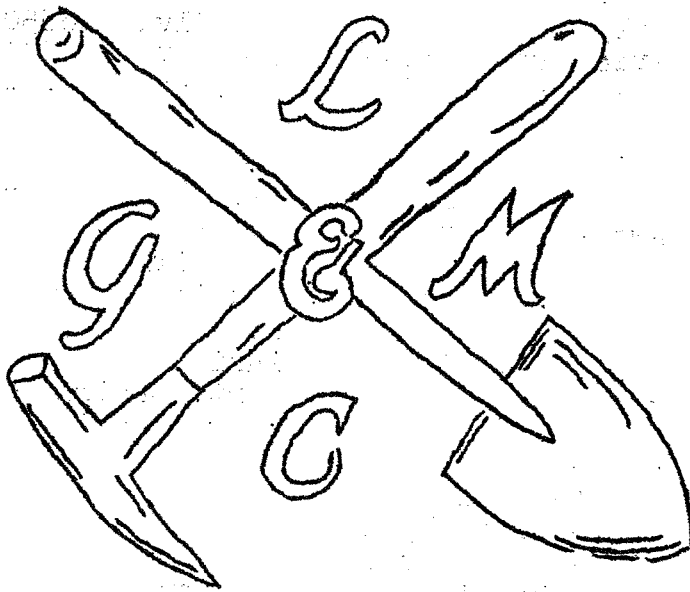


THE PICK & SHOVEL



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

JUN 1969
JUL 1969

Official Publication of
THE LINCOLN GEM AND MINERAL CLUB, INC., LINCOLN, NEBRASKA
Box 29356

The purpose of the corporation shall be to study, promote an interest in, and disseminate knowledge of lapidary and various Earth Sciences, including but not necessarily limited to geology, paleontology and mineralogy. It shall be a particular purpose of the corporation to provide education in these fields to its members and the general public, particularly youth and student groups.

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Art Asst. - - - - - -Jim Parks
Club News - - - - - -Mrs. Marie Carveth- - - - - - - - -432-9100
Reporters - - - - - -ALL Club Members

Articles published in THE PICK & SHOVEL may be reprinted if credit is given and a copy of the publication is mailed to the editor. Annual subscription for THE PICK & SHOVEL (which is automatically included with full club membership) is \$2.00 per year.

AFFILIATED WITH
MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES
AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES

CALENDAR

PRESIDENT'S FIELD TRIP....

WHEN....July 4th week-end

WHERE....a trip into Iowa with overnight stop
at the Grotto of the Redemption,
West Bend, Iowa

Arrangements are in the making for hunting on the trip over and on the return trip. Space is available near the Grotto for campers and tenters can stay just below the Grotto in a camp area. Water and toilet facilities are available. Anyone who doesn't care to camp can stay at the West Bend Motel, West Bend, Iowa. You may write Mr. Horkey at the motel for reservations. The cafeteria at the Grotto is open all three meals every day, and free tours of the Grotto are made every hour. Details will be finalized the last week of June and a calling committee will inform LGMC members of the schedule of departure, etc., or you may call your field trip chairman

--Lloyd Baugher



ROCK SWAP....WHEN - AUGUST 2-3

WHERE - Miniscuya Boy Scout Camp, Lincoln, NB
Sponsored by Lincoln Gem & Mineral Club
Camp open Friday night for early campers.
Pot luck supper - Saturday, Aug. 2 - 6:30 PM
Pancake feed - 7:30 AM to 9:00 AM Sunday
FREE camping...FREE coffee...FREE watermelon feed
Auction - 10:00 AM Sunday
Registration 50¢ - children FREE

*Buy
Sell
Swap*

CHANGE OF ADDRESS: Harry Gragg, 1900 A St., 68502. PH 435-6426

COMMITTEE APPOINTMENT: Membership Chairman-Marie Wells, PH 435-6758

COMING EVENTS:

- June 27-29 Fort Collins Gem & Mineral Show, Ft. Collins, CO
- June 28-29 Verona Rock & Gem Club Swap, Verona, Wisc.
- July 4-6 Jet, Oklahoma Mineral Show, Swap & Field Trip, Jet, Okla. Field Trip to Great Salt Plains AM of the 5th
- July 12-13 Tri-State Gem & Mineral Soc. Show, Dubuque, IA
- July 19-20 Colorado Springs Mineralogical Soc. Show, Colorado Springs, Colo.
- July 19-20 Charles City Rock & Gem Club Show & Swap, Charles City, IA
- AUG. 2-3 ROCK SWAP, LINCOLN GEM & MINERAL CLUB, SCOUT CAMP, Lincoln
- Aug. 3 Chariton River Pebble Pickers All Hobby Swap, between Chariton and Russell, IA
- Aug. 9-10 ROCK SWAP, Grandview Park, Grandview, Iowa
- Aug. 16-17 Northwest Nebraska Rock Show, Crawford, Nebr.
- Aug. 23-24 Sac & Fox Lapidary Club and Mid-Iowa Rock Club Rock Swap, Riverview Park, Marshalltown, IA
- Aug. 30-Sept. 1 Nebraska State Rock Show, sponsored by Nebr. Mineral & Gem Club, Guard Armory, Omaha, NB
- Sept. 27-28 Lincoln Gem & Mineral Club Show, Pershing Auditorium, Lincoln, NB

BIRTH STONE FOR JUNE -- PEARL

The pearl is not a true gemstone. It is composed mostly of aragonite, a form of calcium carbonate, but because of its organic origin, it cannot be considered a true mineral.

Pearls are formed inside the shells of nacreous mollusks (Pelecypods) and owe their existence to the ability of the mollusk to secrete irritating material. The aragonite crystals are cemented together by conchiolin, a substance similar to tooth enamel.

Most pearls on the market today are cultured pearls. This means that man planted the irritant. A small piece of the mantle of a living pearl oyster is removed and used as a bag to hold a small sphere of fresh-water pearl shell. The bag is then inserted in a 3-month old pearl oyster. Virtually all spheres are made from shells from the Mississippi River, as this pearl shell is less damaging to the oyster who received the implant. Japan is the center of the cultured pearl industry, and they import shiploads from the Mississippi River.

The oysters are kept in buckets in the ocean, and are inspected and cleaned annually to speed their growth. They grow from 3 to 5 years. Only 5% yield perfect pearls.

Shape, color, luster, size and perfection determine the value of a pearl. Baroque pearls are odd-shape formed as several irritating particles were present at the same time. All factors being equal, perfectly round pearls are most highly valued with fine blacks valued over pure whites. Pearls are sold by weight, either by pearl grains (four to the carat) or by the mommie, the international weight unit equal to .132 ounces.

