then mail the application, with your name, address and telephone number, to Jean Reynolds, 107 Tuttle Avenue Clarendon Hills, Illinois 60514. Applications will be cross filed by state and by type of work you are particularly interested in. Thanks for helping.

IF YOU HAVE AN ITEM OF INTEREST
SEND IT TO THE NEWSLETTER EDITOR

**OUR CLUBS SHOULD HAVE
A "MOON WALK" FILM**

Is there some good hearted club with a little spare cash which they would like to use to help the other clubs? NASA has released several spectacular moon walk programs which certainly would be popular with most program chairmen and club members. In areas where there are many programs available, perhaps members do not realize how much the Federation programs are used. If your club would like to help please write Mary Anderson, Program Chairman, (Route 3 - Box 241 E, Kokomo Indiana) and tell her which of these films you will give the Federation film library. Also send a copy to Haydon Peterson (Newsletter Editor, Route 5 - Box 229, Des Moines, Iowa) so your new program can be published.

Here are the programs available and their prices:

- 1) "Complete From Blastoff to Splashdown of Apollo 11" - Full Color, 400 ft. 8mm \$40.00.
- 2) "Moon Walk". This reproduction is much clearer than the telecast and has all the famous TV scenes. - In Black and White, 400 ft. 8mm \$20.00.
- 3) "Highlights of Apollo 11 Flight and Moon Shot". This is a set of 24, 35mm color slides. \$10.00.

Any of these may be ordered from Movie Newsreels, 1621 Cahuenga, Hollywood, California 90028.

NEW SLIDE PROGRAM AVAILABLE

The Lizzadro Museum of Elmhurst, Illinois has donated a new slide program to our MWF Program Library. This program consists of 75 color, 35mm, slides. When you order, ask for "Cameos Intarsia and Scotch Jewelry". Slides are done in the grand style of the Lizzadro Museum, having been photographed at the Museum. You will be able to see these works of art when you visit the Museum. This group of slides will make a very fine program and was rated "tops" by the Executive Board which had the pleasure of a preview recently.

**1970 PROGRAM PLANNER'S AID GUIDE
SOON TO BE AVAILABLE**

The Program Planner's Aids - 1970 will be the title of the new booklet now in preparation and to be published by the Library Committee soon. Mary C. Anderson is the chairman and Jane Auler is the assistant chairman of this committee.

In this new edition the committee will place at the finger tips of the member clubs program chairmen some worthwhile aids to get the mind working on original ideas that would especially fit their club. The information for the new aids guide was obtained from replies to letters sent to club program chairmen to learn their ideas for improving the MWF help to member clubs. (Clubs that did not reply may still do so. Just ask in your club for the person who received the blank, make your comments and return to Mrs. Anderson).

This new guide will have guidelines for the making of a good slide program, something which the MWF always needs to continue a flow of new programs to its members. Also a list of speakers that can be called upon for talks to your club.

JUDGES' SEMINAR AND WORKSHOP

A Judges' Seminar and Workshop is scheduled for 10:00 A.M., Saturday, October 11, at Fort Wayne, Indiana, in conjunction with the Three Rivers Gem and Mineral Society's show. It will be under the supervision of the Midwest Federation Uniform Rules Committee and geared to the American Federation's proposed training program for certification of competent judges. Those of you who have been judging or are seriously interested in becoming judges or clerks, please plan to attend this session. The show is to be held at the Glenbrook Shopping Center at the intersection of By-Pass 30 and US 27.

THE "BIBLIOGRAPHY OF EARTH SCIENCE MATERIALS" -by Gail Alexander

Have you seen a copy of the "Bibliography of Earth Science Materials" published by the Midwest Federation? It's beautiful! Really! The praises for the layout and publishing can be placed at the feet of Ellis Courter who did that wonderful job.

The bibliography is divided into two parts. The first part consists of the names of books relating to earth science by subject, author, publisher, number of pages and illustrations, and price, and a brief summary.

The second part has earth science materials available from the states within the MWF. The name of the booklet, number of pages, illustrations, and plates, the price, the source for obtaining, and some brief summaries are listed. The first criterion for this was whether or not the booklet could be obtained. Undoubtedly, some material was omitted. If any person knows of any that should have been included, please send the information to the Newsletter or to me. If it could be printed, it would be easy to add that information in one's copy of the Bibliography.

