

THE PICK & SHOVEL



October

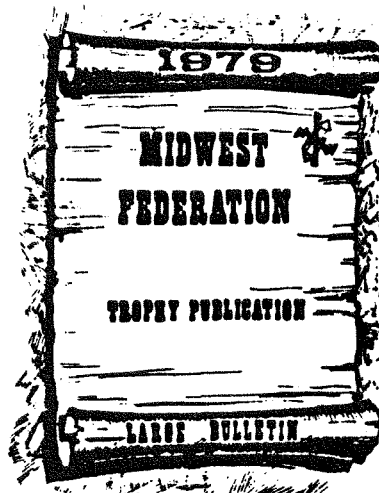
1981

highlights

*in
this issue...*

"SMITHSONIAN ADVENTURE"
by Florence Boring

"FIRE - Friend and Foe"
by J. D. Young



OFFICIAL PUBLICATION OF

Lincoln Gem and Mineral Club, Inc.

P. O. Box 5342

Lincoln, Nebraska 68505

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

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

MEMBER: American Federation of Mineralogical Societies (AFMS)
Midwest Federation of Mineralogical and Geological Societies (MWF)
Nebraska Association of Earth Science Clubs, Inc. (NAOESCI)
Nebraska Academy of Sciences (NAS)
Community Arts Council of Lincoln (CAC)

Regular Meetings: 4th Saturday of the month, September thru May; 7:30 P.M.
At Nebraska Center, 33rd & Holdrege

1981 ELECTED OFFICERS:

President.....Roger Pabian	315 'D' St.	Lincoln, 68502	474-2034
1st Vice Pres...Irl Everett	2945 N. 65th St.	Lincoln, 68507	466-6204
2nd Vice Pres...Howard Taylor, Jr.	910 New Hampshire	Lincoln, 68508	476-3707
Secretary.....Nelda Oliver	5700 Otoe	Lincoln, 68506	489-5222
Treasurer.....Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member....Ray Lambert	1201 N. 79th St.	Lincoln, 68505	464-8552
Board Member....Virginia Green	6120 The Knolls	Lincoln, 68512	423-5032
Board Member....Lois Everett	2945 N. 65th St.	Lincoln, 68507	466-6204
Board Member....Florence Boring	2836 S. 40th St.	Lincoln, 68506	488-6243

Nominating Committee--3 years: Marie Taylor, Jim Parks
2 years: Bob Walker, Irl Everett
1 year: Wilfrid Wittman, Edwin Johnson

STANDING COMMITTEE CHAIRPEOPLE:

Programs.....Howard Taylor	1981 Show.....Howard J. Taylor, Jr.
Education.....Ray Lambert	Liaison/Calling.....Marie Taylor
Hospitality.....Bob & Mary Walker	Refreshments/Party...Marj Heedick
Historian.....John & Lillie Lewis	Scholarships.....Howard Taylor
Librarian.....Jim Parks	Outside Displays.....Frank Rule
Membership.....Mary Lambert	Housing/Property.....Bruce Simon
Field Trips/Safety..Walt McCoy	Publications.....Glen & Flossie Litzenberg
Sunshine Corner.....Susan Taylor	Junior Activities....Mary Walker
NAOESCI Reporter....Vera Lyman	Auditing Comp.1980....Howard Taylor, Vera Lyman, Florence Boring

LONG RANGE PLANNING AND BY LAWS COMMITTEE:

1 year-Nelda Oliver, John Harrison 2 years-Jim Parks, Phyllis Parks
3 years-Howard Taylor, Marie Taylor

PICK & SHOVEL STAFF:

Chairman: Glen Litzenberg

Editor.....Vera Lyman, 420 N. 56th St. Lincoln, NE 68504
Club News.....Helena Baegl
Sunshine.....Susan Taylor
Circulation...Glen & Flossie Litzenberg

DEADLINE: 1st of Month of Issue. Original articles may be reprinted if credit is given the author and THE PICK & SHOVEL and a copy of the publication is sent to the Editor.