(condensed from Waterloo, Iowa Rock Talk Bulletin, from an article by Lorraine Griffith - Black Hawk Member. via SHOW-ME NEWSLETTER)

BIRTH STONE FOR JULY -- RUBY

In ancient times this gem symbolized the sun and summer and was believed to contain the spark of life. A ruby was believed to protect the wearer from bad health, evil thoughts and loss of wealth.

* * * * *

Daffynition: PSYCHOCERAMICS: The science of fixing crackpots.

* * * * *

From DINOSAURS, by Edwin H. Golbert, via Magic Valley Gem News...

Our modern concept of geologic time has been reached through the study of radioactive disintegration. For example, uranium in the rocks of the earth's crust decays at a definite rate. As a result of this decay the uranium is ultimately transformed into a certain type of lead. Thus it is possible in certain cases to measure the proportion of uranium in a rock to the proportion of lead derived from that uranium, and, knowing the rate of decay of uranium, to arrive at a figure that will express in reasonably accurate terms the age of the rock. (more on this subject in a future issue of P & S-article titled GEOLOGIC TIME CLOCKS)

ROCK SWAP

- AUG. 2-3, 1969

SPONSORED BY

LINCOLN GEM & MINERAL CLUB, INC.

BUY - SELL - SWAP

dealers - - - welcome

Auction
Donations or Consignment
Profit to Scholarship Fund
10:00 AM Sunday

Pot Luck Supper
Saturday - 6:30 PM
Bring what you like and share

Free Coffee
Watermelon Feed

Free Camping
Water Available

Pancake Feed
for Sunday Breakfast
7:00 to 9:00 AM Sunday

Entertainment

COME - HAVE FUN WITH US!!

SCOUT CAMP, LINCOLN, NEB.

REGISTRATION 50¢

CHILDREN FREE

HUZZAH ! ! ! !

Plans are progressing for

THE SHOW!!

Dealers engaged at present are:

| | |
|-----------------------------------|------------------------|
| Hutsell's Rock Shop - - - - - | Blue Springs, Missouri |
| Guy Miller - - - - - | Hastings, Nebraska |
| Whispering Pines Rock Shop - - - | Valentine, Nebraska |
| Barnard's, Inc. - - - - - | Kansas City, Missouri |
| Everett Lapidary - - - - - | Lincoln, Nebraska |
| Sherman's Rock Shop - - - - - | Onawa, Iowa |
| Ebersole Lapidary Supply Inc. - - | Wichita, Kansas |
| The Roadrunners - - - - - | Quartzsite, Arizona |
| Zarley's Rock Shop - - - - - | Lancaster, California |
| Lapidary & Gem Cutters Supply - - | Ropesville, Texas |
| Bess Gordon Minerals - - - - - | Glendale, California |

| | | |
|-----------|---------------------|----------------|
| FEATURES: | WORKING SHOP | GEM FACETING |
| | FLUORESCENT DISPLAY | SLIDE LECTURES |

Show time is not far off even though summer has really just begun and we are still vacation-minded. Now is the time to start lining up your advance sale of tickets with friends and neighbors.

To arouse your curiosity some of the special exhibits planned for OUR SHOW in September sound tremendously fascinating. For instance let me whet your appetite with titles of exhibits like:

"The Mask of the Ancients"

"Jupiter's Jewelry"

"The Great Seal of the United States in Stone"

ALSO, a display of Dubois, Wyoming Wood, by the Hills

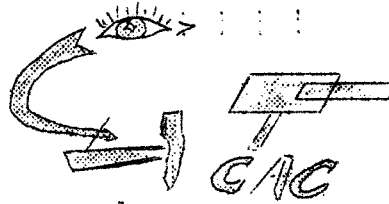
AND, an example of INTARSIA, an ancient art, by Charles Smart of Minneapolis, Minnesota.

More information about these and other exhibits will appear in the coming issues of the Pick & Shovel. In the meantime, be thinking about your own exhibits...what can you do to make them more unique? Will yours be a 'show-stopper'? It can be if you start planning now. We've always had many GOOD exhibits by our members and this year will be another "success story" - plan to help write it.

Watch for an announcement SOON concerning Advance Ticket Sales

COMMUNITY ARTS COUNCIL

The last meeting of the Community Arts Council for this season was occupied with a review of their past activities, a look at the future plans, and with the election of officers. The newly elected officers will assume their duties when the Council meets again in the fall.



In addition to the usual services offered by the Council, several specific areas were given special attention during the past year. Considerable research was done on Arts in the Schools. The purpose of this study was to create an attitude toward the Arts as a part of the overall personal development of the student in all levels of education.

The newly organized United Fund for the Arts is yet in its infancy and in fact results are not yet apparent. Possibly more time will be required to develop this relatively new idea.

The field of urban renewal and beautification of the city were studied quite in detail. Since Mr. Enerson is very well qualified to speak in both these fields we were fortunate to have his leadership. He has volunteered to continue to give of his time and attention in these very worthwhile areas.

One wall of the meeting room might well have represented the Hall of Fame as many newspaper clippings were on display pertaining to the various art organizations and their activities during the past year. Lincolntonites are fortunate in having so many interesting activities available. Mr. Thomas Carroll, the executive director, and his wife, had assembled and compiled the clippings, and they are deserving of commendation for this valuable service.

The officers for the coming year will be:

President - Sam Davidson
 Vice-President - R. L. White and Mrs. Joe R. Seacrest
 Secretary - Miss Norma Carpenter
 Treasurer - Eames Irvin
 Directors at Large - Mrs. Willard Cook, Cliff Hillegass
 Larry Lusk, Robert Narveson and
 Fred N. Wells

Mr. L. A. Enerson, president for the past two years, has certainly contributed to the betterment of the community by giving of his creative services and by his faithful attention to the Arts in the Community.

- Ralph Ulrich, Representative to the Community Arts Council

* * * * *

THOUGHT FOR THE DAY: If your plan is for one year, plant rice;
 For ten years, plant trees;
 For a hundred years, educate men.

(contributed by mjc)

- Kuan-tze

ROCK SWAP REVIEW

May 24-25 were the dates of the first rock swap hosted by the Central Nebraska Gem & Mineral Society of Hastings. Rockhounds from seven clubs representing three states got together at the Crystal Lake Recreation Area just north of Ayr, Nebraska. Our Lincoln club was represented by Norm and Dorothy Engelhart, myself, and Roger Pabian, who came over Sunday morning.

It didn't take long Saturday morning to get around to some serious swapping. It was difficult though, making decisions as to what to swap first, there was so much good material to select from. In fact the one thing that made the biggest impression upon me was the overall quality of the material available for swap. It was a pleasant change from a lot of swaps in which you have to sort through a lot of Junkite to find things you would consider swapping for.