The frustrations were many when it was found that many fine booklets were "out-of-print". One hope... that some publications will be re-issued.

The booklet contains 54 pages. Each club in the MWF could have 2 copies. Other copies may be obtained from Ernie Montgomery, 830 Sheridan Place, Downers Grove, Illinois 60515. Price is \$1.00 per copy.

1970 MERIT AWARDS

Has your club started gathering your materials for your application for the 1970 Merit Awards? Better get started early... time really flies!

The MWF Merit Awards are given to those clubs who do outstanding work projecting our image in their communities and in aiding the Midwest Federation. The educational projects (classes, etc.) within the clubs are noted also. The Scholarship status makes a point.

Now, how can the judging committee decide when the scores are close? The answer to that question is the extras that are included with your application telling exactly what you have been doing. These could be newspaper clippings and pictures, resumes, letters of appreciation, and snapshots. Pages or clippings from the clubs' bulletins could be included. Anything that the judges could use to determine the proper recipients of these awards should be sent with the Merit Award application.

CLUB DOINGS

SEVERAL of our states are now trying statewide rockhound roundups and swaps. These originated with the successful roundups held in Iowa for several years. Illinois had their first one this year at Rock Island and Michigan had a big Upper Peninsula show, and later a state swap at Muskegon. South Dakota has an annual swap at Pickstown. Indiana clubs attended the Indiana Swap at Bedford. The St. Louis Mineral Society hosted a Missouri swap. The All-Minnesota Swap was held near Minneapolis.

AN OUTSTANDING bulletin is the Geode of our new McDonnell Gem Society of St. Louis, Missouri. This could be said of many of our MWF clubs. Their bulletins are improving monthly.

SOME CLUBS have already started on their scrap books and club histories for next years Merit Award contest. The Dallas County Club in Iowa has excellent public relations and keeps a complete record of its activities, which undoubtedly helps account for them being a multi-winner. All clubs are eligible to compete for regional and national honors.

AMONG the many contributions Illinois club members have made to the advancement of our hobby this year is the new AFMS Gem List which was prepared by the Nomenclature Chairman, Harriet George, and her committee, with special credit going to A. A. Catlin.

MANY of our biggest and most active clubs have junior members or sponsor junior groups. Earth Science magazine will soon bring out a helpful book for all juniors by Jay Farr. Since our junior members may be the first men on Mars we will all have to start doing more for them.

THE LAKELAND Gem Club of Minocqua, Wisconsin held a successful and well attended first show early last August. This would have been a Rockrama except for a provision in the by-laws which prohibited a Rockrama in the same division of the Federation as the annual convention.

OHIO clubs may be interested to know that Neil Armstrong, first man on the Moon has been made an honorary member of the Rollin' Rock Club and clubs in California. How about it Ohio? Efforts are being made to get Armstrong for the Mansfield show in 1971.

JUNE ZEITNER spoke to the members of the Gem City Rock Club of Quincy, Illinois at their September meeting, on Monday, September 15. This meeting followed their show on Saturday and Sunday, September 13-14.

THE INTEREST in getting states to designate state rocks and minerals has resulted in the state of Missouri printing a postcard showing the state's rock (Mozarkite) and mineral (Galena) in full color. A short thumbnail description accompanies the picture of each. Available from Missouri Geological Survey & Water Resources, Box 250, Rolla, Mo. Price is 6 for 25¢ - 100 for \$3.00.

WANTED.... ROCKRAMAS

-by Milford J. Sharp, Rockrama Chairman

How about it folks? Why not ask your club to put one on.... a Rockrama? Really, Rockramas are not hard to put on. (I won't say they are easy either.)

You just take your regular show and add a dash of special exhibits, the anticipation of a swap session, plus the spice of a cracker barrel session where you can meet a number of your Federation officers. Whenever possible, your MWF officers will attend. (Remember, they work for a living also.)

Stir well with energy and effort. Frost with extra advertising, top with some nuggets of fun, such as silent auctions (makes money too), an educational program or two, and some working demonstrations on how to cut stones (or clean fossils). Present your production to the public along with some good dealers and you have a Rockrama to be proud of.