OCTOBER

General Meeting: Saturday, October 24, 1981 7:30 P.M.
Nebr. Center for Continuing Education
33rd & Holdrege Lincoln, NE
Norfolk Room

Parking available north of building

Regular business meeting beginning
at 7:30 P.M. followed by a special
program:

"Agate Filled Thunder Eggs From Oregon"
presented by Roger Pabian

Board Meeting: Thursday, November 5, 1981 7:30 P.M.
1435 North 24th St. (Litzenberg home)

Jr. Activities Meeting:
Friday, October 16, 1981 7:00 - 8:00 P.M.
822 LaBrea Av. - Walker home

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ANNUAL CLUB SHOW: Lincoln Gem & Mineral Club
March 27 & 28, 1982
Agricultural Hall, State Fairgrounds
Lincoln, Nebraska

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OCTOBER

"There is something in October
sets the gypsy blood astir;
We must rise and follow her."

Bliss Carman

"It sets my heart a clickin' like the
ticken' of a clock
When the frost is on the punkin and the
fodder's in the shock -"

James Whitcomb Riley



AMERICA IS A BEAUTIFUL COUNTRY. LET'S KEEP IT THAT WAY BY KEEPING
IT LITTER-FREE!

HISTORY - "Ten and Twenty Years Ago"



October 1971 . . . Our Club was still at the WOW Building. Program was by Roger Simmons on "CRYPTOCRYSTALLINE QUARTZ".

Congratulations to Howard Taylor as he was elected "State Director for the MWF" and "Vice President Elect for NAOESCI".

We had a Field Trip to Osborne, Ks for Septarians and Ammonites - Marie Wells was our Field Trip Chairman.

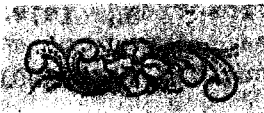
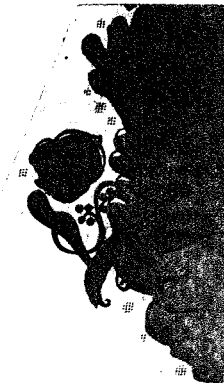
October 1961 . . . Our 3rd Show was a Great Success. All the committees worked real hard and Dr. Des Gibson had nothing but praise for the Kitchen Help. It was called an "Outstanding Show".

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SUNNY GREETINGS FROM THE SUNSHINE CORNER:

Sometimes we may not realize
that everything we do
Affects not only our lives
but touches others, too.
A single happy smile
can always brighten up the day
For anyone who happens
to be passing by your way,
And a little bit of thoughtfulness
that shows someone you care
Creates a ray of sunshine
for both of you to share

- Karen Raun



This past month Get Well cards were sent to Mr. and Mrs. Albert Olson and to Miss Helena Baegl.

Get Well fast all of you!
Suze Sunshine

P.S. I received a letter from my "adopted Grandparents" - - the Olsons from Ceresco, Nebraska.

They have both been on the "sick list" during the summer months and have been unable to attend the summer meetings, due to hospitalization for both of them.

I hope they're able to get out and enjoy our beautiful Nebraska autumn colors and warm sunshine!

Suze Sunshine

THE PRESIDENT'S MESSAGE

Agate filled thunder eggs will be the subject of the program for October. Thunder eggs are very interesting in several respects. First, they occur in volcanic rocks called welded ash flow tuffs. Such rocks occur as a result of explosive eruptions of volcanoes similar to Mount Saint Helens. Thunder eggs are often abundant in such rocks. Thunder eggs contain agate in its "most primitive" state.

Much of the Pacific Northwest is covered by layers of volcanic rock that includes rhyolite, obsidian, and vitrophyres. Thunder eggs form as a result of devitrification of volcanic glasses such as vitrophyre. In this respect, thunder eggs are primitive. They are probably the first step agate takes in what we might call an "agate cycle." In young volcanic terranes such as one finds in the states of Oregon and Washington, the basaltic rocks that commonly underlie the rhyolitic ash flows are devoid of agate. In geologically old volcanic terranes such as in the Big Bend Country of West Texas, the overlying ash flows are commonly deeply weathered and eroded from over the basalts. These basalts are commonly rich in agates. In fact, Andy Zarins estimated that some 43 million cubic meters of agate exist in the Cathedral Mountain Quadrangle of west Texas alone.

In a volcanic terrane, the oldest rocks are commonly the tholeiitic basalts. These may underlie the rhyolitic ash flow tuffs. Agate may first form as a devitrification product of the volcanic glass. The glasses simply alter to crystalline minerals and much free silica is released in the process. Volatiles which were in solution in the glass form cavities within the host rock and these cavities subsequently fill with chalcedony. The result is an agate filled thunder egg. There are no "mud balls" or any thing of sedimentary origin in thunder eggs. One can learn many more details than this page allows by attending the meeting and hearing the program.