Saturday evening activity consisted of an old fashioned camp fire, a little group singing, lots of visiting, and the fun of watching Dorothy Engelhart trying to get marshmallows on one end of the stick toasted before she toasted on the other.

Sunday morning brought more swapping and the fun of watching a group of people holding their first silent auction. It didn't take them very long to figure out the whys and wherefores of a silent auction and a few of the little fun tricks that can go along with it. When the specimens were all removed from the auction tables their place was taken by a multitude of good things to eat. I always thought our club ate pretty well but the Hastings Club takes a back seat to no one.

This brought to an end a very enjoyable weekend of swapping, chatting, and relaxation, all of which leaves a person hoping that this was only the first of an annual series of such events.

-- Gene Eno

* * * * *

Just returned from the Field Trip convention at Murdo, SD, and a short tour of the Black Hills and have time only for a short note this month. First and foremost, I must comment on the wonderful job performed by the four host clubs in producing such an organized and varied program of activities for the near 3000 registrants. With the help of other South Dakota clubs, and many civic organizations and church groups, it was TREMENDOUS!!

Those in attendance from LGMC were delegates, Frances Tracy and Norma Miller, alternate Glen Ulrich, Nebraska state vice-president Dorothy Engelhart, MWF committeeman Lloyd Baugher, board members Evelyn Ulrich, Louise Baugher and Ralph Ulrich. Also present were Maurice Tracy, Norm Engelhart and Randy Miller.

Winner of the 1969 MWF Bulletin Contest was The PICK AND DOP STICK, Chicago Rocks & Minerals Society, Editor: Mrs. Alan L. Palmer, 2825 N Troy, Chicago, IL 60618. Associate Editors: Gerald E. Ostram, Russell P. McFall, Anthony Gricius. A complete list of the top 10 winners will appear in the next issue of P & S and a full report (I hope) of the convention. (nm)

EDUCATIONAL REPORT: In May Tod Ashmun gave a lecture to the 4th graders at Clare McPhee. Dorothy Engelhart visited three county schools with the educational cases, and Gene Eno participated in the Lincoln Public Schools Outdoor Education experimental pilot program at the Chet Ager Nature Center, using Hawthorne School 6th graders. His area covered geological aspects of Nebraska. This brings to a close (?) the activities of this committee for a few short weeks till school resumes in the fall. Thanks to all who have given of time and talent in this area of our hobby.

* * * * *

Gene and Jan Eno are expecting prominent visitors this week - Cecilia and Jerry Duluk, and family, of Dearborn, Michigan. Gene and Roger Pabian will lead Celia and Jerry to several crinoid localities in eastern Nebraska. Cecilia is a past program chairman for Midwest Federation for several years. Both Cecilia and Jerry recently received the honor of having fossils named after them. Cecilia's is *Gennaeocrinus dulukae* Kesling, and Jerry's is *Poteriocrinites duluki* Kesling, both crinoids found at Silica, Ohio. The specimens are at the University of Michigan.

* * * * *

On June 8 the University of Nebraska dedicated the Maxwell Aboretum on the East Campus. A portion of the monument in honor of the late Earl G. Maxwell is a native Nebraska petrified log.

It has been reported that vandals have already chipped at the log! It is sad to think that such a fitting monument should be so desecrated. Let us, as members of LGMC, rededicate ourselves to the conservation and preservation of nature. (Thanks to Art Howlett for speaking out for LGMC in the Public Mind.)

* * * * *

Think big and your deeds will grow.
Think small and you fall behind.
Think that you can and you will.
It's all in the state of mind.

via Mesabi Media

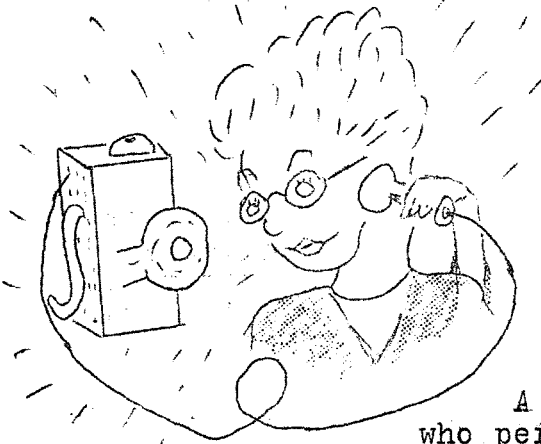
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REMEMBER THESE NEBRASKA EVENTS:

- Aug. 2-3 Lincoln Gem & Mineral Club Rock Swap, Camp Miniscuya, Lincoln, NB
- Aug. 2-3 Prairie Rockhounds Rock Swap, Ogalalla, NB (tentative date)
- Aug. 16-17 Northwest Nebraska Rock Club, Crawford City Park Pavillion, Crawford, NB
- Aug. 30-31 Nebraska State Rock-Hobby Show, Nebraska National & Sept. 1 Guard Armory, Omaha, NB
- Sept. 19-21 Plains Rock & Mineral Club Show, 4-H Bldg., Kimball, NB
- Sept. 27-28 Lincoln Gem & Mineral Show, Pershing Municipal Auditorium, Lincoln, NB

The PICK & SHOVEL was on display at the Murdo Convention as well as the National Show in Salt Lake City. June Zeitner is in charge of the AFMS display of club bulletins. Our own Phyllis Parks was Senior Judge of the bulletin contest for Midwest Federation.

-- DID YOU KNOW ? ?



"The Party Is Over", or so the song goes! Our latest honorary member, Dr. John G. Neihardt, remains high on our list of the honored great! A delightful personality plus! A second thought on the subject of greatness - many are in the same category - "Great"!

A quiet man who daily does his work, who performs acts of kindness without publicity, a mother who serves her family in many capacities, a boy who is respectful to his elders, and does so - naturally! A daughter who is helpful to mother, many times without prompting, a friend who is near through need, grief, or joy, these too, are great, but without fanfare. They too, may stand beside those like our own beloved Dr. Neihardt! In their own way, serving well. One of his most outstanding features are his blue eyes - forever sparkling, lively, alert to all about him - to be thus at our time in life, like his, will indeed be rewarding!

Terry Weber and Chris Engelhart are enjoying a leave from the service, spending time with their families and friends. Chris is going on to Fort Benning, Ga., and Terry will go to Fort Lewis, Washington, for further orders. Good Luck to both of these fine young men, whom we have watched grow up into manhood and Good Americans.

Our president, Mr. McKinney, is showing improvement each time we see him, and to gain back his health is our wish for him. The faith shown by Mrs. McKinney during this long time of Mac's illness is an inspiration to all of us!