Sounds like work you say? Positively... anything good is worth the effort. Now, take a good look at your own show... you probably already have a good foundation... dealers, exhibits by local members, silent auctions local advertising such as posters, news articles in local paper. You have an exhibit hall for the show, so add these additional items and "away you go".

A Rockrama is run by the Host Club, not the MWF. The MWF can and will help with advice based on past experience. Some ways in which the MWF can help you are:

1. Announcing your show in several issues of the Newsletter. This goes to all clubs and many members.
2. Your state vice president will publicize your Rockrama in his correspondence with other clubs and in personal appearances.
3. Federation officers will publicize your Rockrama in their personal contacts with other clubs over the whole Federation.
4. The MWF Special Exhibit Committee has a list of exhibitors who will be willing to show some of their fine work. These names will be made available on written request.
5. If you need money to start, the MWF will loan you interest free... \$200.00. Should you lose money, the MWF will assume 50% of

your loss up to the full \$200.00, which ever is the smaller. The Host Club will keep 75% of any net profit and 25% goes to the MWF. (This is true even if you do not borrow money.)

6. Your Rockrama chairman can furnish you a good outline for a complete show. Some workbooks from other Rockramas are available.

7. Earth Science Magazine accepts articles and pictures illustrating your show. Their advertising rates are reasonable also.

There are many other advantages in a Rockrama to the Host Club and members of the Federation in closer contacts with neighboring earth science groups and local civic organizations, educational information provided to improve public relations, a broadening of the Host Club's outlook and the expanded opportunity for individuals and clubs to exhibit and participate.

Three (3) Rockramas can be held each year. One (1) in each region not hosting the MWF Convention.

The following dates are open on a first come first serve basis:

1970 - Central Region, Eastern Region, Southern Region.

1971 - Central Region, Northern Region, Southern Region.

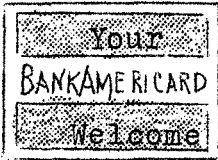
Let's go Rockrama... It can be fun!

For more information write Milford J. Sharp, Rockrama Chairman, 3901 W. 210 Street, Fairview Park, Ohio 44126. Phone area 216, 331-7085.

HOW ABOUT A FEDERATION SHOW?

If you feel your club is ready for a full Federation show please write to Leo Yanasak, 3421 S.W. 14th Street, Des Moines, Iowa. The privilege of hosting the convention for 1972 is up for bids. Priority will go to a bid from a state which has not hosted a show in some time. 1970 convention is in Minneapolis, July 23-26. The 1971 convention will be in Mansfield, Ohio, July 22-25. 1973, next field trip convention is scheduled for Michigan. Next National show will be Lincoln, Nebraska in 1974. Who is ready for us in 1972?

Discuss the matter in your club and let Leo know if you would like to be host in 1972. The clubs that have hosted the Federation show in the past have felt a real satisfaction.



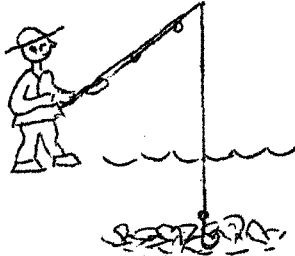
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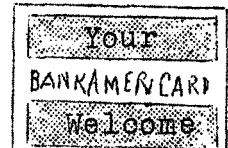
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Norma Miller, Editor
Box 29356
Lincoln, NB 68529

LINCOLN, NEBR. 68506

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1969

UNITED STATES



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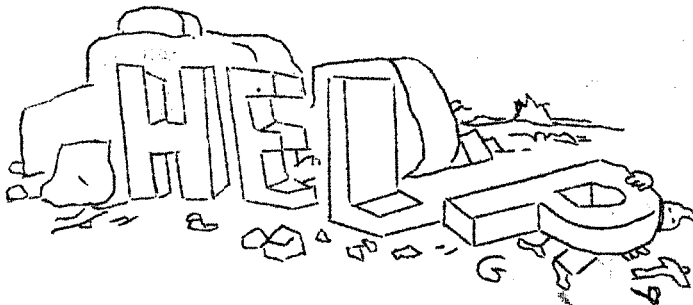
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"UNDERSTANDING, THROUGH EDUCATION, IS THE BUILDER OF TOMORROW"
- MRS. JUNE CULP ZEITNER MWF PRESIDENT



H E L P

E L I M I N A T E

L I T T E R

P L E A S E