Thunder eggs are apparently the source of many of the dendritic agates that occur in stream deposits in the Pacific Northwest. Dendrites of iron and manganese minerals form in spaces between horizontal layers of chalcedony that assumes the agate-onyx form. Thunder eggs in the del Norte area of southwestern Colorado contain rare dendritic patterns. These are more desired than the famous plume agates that are found there. Lapidists searching for plumes look for black or red spots lying between the parallel bands. A cut is then made parallel to the bands. Sometimes an exceptionally fine dendritic pattern is the pay for such diligent search. Could the common Oregon, Blue Bed thunder eggs contain such elusive dendrites? A few hundred well aimed cuts may tell.

Will see you all at the October meeting.

Roger Pabian
President

For me, this is one of the most beautiful months of the year. With all the many colors around us, the beauty of nature becomes a reality.



"The falling leaves - -
Drift by the window
The Autumn leaves of red and gold.

Now - - to more serious business. I am soliciting your help as members, with the Pick & Shovel. I need someone to collect Club Highlights or activities Helena did this for some time, but has indicated to me that it was getting too difficult for her and she would like to give someone else a chance to help.

I also need help with the Junior Page; including activities, puzzles, crossword games, quizzes, educational tid-bits, whatever you feel is appropriate.

Also, any articles you feel would add to the interest of our Club Bulletin. This is not just the duty of the Editor, it is the responsibility of all Club Members.

Anytime, anyone suggests an article for print or submits it to me, you will be given personal credit for it.



MAKE THIS AN EXCELLENT BULLETIN!

Thanks, (in advance) for your help.

Your Editor, Vera

* * * * *

Please make the following changes in your personal copies of the Who's Who.

Norman Balliet
2723 2nd Av.
Rt. 1 Box 156
Central City, NE 68826
(308) 946-3231

He can be reached at Central Drug, Monday thru Friday.

Jim & Chris Oliver and Anne
5700 Otoe St. 68506
489-5222

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Lincoln Gem & Mineral Club, Inc.
Board of Directors May 5, 1981

The Board Meeting was called to order by the President, Roger Pabian on May 5, 1981 at 5700 Otoe with 8 Board members present and Vera Lyman.

Minutes of the April meeting were read and approved.

Treasurer's report was read. Motion by Ray Lambert and seconded by Jim Taylor to approve as read. Carried.

Club bill read as follows: Nebr. Center March rent, \$38.98; Glen Litzenberg April Pick & Shovel mailing, \$24.86; Phyllis Parks for 1970 thru 1974 binders for Library, \$5.11. Motion by Ray Lambert to approve, seconded by Florence Boring. Carried.

1980 Show bills were read. Motion by Ray Lambert and seconded by Florence Boring to approve. Carried.

Show Chairman, Jim Taylor reported approximately \$500.00 profit on the 1981 Show.

Leader film for the film "Gems of the Americas" was discussed. A motion by Jim Taylor for leader to state "THIS FILM HAS BEEN DONATED BY LGMC WITH DATE AND 1981" and Club Seal. Seconded by Lois Everett. Carried.

A motion by Jim Taylor after discussion that information on LGMC is available at Bennett Martin Public Library; seconded by Florence Boring. Carried.

A discussion on the film library closing down. There will be a stipulation: "If film library closes down or is suspended, film will be returned to LGMC." Motion by Florence, seconded by Ray Lambert. Carried.

News Release of Gems on Location by Phyllis Parks was passed for officers to read. Guide lines on where and where not to display Gems on Location was discussed.

NEW BUSINESS:

Membership: Application for membership for Virginia Reller, Claude and Gail Scott, Blaine Profit were read. Motion by Ray Lambert, seconded Florence Boring to approve. Carried.

Reinstatement for Bev & Paul Rueter. Motion by Jim Taylor to approve, seconded Virginia Green. Carried.

Summer meetings discussed. 4th Sat. of June, July and August at 7:30 P.M. Program meetings only.

May 23 General Meeting, no change in date.

September Board Meeting will be the 3rd at Roger Pabian's home at 315 D Street.

Board of Directors May 5, 1981 - - continued

Roger asked for delegate to MWF July 23-26. No volunteers. Will need to check at General Meeting.

Field trip May 24, 1981 to Humboldt, Table Rock area for agate and fossils. South side meet at Walt's Station at 56th & Hwy 2. Others meet at Nebr. Hall at 9:00 A.M. Bring sack lunch.