Congratulations to the Irl Everetts - they attended the graduation of their daughter Nancy, from the North Central Bible College in Minneapolis, Minn., on May 24. Nancy is spending a short vacation with her parents and then she will return to Minneapolis to work for the Billy Graham Association there, with whom she has been associated the past four years. Her future plans are to work in the foreign missionary field, namely in Brazil, South America.

Gary Everett is spending the summer in Lincoln and the Everetts daughter Janet Smith and her husband Fred, will be arriving soon from California. Fred will be on the staff of the Lincoln Public School System as a mathematics teacher.

Stanley Miller spent the Memorial Day week-end with his parents, Perry & Norma Miller; they look forward to seeing him again over the weekend of July 4.

Our graduate list includes James Rupert and Leslie Miller! Gradulations!

(continued next page)

DID YOU KNOW ? ? (continued)

Mrs. J. D. Young is recovering nicely from her recent illness.

Our dear friends, Mr. & Mrs. J. D. Young are brimming with the happy news of a new Great Grandchild! Lloyd and Kay (Young) Hinkley are proud Grandparents, and before I go on I must tell a most interesting story in connection with the Lloyd Hinkleys. While serving with the United States armed forces during the Korean War, Mr. Hinkley's good fortune was to find a little Korean house boy named Kim. Lucky little boy, because Mr. Hinkley adopted him, brought him to the United States and Lincoln, Nebraska, - all this in 1956.

Kim received his education in Lincoln, and during this time a correspondence began with a little girl named Nam Sook, living in Korea. After 5 years of writing, Kim, upon receiving his citizenship papers, returned to Korea to marry and bring Nam back. These wonderful young people are the parents of Bryan Kim - the Great Grandchild of the Young's! Congratulations!

The addition to the Korean story is, this reporter holds an Honorary Citizenship to Korea, received because of some charitable work for the Korean orphanages.

Dr. John Neihardt, the Youngs, and Mrs. Florence Boring, will travel to Salt Lake City, Utah, to attend the Gemboree; leaving the 16th they will drive leisurely, enjoying the sights as they go. In Salt Lake City they will be the guests of Mr. Young's niece in their mountain home, overlooking the city. These people are "rock enthusiasts", and also teach metalurgy in the school system in Salt Lake City. Good traveling to you!

Our "Profiles in Miniature" series continues with Mrs. Evelyn Ulrich, our club secretary, as our honored one this time:

Mrs. Ulrich is a native Nebraskan, having Shelby, Nebr. as her "ol' home town." She graduated from high school there, went on to Westmore College in Iowa for her Bachelors Degree in Music, namely voice and piano. She has conducted many girls and adult choirs, and served as pianist for the Polk Co. Teachers Chorus. Mrs. Ulrich also holds a Masters Degree in Education from the University of Nebraska. Evelyn tells me she will seriously take up painting again when she retires, as she loves it and has had training at York College in this field. Holmes school and the 5th grade there is fortunate to have Evelyn for a teacher; she tells me it's 13 years since she started there. Mrs. Ulrich's son, Glen, is connected with the Simmons Jewelry and we understand they both 'just love' the Black Hills of South Dakota for vacationing! A most interesting personality to know, Mrs. Evelyn Ulrich.

We are hoping for news of the Murdo Convention in the next issue.

- until next time - Marie J. Carveth

PS .. The weekend of June 21 Lloyd Lederer enjoyed a jaunt into Kansas where he met his son, Mike, for a few hours of fishing. Luck?

We're happy to hear that one of our young members, Rod Woodcock, a Junior at Fremont High School, has won first prize of \$25 at the Annual Science Fair held in Omaha by the University of Nebraska on May 3, with his display entitled "Oil in Nebraska." His was one of 250 displays from 25 schools in the area. It consisted of a model of an oil-well showing the various layers in the ground below, and an explanation of how the scientists know how to look for oil, because of the kind of fossils found on a particular layer and how it is formed. He was also invited to, and attended, a petroleum engineers conference and field trip. A fitting beginning for a young man who plans to study paleontology.

- Mac & Glenna McGinnis

Mr. & Mrs. Ewald Paul were in Chicago the week-end of May 18 in observance of the Confirmation of Mrs. Paul's niece and while there Mr. Paul visited the Lizzadro Museum of Lapidary Art, 220 Cottage Hill, Elmhurst, Illinois.

The Lizzadro Museum of Lapidary Art is a public museum founded to house and display gems, minerals and objects of art made of gem materials; to promote interest in the lapidary arts and the study and collecting of minerals and fossils. The exhibits consist of an outstanding collection of: gemstones, both precious and semi-precious, Oriental Jade, agate and ivory carvings, jewelry, cameos, crystals, minerals, fossils and materials used in the fashioning of gems, jewelry and carvings. Also dioramas with animals, fish and birds carved from stones. An interesting place to visit!

Our congratulations to Larry Pope, son-in-law of Louise and Lloyd Baugher, who has recently been awarded the Distinguished Flying Cross! Larry has been serving his country in the area of Vietnam and will return to the States June 29. Joanna and Larry, Jr. are looking forward to the reunion and anxious to resume life as a family again.

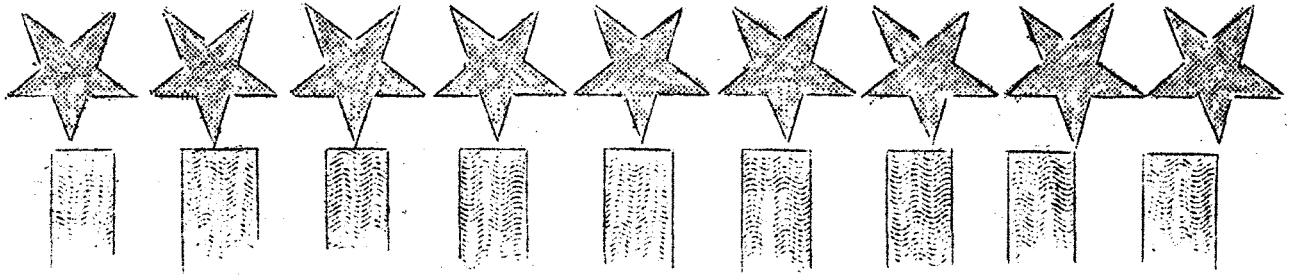
Several members of LGMC attended the Siouxland Gem & Mineral Show at Sioux City on June 7-8. There were many good exhibits by members and competitors with about 6 clubs represented in the competitive showing. Our own Roger Pabian was a judge of this event. A 16 year old junior member, Debbie Diamond, had the Best-of-Show exhibit. (thumb-nail minerals). Junior exhibits on the whole averaged 3 to 5 points higher than the adults.

Tod Ashmun is attending an 8 week Geological Field Camp, sponsored by the University of Nebraska in east central Nevada. (Any chance of having a report on this at a later date, Tod?)

Jerry Kohn and Howard Taylor have must returned from Glenwood, Minnesota. Jerry reports that the weather was cold but the fishing was hot.

Roger Pabian is proud owner of a three year old, black Afghan and is anticipating attending obedience school with the new acquisition.

A little bird told me that Roger Pabian's new fossil book will have many identification keys on how to identify the fossils we find. When is the book available, Roger? Soon, we hope.



THINGS UNDONE

It isn't the thing you do;
 It's the thing you leave UNDONE,
 Which gives you a bit of heartache
 At the setting of the sun.

The tender word forgotten,
 The letter you did not write,
 The flower you might have sent,
 Are your haunting ghosts tonight.

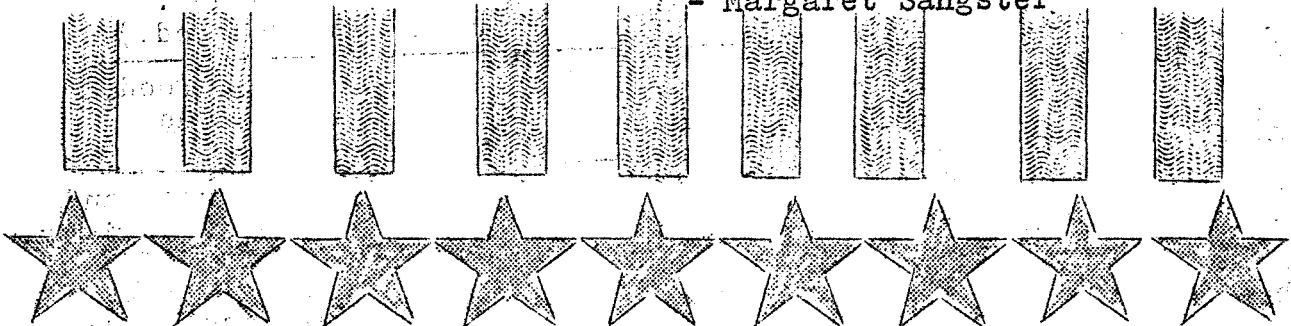
The stone you might have lifted
 Out of a brother's way,
 The bit of heartsome counsel
 You were hurried too much to say.

The loving touch of the hand,
 That gently winsome tone,
 That you had no time or tho't for
 With troubles enough of your own.

The little acts of kindness
 So easily out of mind;
 Those chances to be helpful
 Which everyone may find.

No, it's not the thing you do,
 It's the thing you leave UNDONE
 Which gives you the bit of heartache
 At the setting of the sun.

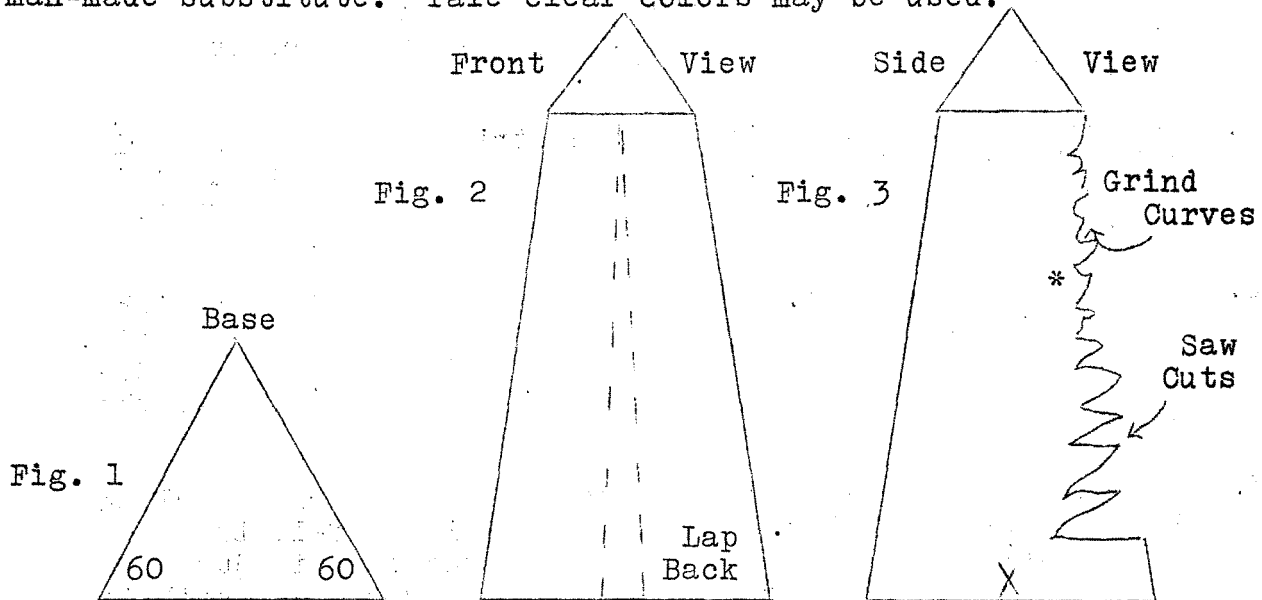
- Margaret Sangster



Poem contributed by Mac

PAGODAS CAN BE FUN ... HOW WE CUT OURS ... by The Feilens

The first requirement is a nice big clear quartz crystal or a big chunk of clear bubble-free glass. Quartz is much nicer, for when and if you finish, a natural mineral is preferable to a man-made substitute. Pale clear colors may be used.



1. Saw a tapered 60 degree equilateral triangle according to the size of your rough. The larger the better.
2. Grind the top juncture. Any pleasing shape will do.
3. Lap in back edge as shown in figure 2. 220 grit is fine.
4. Lap all other surfaces with 220 grit, follow by fairly close lapping with 600 grit.
5. Polish all flat surfaces except the back edge. The polish here does not have to be perfect for we will redo it at a later phase.
6. Balance up your blank on the trim saw so the back edge is at right angles to the saw blade. Saw shallow but definite grooves into this edge at random or progressive intervals. Try to keep the grooves straight at its depth and not curved as the saw blade is.
7. Wash and clean the beast.
8. Using a Foredom tool or a similar flexible-shaft tool and a small grinder, connect the saw cuts with a curved plane as shown in figure 3.
9. Remove grinding marks from these surfaces with a 220 sander. Small cloth discs work well or the coarsest Cratex may be used. Do not finish these surfaces further for they are

(continued next page)

PAGODAS (CONTINUED)

necessary in creating the illusion wanted.