There will be an NRL meeting May 8th.

Motion by Ray Lambert to adjourn, seconded by Jim Taylor.

Howard Taylor arrived and meeting was reopened.

Howard presented to the Club a check for \$100.00 from Red Lobster for balance on advertising in the program, to defray printing cost. \$204.00 from Alexander & Alexander Insurance Co. on Insurance premium. \$1650.00 from Michiana Rock & Gem Club for cases. Motion by Ray Lambert to accept the monies, seconded by Virginia Green. Carried.

A discussion on the monies. . . .
Motion by Jim Taylor we recommend to the general membership to increase the scholarship fund to \$5000.00. This will take \$489.00. \$250.00 into the UNL Foundation for 1982 Scholarship fund. \$250.00 to make a total of \$1000.00 to the Nebr. Academy of Sciences to go to the Junior or Senior high school level scholarship fund, and the balace into the general fund. Seconded by Ray Lambert. Carried.

Motion to adjourn by Ray Lambert, seconded by Jim Taylor.

Nelda Oliver, Secretary
* * * * *

Board of Directors Sept. 3, 1981

LGMC Board meeting was called to order at 7:30 P.M. Sept. 3, 1981 by President Roger Pabian at 315 D Street with all board members present, Howard Taylor and Vera Lyman.

Minutes were read and approved with correction.

Treasurer's report was read. Moved by Irl Everett to approve as read. Seconded Virginia Green. Carried.

Bills were read - \$250.00 Academy of Sciences; \$250.00 to UNL Scholarship Foundation. Moved by Virginia Green and seconded by Ray Lambert to pay bills as read. Carried.

Jim Taylor gave a semi-final report of 1981 Show. Report to be printed in Pick & Shovel.

Board of Directors Sept. 3, 1981 - - continued

Summer meetings were discussed - Roger stated attendance was not adequate to justify summer meetings. To be taken back to membership.

NEW BUSINESS:

After discussion on Money Market, a motion was made by Irl Everett that we add \$1672.35 to bring our money market certificate up to \$15,000. Seconded by Virginia Green. Carried.

Announcements: Farel Hyland passed away August 30th.

Limestone mine field trip - 24 people from Lincoln & Columbus came on trip. There was a museum tour and picnic-quite a few fossils found. Discussion on conduct of members from both clubs. An article on conduct will appear in P & S.

Gems on Location at Morrill Hall Encounter Center. Kay Young is in charge. This has been on display since last November.

A project for the club discussed: Lincoln cases to display at Rest Areas. Before we take on any more projects we need to finish Nebr. Gems on Location first.

There is a club display at the State Fair at the UNL display by the fish.

Delegates to NAOESCI: four selected by Roger for the Omaha State Show Sept. 6 are: Phyllis Parks, Howard Taylor, Paul & Bev Rueter. State Show will have a silent auction for NAOESCI. Members were asked to take material to Omaha Show for auction.

Nebr. City show Sept 26/27. Roger asked for displays for both Omaha and Nebr. City.

Rosa Lee Ulrich has had surgery.

Discussion on scholarship - wait for report to send scholarship monies in.

Next Board Meeting Oct. 1, 1981 5700 Otoe 7:30 P.M.

1982 Show dates - March 27 & 28, 1982. Waiting to see if LGMC has State Show in '82.

Virginia Green excused from the next meeting.

Motion to adjourn by Florence Boring and seconded by Jim Taylor.

Nelda Oliver, Secretary

NOMINATIONS FOR OFFICE - 1982

The following persons have accepted nomination for office, as follows:

President	Roger Pabian	
First Vice	Jim Taylor	
Second Vice	Glenn Lyman	Bob Walker
Secretary	Pat Bury	Nelda Oliver
Treasurer	Phyllis Parks	

Board Members	John Abel
	Florence Boring
	Lois Everett
	Irl Everett
	Virginia Green
	John Lewis
	Jim Marburger
	Tom Simmons
	Mary Walker

Election will be held at the November meeting. Be sure to take note of those nominated for office and vote sincerely, for those who are willing to work hard for the welfare of the Club.

ATTENTION PLEASE

Submitted by Howard Taylor

* * * * *

"SLABS AND ROCKS FOR SALE"

At our October General Meeting, Mrs. Lorene Messelhauser will have some slabs and rocks for sale. Since she is planning to move sometime in the future, she would like to dispose of the material she and her husband had collected over the years.

The largest share of the slabs will be for sale at the meeting, but due to the difficulty of moving the larger rocks, they will be sold at auction soon after the General Meeting date. Also, anyone wishing to purchase any material from her at any time may contact her at her home; 1030 N. 48th St. Lot 46 466-1484.

Let's give her our support, she might have something that you would really like to have.

* * * * *

"1982 SHOW"

It seems as though we just finished putting on an Annual Show, but it is only 5 months until our next Show dates will be upon us. Time waits for no one. Please call and see if the job you'd like to do is still available. Many of them are! I will be having a "beginning" meeting sometime this month, and hope that everything will be in full swing by November.

- Vera, Your '82 Chairman



CONGRATULATIONS NEBRASKA BULLETIN EDITORS!

Chic Cihacek, Editor of the Loup Scoop, placed 3rd in the small bulletin contest, and Evelyn Ulrich, as 1980 Editor, won 2nd place in the large bulletin segment of the 1981 Midwest Federation Bulletin Editors Contest. Our heartiest Congrats to both of you lucky people.

Believe me, I heard it with my own ears at the Midwest Federation Convention at Notre Dame. . .our State Director, Marie Taylor and family never stopped "Patting us all on the backs". . .

My greatest wish from the experiences of the Convention is that all of the Clubs in Nebraska would take time to consider attending, or even consider sending delegates to help support our State and Director. I'm sure each Club in Nebr. has someone who could attend! Take pride in your State, your Club, and let's reconsider the possibilities of attending the Midwest Federation Show in St. Paul, Minnesota in 1982. The Show will be held at the Fairgrounds June 24th to 27th. The motto of the Minnesota Mineral Club is "The Thing to do in '82" is come to the Midwest Federation Show. Please contact Marie and let us NEbraskans give her our full support. As I said before, "You'll be thankful you took the time to attend, and support your Club and State!



- Mary McCartney
- via G. I. Nugget
- suggested for reprint by Marie Taylor

Congratulations are in order for you too, Mary McCartney, for First Place, New Editor Contest, American Federation and Sixth Place, Large Bulletin Contest, Midwest Federation.

- Vera Lyman, LGMC Editor

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CHRISTMAS PARTY-----December 12th, 6:30PM----NEBRASKA CENTER

Menu: Relish Plate, Jello Salad, Ham, Potatoes, Green Beans,

Rolls, Apple Pie, Drink---coffee, tea, or milk

Cost: \$5.35 per person, plus sales tax

Reservations must be made and paid for by December 1, 1981.

Program to be announced. It will be a real goodie, however. Plan on coming----bring the entire family, friends, come one-come all.

Submitted by
Marge Heedick

News Flash

Dear Members -

At our September meeting I suggested the idea to have as a club project - - the building of a replica of our state Capitol. This idea came to me after seeing the beautiful job done by the Holland, Michigan Club, on their windmill.

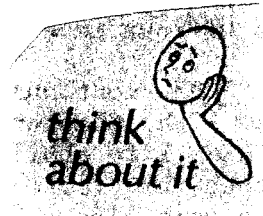
After visiting with several of their club members I became all enthused about our club trying something like this. It is my belief that a happy organization is an involved and busy one and this project would certainly keep us busy for a bit.

I quickly found out that if you come up with an idea in our club, with Roger as President; he automatically makes you chair-person. Well - if Roger can do this - then as chair-person, I'll automatically appoint Paul as my loyal and able assistant.

We decided this was a project not to be hurried. We'll start with contacting the Holland Club to get information on how they tackled their project. Then we'll need lots of ideas and thoughts from our many talented Club Members. Every idea will be appreciated. We need to decide everything from size - to pattern - material to be used - how to construct, plus many more things I haven't even thought about yet.

Please everyone, write down your ideas and send them to us - we need everyone's help. Let's make this a truly fun and proud Club project.

We'll keep you informed via the Pick & Shovel as things progress. Just send your ideas and thoughts to us - we'll be looking for them and Thank You.