10. By now you can see the final picture developing through the face of the triangle. Really Asian isn't it? Or is it? Curves and clean junction lines on the back will make it so. So clean them up. Do not worry too much about ragged edges at this time.
11. Now re-lap the three sides of the triangle using 220 grit, 600 grit and 1200 grit. We find it preferable to do this on glass by hand. Wash up carefully between each grit, concentrating on back edge where grit catches.
12. Now comes the polish. To minimize distortion, we polish with cerium oxide on Pellon paper or parchment, not cloth. We fix the Pellon to a cast iron lap with Peel-em Off Cement. Use a creamy mixture of polish and don't spare the pressure.
13. Now sand the top and front edges with well worn 600 cloth using plenty of water. Polish these with a felt buff using Cerium Oxide as before. Leave the base in just a sanded state for contrast. Bet all the work was worth it when the first glimpse of the three dimensional pagoda popped out.

Thoughts concerning three dimension illusions or reflections:

The prism made by cutting an equilateral triangle reflects from side to side and the out the front. The left side image is reflected to the right and vice versa.

Taking advantage of this phenomenon and wondering what the asterisk and X is doing in figure 3? Well, the asterisk is an ideal location for a small dot drilled into the pagoda and not polished. It will appear as a Japanese lantern from both sides. The X is a nice spot for a bush or a carved banzai tree. Two for the work of one. Variations can be made in the form of decanters, chalices and what else, is only up to ones imagination and artistic inclinations.

If you ever get bored with cabs and faceting, try things like this. Peppy little pep pills for both you and your cabinet.

via THE ROCKPILE and ROCK CHIPS

(Try some of these - they sound like fun! With long daylight evenings at hand some of these could appear in time for our show Sept. 27-28. Be thinking about that and DO SOMETHING...) nm

Eskimo artists, we are told, when they carve ivory, do not begin by deciding what to carve. They say, "I wonder what is inside," As they carve, they gradually find it. It was there, waiting for discovery and release. -Erik Barnouw - NY Times book review

SCANNING THE NEWS via Business Trends - Costume Jewelry back "in" this spring and summer. The "in look" of multiple rings, popularity of pierced earrings and the suitability of wearing more jewelry creates a demand for a more colorful jeweled accent. (J. Parks)

via THE WALL STREET JOURNAL-4-21-69. Newark, NJ - Rhodium price cut to \$235 and \$240 per troy oz. Rhodium is used chiefly to harden platinum and palladium.

via NATIONAL GEOGRAPHIC, 5-69. The 65 lbs. of soil and rock that Apollo astronauts soon hope to collect from the moon will undergo intense scrutiny. It will be measured and weighed, checked for radiation and magnetism, tested with spectrometers to learn their chemistry, and x-rayed for mineral make-up.

via THE REAR TRUNK-The Crater of Diamonds and the Arkansas Diamond mine at Murfreesboro, are closed as of Febr. 27. A spokesman for the mines said the two have been sold to the General Earth Minerals Co. in Dallas. Visitors will no longer be permitted in the mines as the Texas based firm plans to install commercial mining equipment.

via THE GLOBE-GAZETTE, Mason City, IA - To improve the appearance of sodium chloride, sprinkle it on a nice juicy steak.

DECEASED...Glen Bowen passed away April 20. He was a member of the Nebraska Gem & Mineral Club of Omaha.

Today the world's production of the black opal is in the hands of about 35 miners despite the fact that over the past 5 years of world prosperity the export market for Australian opals has risen to \$9 million a year.
via-MESABI MEDIA

LAPIDARY HINTS...for dopping a large number of cabs at one time use an old electric frying pan. This gives you good control of the heat and a minimum of breakage. C. Jackson-Magic Valley Gem

FOR dopping small heat-sensitive cabachons use Quick-Set Epoxy with wooden golf tees. They provide a good handle and are easily released when soaked in acetone.

BLACK PETRIFIED WOOD can be soaked in household bleach such as Clorox to bring out the growth rings in an otherwise plain black slab. Avoid using metal containers as they react with chemicals. Cover and let stand for several weeks; once a week add bleach. The slab should be ground and sanded before soaking as the bleach does not penetrate too deeply.
via GEM NEWS

FROM 5 to 20 feet of ordinary bathroom tissue is effective to lessen the action or violence of the tumbling action and suspend the grit. The tissue breaks down into fiber and thickens the mixture. via the XL GAZETTE

AND, to speed that rough grind in your tumbler, add a quantity of oatmeal. It will cushion those precious stones and hold the grit to them for a faster grinding action. It will also wash off easily with plain water.

TAKE YOUR CERIUM OXIDE residue left from tumbling, strain it through a piece of cheesecloth or a nylon stocking and use it to polish the chrome on your car - or any other chrome.

USE a brass brush as an efficient way to clean silver before soldering. It will also take out fine scratches. Use a circular brush and the center hole will fit the tapered spindle of the polishing motor. ROCKATIER

INFLAMMABLE ROUND ROCKS SCATTERED ON RESERVATION

Scattered among irregular fragments of shale at Kettle Point Indian Reservation in Ontario, Canada, are rocks that are so unusually rounded that they resemble inverted sugar kettles of the pioneer days.

Called "kettles" for this reason, they range in size from a few inches to several feet in diameter. The nearly perfect spheres are known to geologists as "concretions".

Found in the Huron Shales area of Southwestern Ontario, they are crystal formations that have taken thousands of years to grow. Produced by a chemical action in the rocks, they have grown in a radial formation.

Breaking the kettle reveals some strange facts. Many of the small fractured pieces, when examined under a powerful magnifying glass, have interesting and unusual crystal patterns. The odor of oil or pitch comes from rock when it is broken. Kettles are actually bituminous and inflammable.

Growth of the strange spheres has been a slow and steady action, exerting tremendous pressure on the surrounding shales. On examining the various layers, one can see how they became distorted as the kettle increased in size.

Huron Shale covers 960 square miles of Southern Ontario. The kettles, first discovered in 1863, are found only in the exposed section of shales along the reservation beach. The present low-water level of Lake Huron is revealing many more of these peculiar formations. It is illegal to remove kettles from the reservation, but the hospitality of the Indians makes it possible for visitors not only to see but also to photograph the phenomenon.

from GRIT Family Section via GEMS Kalamazoo, Mich.

* * * * *

BENITOITE...THIS GEM MATERIAL IS UNIQUE IN THAT IT IS FOUND only in one location in the World - near the headwaters of San Benito River, San Benito County, Calif. Cut gems of this material are always small and the largest known gem is only 7½ karats and is in the Smithsonian Institution in Washington, D. C. The color of the gem runs from colorless to fine intense blue and gems of the finest color rival the finest sapphire blue. Benitoite has a hardness of 6.5 and a relatively high refractive index of 1.76 to 1.8.

-by Cliff Jackson via Magic Valley Gem News

* * * * *

LAST MINUTE NEWS: Mac & Letha McKinney have just returned from a weeks vacation, tired but happy. Mac says he has done much exercise and is back in good shape again.