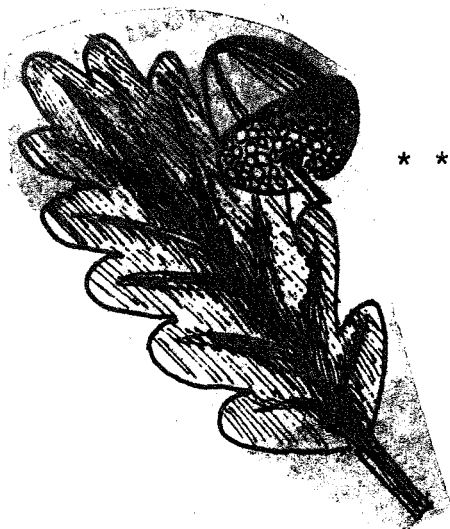
Paul & Bev Rueter
Box 73
Murdock, NE 68407

Phone 867-3466

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BE THE BEST YOU CAN BE

Can't be a wave? Be a ripple.
Can't be a woods? Be a tree.
Can't be a rock? Be a pebble.
It's important you just BE.
Can't be a king? Be a peasant.
Can't be an "A"? Be a "Z".
Your work, after all isn't lessened,
If you're the best at what you can
BE!



- via Gem Palette, June 1981

SMITHSONIAN ADVENTURE

The Smithsonian Institution's National Air and Space Museum (NASM) in Washington, DC, is the most visited museum in the nation. This year one of its most excited visitors was me. It was my great privilege to spend the last week of July at NASM in training to be their Regional Resource Person for this area.

Along with twenty other educators scattered from Miami, Florida, to Fairbanks, Alaska, I enjoyed a wonderful week of lectures and demonstrations by NASM's curatorial staff, group activities and guest speakers. NASM, the Federal Aviation Agency, and the National Aeronautics and Space Administration all provided us with the latest information and materials for use in Aerospace Education.

Highlight of the program was the lecture-demonstration of the restoration of the airplanes and the tour of the Paul E. Garber Restoration and Storage Facility, formerly known as Silver Hill, by its chief curator, Robert Mikesh. Participants were brought well up to date on the Space Shuttle, both the inner and the outer planets, and the Voyager mission. The wide-screen films, "To Fly", a bird's eye view of America, and "Living Planet", an aerial tour over five continents, both open to all Museum visitors, were among the real treasures. Gem and Mineral Club members would be especially interested in visiting the Spacearium, a very special planetarium, to see the program, "New Eyes on the Universe".

Among the most interesting of NASM's 23 galleries is "Apollo to the Moon". Here are displayed different types of lunar soil and rock. Although most lunar samples are meticulously protected from human contamination, there is one moon rock sample specifically displayed in the "Milestones of Flight" gallery for touching. I wonder how many millions of inquisitive fingers have accounted for its high polish.

Though we were kept really busy with the training for this Regional Resource Program, there was time in the evenings for hurried visits to some of the other Smithsonian Institution museums on the Mall. Fortunately the National Gallery of Art happened to be hosting the "Rodin Rediscovered" exhibit. With more than 350 works--sculptures, drawings, and photographs beautifully displayed in ten sections--this is the largest exhibit ever devoted to the art of Auguste Rodin. Most Lincoln Gem and Mineral Club members are aware that Mona Martinson Neihardt had studied sculpture under Rodin in his Paris salon for three years before she read the little book of love lyrics, A Bundle of Myrrh, which triggered the correspondence that led to her becoming the bride, sight unseen, of its author and our Nebraska Poet Laureate and LGMC honorary lifetime member, John G. Neihardt.

The marvel of Rodin's work alone would make the exhibit most memorable; but to be able to see the influence of this great master in the busts of Neihardt in the Nebraska State Capitol Hall of

SMITHSONIAN ADVENTURE - continued

Fame, at Wayne State College, and in the Neihardt Center at Bancroft, NE; the bust of Neihardt's mother at Bancroft; and others of Mona Neihardt's sculptures was a priceless experience. In case anyone happens to be going that way, the Rodin exhibit will remain in the National Gallery of Art through January 31, 1982.

No rockhound would survive a trip to the Smithsonian without a visit to the "Mineral Kingdom" gallery on the second floor of the National Museum of Natural History. To reach the "Hall of Gems" visitors pass case after case of spectacular mineral specimens beyond imagination, including perfect crystals whose length is measured in feet rather than in the mere inches we are accustomed to admiring. The Hope Diamond is billed as the goal of everyone entering, and there are many other huge diamonds as well; but for me the great sapphires and topazes, the opals, the star gems, and the jades are close rivals at least. The one I was most excited to see, though, was beautifully cut and polished oval cabochon agate from Crawford, NE, labeled "Gift of G. McGinnis" --- our own LGMC member!

"Earth, Moon, and Meteorites", also in the Museum of Natural History, is a gallery made to order for rockhounds. Chunks of iron and stone from outer space tantalize the imagination as one studies the various kinds of meteorites and their sites and effects of impact. Moon rocks are displayed here to be compared with the meteorites and with the oldest rocks of the earth's history. Thin slices of lunar rock photographed between crossed polarizers look like contemporary art paintings. An unusual relief globe of the earth shows mountains and plains and the effects of drifting continents. What a place to study the physical history of the earth and its solar system.

Another of the most interesting museums on the Mall is the National Museum of History and Technology, where much of the early life of our nation is shown. Here one is awed by the original Star Spangled Banner, somewhat tattered, but the very one that flew over Fort McHenry during the successful defense against the British fleet on September 13, 1814, and inspired Francis Scott Key to write the words of our National Anthem. I wandered among the machinery and other inventions and was suitably impressed, but it was the "First Ladies Hall" that fascinated me most. Here each Administration is represented by a mannequin wearing the dress of the First Lady, usually the wife of the President but sometimes a relative or friend who served as hostess. Most of these are in their own dresses, with the room decor appropriate to the time. Imagine seeing the actual brown satin bag made and embroidered by the first First Lady, Martha Washington; her green velvet mitt, her tea table--and the continuity is complete through Nancy Reagan's bright red coat. I was happy to recall the beautifully done, though of course much smaller and less elaborate, collection of dolls in our own Nebraska Governor's Mansion showing the inaugural gowns of Nebraska's First Ladies.

SMITHSONIAN ADVENTURE - continued

The Smithsonian Institution is probably the finest complex of museums and art galleries in the world, but it is much more than that. It is devoted to public education, major research, and national services in the arts, sciences, and history. In addition to the more obvious facilities in Washington, there are the Radiation Biology Laboratory, the Oceanographic Sorting Center at the Washington Navy Yards, the Woodrow Wilson International Center for Scholars, and others. Smithsonian facilities and activities stretch across the nation and the world. Operation Moonwatch, for which Nebraska Wesleyan had a team of observers for nearly eighteen months for the early Sputniks and U.S. satellites, was directed by the Smithsonian Astrophysical Observatory in Cambridge, Massachusetts.

Strangely, the Smithsonian came into being because of a wealthy English scientist, James Smithson, who had never visited the United States. When he died in Italy in 1829, he willed his entire fortune to the United States "to found at Washington, under the name of the Smithsonian Institution, an Establishment for the increase and diffusion of knowledge among men". The Smithsonian Institution Building, the "Castle on the Mall", was not completed until 1855. The tomb of James Smithson, the founder, is located in the north foyer of the Castle. This is the same James Smithson for whom the beautiful zinc carbonate mineral, smithsonite, is named. Appropriately, the "Mineral Kingdom" gallery in the Museum of Natural History prominently displays some of the most beautiful specimens of pastel-colored smithsonite to be found anywhere.

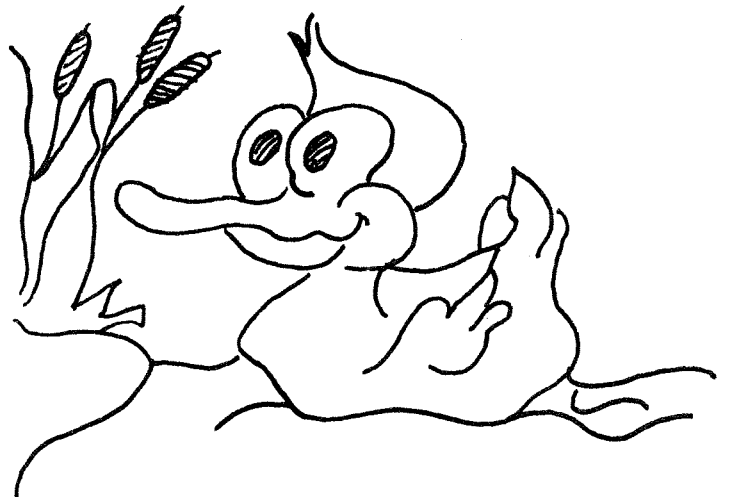
The Regional Resource Program which made my visit possible is designed to provide not only background information in aviation and space science but also the media to accompany the presentations, seminars, or workshops for teachers, students, or the general public. If any of you would like a presentation for any group, please let me know. I am eager to share. that's what it's all about.

- Submitted by Florence Boring

* * * * *

Please
Don't
Pollute!