Howard & Marie Taylor are leaving early in July for Wyoming and other points of interest for rock hunting.

Lloyd & Louise Baugher have taken in the Field Trip Convention in S.D. and have gone on to the National Show in Salt Lake City.

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. 96 - June 1969

HEADQUARTERS — MURDO, SOUTH DAKOTA

Field Trip Convention Time Is Here

On Thursday, June 13, the long months of planning will be over and the Midwest Federation 1969 Field Trip Convention will open at its headquarters in Murdo, South Dakota.

The extensive plans to make this years Field Trip Convention one of the Midwest's finest have been completed and Bob Wilson, Convention Committee Chairman, reports that all is ready for the June 13 opening.

Any MWF member who has not made reservations should do so immediately by contacting Mr. Wilson in Murdo, S. D.

* * * *

There will be transportation provided for the Field Convention at a donation cost for less than the cost of driving your own car. Each vehicle, holding from 15 to 40 passengers will have an experienced driver and one or two trained Guides.

Baby sitting service at moderate fees will be available at Murdo.

Camping space provided by Murdo Lions Club will have showers and other facilities handy and will be lighted. Plenty of space still open. This area will be well guarded at all times.

There will be a Micromount meeting Friday evening at the Convention for Federation people interested in learning about micromounting. This will be led by Mel Moyer, Sioux Empire Gem and Mineral Club.

There will be some hunting in the Murdo area on Thursday.

A teen age party is being planned in addition to the childrens party. (Childrens party is for grade 1 through 6 or 7.)

The South Dakota Geological Survey is publishing rockhounds and pebblepups maps of the state.

Rangers of the National Grasslands Association will help in the field and Lt. Col. Palmer Kickland, Squadron Commander of the Sioux Falls Emergency Services Unit of the Civil Air Patrol, has notified the Midwest Federation that the Sioux Falls Senior Squadron is happy to serve the Field Convention in South Dakota this month. The Civil Air Patrol will have Jeeps, aircraft, and trained personnel to help us keep the Field Trip secure, safe, and successful. The Civil Air Patrol is a private volunteer organization, chartered by Congress as an auxiliary to the Air Force. The MWF is indeed grateful that such highly qualified people will be helping us. This is probably the first time that a unit of the Civil Air Patrol has been asked to assist with this kind of a convention. We thank them.

1969 DIRECTORY

The 1969 Midwest Federation Directory has been completed and two copies have been mailed to each of 210 clubs, and one copy to each member of the Executive Committee. If your copy is not received within a reasonable time after June 1st, kindly write to P.O. Box 1130, Des Moines, Iowa 50311.

AFMS UNIFORM RULES

-from Margaret Yanasak, URC Chairman

The following ruling by the AFMS Uniform Rules Committee are in effect for competition under the Uniform Rules for 1969.

IV-69 Onyx, as a name on the Gem List for a sub-variety of agate, shall be valid only for natural black and white, straight banded agate.

V-69 The dyed black chalcedony, often mis-labeled as "Onyx", may not be used in competitive exhibits (see Rule C6, UR). Such a specimen will be ruled out-of-class under Rule C-2, UR.

VI-69 "Onyx" is discredited as a valid name for any variety or sub-variety of calcite. The correct name for the stalagmitic calcite, often mis-labeled as "onyx" is either ONYX MARBLE or ONYX-MARBLE. Please correct your Gem Lists accordingly. If this material had been formed in rivers, springs, cave walls, or flat on cave floors, the correct terminology would be TRAVERTINE.

* * * *

There are still available copies of the Uniform Rules and Gem Lists. Those who are interested in competitive exhibiting should order these now, while the supply lasts, and acquaint themselves with the basic rules. There is no charge for these to the club members. Order from Margaret Yanasak, 3421 S.W. 14th Street, Des Moines, Iowa 50315.

MARIE BEELER

Anti-Litter Chairman, and her assistant, Peter Rookus, say thanks for being so prompt in sending in the Anti-Litter flyers which went out with the recent Newsletter. The response shows that the Federation is really concerned about this problem. Marie has informed the Bureau of Land Management, the Forest Service and the National Grasslands Association that we intend to follow the rules of the outdoors and the AFMS Code of Ethics at the Field Convention this month. Peter says our big effort should be in leaving no litter ourselves, and teaching others about the expense and danger of litter.

A DISPLAY OF ALL CLUB BULLETINS

will be a feature at the National Gemboree of the Rockies at Salt Lake City, Utah this month. If your club wishes to have its bulletin displayed with

A LETTER TO THE EDITOR

To the Editor:

I note in Midwest Newsletter that some regard the word "rockhound" as derogatory. I am an avid rockhound and have also had wide experience with hounds. I take my hat off to these highly bred and trained dogs, in their specialty. They have characteristics admirable in the human race, such as, adherence to discipline, tenacity in pursuit of objectives, enthusiasm in their work, loyalty, to name just a few traits.

I have seen wolf hounds follow a wolf track for ten hours or more, even when the snow was crusty and their feet was becoming sore and bleeding. I have seen Coon hounds stay at a tree 'till daylight, waiting for the master to come and help them. I have seen bird dogs freeze at the scent of a bird, with one foot in the air and remain immobile 'till the hunter flushes the bird. Those who speak disparagingly or feel degraded by the term "rockhound" surely have had little experience or knowledge of good hunting dogs.

I am proud and honored to be called a "rockhound" and hope I never tarnish the word by being less loyal, trustworthy, honest, or faithful than some of the hunting dogs I have known.

Yes, there are curs in the dog family, also there are rats in the human family. This fact shouldn't condemn either group should it?

-Amel Priest, Peru, Iowa

over 600 others, a neat, flat mailed, copy should be sent immediately to AFMS Club Publications Chairman, June Zeitner, Mission, South Dakota 57555.

UNTIL SEPTEMBER

This June issue will be the final issue of the Newsletter until September. Our usual summer recess... July and August, no issues are published.

Congratulations and appreciation to the following clubs whose contributions have advanced their status in the Scholarship Foundation.

100% -

Ishpeming Rock and Mineral Society
Blackhawk Rock Club (Rockford, Illinois)

200%

Lake County Gem and Mineral Society
Cedar Valley Rocks and Minerals Society

300%

Earth Science Club of Northern Missouri
Lake County Gem and Mineral Society
Wabash Valley Gem and Mineral Society

400%

Lakeland Gem Club

600%

Chicago Lapidary Club

800%

West Suburban Lapidary Club.

We also wish to thank the folks attending the Lincoln Missouri Field Trip and Rock Swap last fall for their generous check that they sent to the Foundation. Quite a number of our clubs are sending in checks for gifts received during their annual Rock Show.

Also thanks to Marvin and Pearl Kuhlman for their generous gifts that brought to them one of our Founders Certificates.

Many of our clubs are sending in monthly packets of Betty Crocker coupons. These coupons are worth 1/2¢ for each point. To make saving them easier we can supply your club with the Betty Crocker Cupboard Door Envelopes, one for each family. If you wish them for your club families write to the MWF Scholarship Chairman.

Be sure to purchase your new MWF Directory and turn at once to the pink pages at the back of the directory (pages 63-64) where all the 100% or better clubs are listed. Is your club in this exclusive list of those that are really helping educate young scientists? If not, why not? Just 200 Betty Crocker coupon points are worth \$1.00 and it only takes \$1.00 per member in cash or coupons for your club to become 100%.

Katharine Steinbrenner (Mrs. W.H.) , Chm.
2813 Patricia Drive
Des Moines, Iowa 50322

WELCOME NEW CLUBS

LICKING COUNTY ROCK AND MINERAL SOCIETY

Newark, Ohio
President: J. Robert Little

JACKSON-JENNINGS ROCK AND FOSSIL CLUB

North Vernon, Indiana
President: E. C. Auerswald

KICKAPOO ROCK AND MINERAL CLUB

Danville, Illinois
President: Ray Springs

PARK FOREST EARTH SCIENCE CLUB

Park Forest, Illinois
President: James Edwards

NORTH EAST IOWA ROCK CLUB

Sumner, Iowa
President: Gus L. Belschner

WHEN HARRIET GEORGE

Nomenclature Chairman, accepted her job for the Midwest Federation, she had no idea that she would soon Chair an important sub-committee for the AFMS. Her assistant, A.A. Catlin, suggested that the Gem List of the AFMS could stand revising. Harriet saw the need and knew that it was an AFMS problem, not merely a Midwest problem, so Harriet wrote John Pata AFMS Uniform Rules Chairman. You guessed it, John gave Harriet the job. Harriet and AA have turned in an excellent report.

JAY WOLLIN

Thought that a manual for fossil collectors, to help them understand the Rules, and to make competition easier and more appealing to them, would be a service for the Federation members. Jay has been given Midwest approval on this forward looking project. Jay is chairman of our Paleontology Division.

Eliminate Litter

KALEIDOSCOPIES

are enjoying renewed favor as a means of enhancing the beauty of your rock slabs. John Willhammer, engineer and author of *Rock Polishing for Everyone*, presents his original design for a kaleidoscope in the July-August issue of *Earth Science*. In the same issue will be "Trilobites of the Grafton Area" by Bruce Whitney, which Dr. E. S. Richardson describes as a "source" article; and a nostalgic piece by Midwest Treasurer B. G. Dahlberg on the appealing "Barnyard Miniatures" he displayed at Normal last year.

MEET YOUR EXECUTIVE COMMITTEE by June Zeitner, President

Education Chairman - Gail Alexander is Chairman of our important Education Committee. She has the job of coordinating the work of all of our Divisions in any areas which are chiefly educational. Last year she finished a splendid bibliography for us which list free publications as well as publications which you might like for your club library or which you might like to have for your own collection. This bibliography is the most extensive ever done in this field and will be published soon. Gail also helps the AFMS Educational Committee pick out the All American Clubs. If your club is working on Educational and civic projects you may be eligible. Gail's Committee's long range plans include working out an exchange library program and getting new ideas for Junior Clubs and Junior members.

Gail is a widow. She has an M.A. Degree in Education and teaches in Marion, Indiana. Her two daughters are married. She is editor of the *Crystal Gazette* and was Secretary and Director of the Grant Geological Society. She collects minerals and cuts gems and is now taking silversmithing. Like most of us, Gail loves to travel... in the general direction of rocks.

Newsletter - A member of the Executive Committee who has great responsibilities and is doing a superb job for us, is your Newsletter Editor, Haydon Peterson. Haydon is so modest about what he is doing for the Federation that I will probably have to force him to publish this. An Editor's job is similar to an actor's, "The show must go on". So pushed by eternal deadlines, Haydon each month assembles and prints not only the Newsletter, but all the many extras your club gets throughout the year. He mails his neat printed materials out by the thousands. Our Newsletter is the best distributed of any Federations. Not many executive members have ever devoted more time

and thought to the Federation than Haydon. Your Federation Directory is another job he prints and mails for us.

Haydon, and his wife Jeanette, live in suburban Des Moines and are members of the Central Iowa Mineral Society, which he served as its bulletin editor for several years. Haydon owns and manages Parrot Film and Printing Service in Des Moines. The Peterson's are interested in most aspects of the hobby, and have traveled widely on field trips and to attend shows. Thank you Haydon for your good work for all of us.

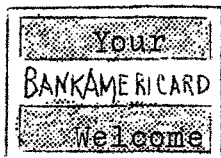
NEWS NOTES

Miriam Pierce reports that the Special Display information is coming in better, and Marie Beeler says she is gratified with club response to the Anti-Litter program. Max Holliday has had exceptional cooperation with clubs on setting up Safety Programs. Verne Montgomery is gratified that many clubs have asked their State V. P. about having official Federation booths for their shows. Kate Steinbrenner says that most clubs are still actively supporting the Scholarship Fund. Con Peterzen writes that Phyllis Parks is inundated with bulletins to judge. Gail has carried home armloads of All American Merit entries. In other words the clubs have been busy, and the Executive Committee is busy. We are working together for a strong, vital, bright future.

THERE ARE SEVERAL ROOMS

available (at press time) in Murdo at the H. Motel and several at the Graham Motor Lodge. These are new units. Also modern camping space available in Kadoka.

MIAMI VALLEY MINERAL & GEM CLUB, 5th Annual Rock Swap, June 21-22, Donnelsville, Ohio.



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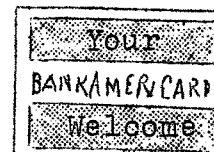
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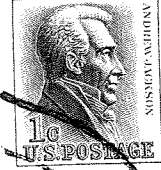
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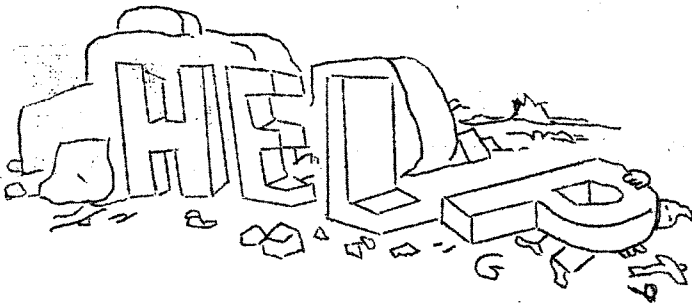
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