DO YOURSELF A FAVOR
AND ME, TOO!

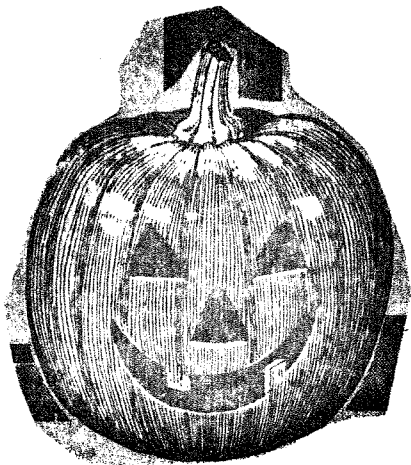


Since Fire Prevention Week is held during this month, I feel this is a very appropriate article:

SAFETY TIPS IN CASE OF A HOTEL FIRE

If you plan to utilize a hotel, familiarize yourself with the following instructions and save them for review so that you can develop the habits needed to cope during an emergency. . .

1. As you enter your room, look for fire doors in both directions and remember where they are located.
2. Check fire doors to see that they operate properly and notice where the alarms are located.
3. Always leave your key in the same place when you are in the room, preferably on a bedside table or in the door.
4. If a fire starts in your room, take the key and leave, closing the door behind you and sound the nearest alarm. DO NOT TAKE THE ELEVATOR! Notify the desk as soon as you reach the lobby.
5. When entering a stairwell, close the door behind you. If you encounter smoke, turn and walk up to the roof and wait for help.
6. If you are trapped in your room, fill the tub with cold water and wet the towels and clothes which should be stuffed around the door.
7. Close as many doors as possible between you and the fire and be sure to STAY IN A ROOM WITH WINDOWS. If smoke gets in your room, hold a wet towel to your face.
8. If the fire is on the floor below you, and there is smoke outside, you should keep the windows in your room closed and hang out a light-colored sheet as a signal.
9. DO NOT JUMP unless you are on the ground floor. Wait for firefighters to assist you.



- Helen R. Neumann
Safety & Field Trip Chairman
- via MWF Newsletter, Sept. 1981

*Happy
Halloween!*

FIRE - Friend and Foe

This is Fire Prevention Month. Like water, its most frequent adversary, fire may be either beneficial or harmful, as most everyone knows. Water is usually the best or most-used fire extinguisher, but I may mention where water may help to kindle it.

Generations of primitive cultures flourished on earth long before fire was understood. It has been regarded as one of the great "fundamental elements or substances" - earth, air, fire and water. There are many references to this traditional belief, and that quartet once dominated human thinking, but now is relegated to the status of lore or popular tradition. There are over 100 elements, 93 of them plus a few transuranic (beyond uranium) ones now made possible by atomic and nuclear processes, seemingly out-doing nature's crafts.

Cave "persons" often are depicted being snugly warmed by a cozy campfire, either inside or outside, or maybe barbecuing a tasty dinosaur tidbit. Just how the blaze was started was anyone's guess - no lighter! They had a choice of several simple friction devices, devised by some early inventive genius. Lightning or volcanic action may have started a flame, then carefully used. Little was known about various fuels, oxidation or spontaneous combustion. They had beliefs, customs and traditions about fire which they gradually learned to control and enjoy.

Modern folks know most of the facts about fire, but still we have much to learn, and habits to control. Only a small spark or reaction may bring combustibles to the kindling point. Then the action proliferates until the available fuel is exhausted or its temperature dropped by water or other coolant, or the supply of oxygen is cut off - the principle of most fire-extinguishing procedures.

Kindling points vary greatly with different substances and conditions of temperature, composition and purity. Materials not usually regarded as fire-hazards may become dangerous under certain circumstances when they no longer are fire-proof. Metals and even hard stone may burn or disintegrate.

When life grows more complex, accidental fires increase. Cave dwellers had no worries about electrical maladies, chemical reactions or radiation which are now common. We wonder why there are no more accidental fires - and add to this the appalling careless smokers.

People are being urged to conserve fuel and energy with various types of supplementary heaters. They have little regard for possible dangers; it looks so simple. Most modern homes lack proper chimneys or vents for these. Many are potentially dangerous because of faulty design or construction. Properly installed and used they may be safe.

FIRE - Friend and Foe - continued

There is the cost of efficient fuels, their storage, and the removal of ash and soot to be considered, and the danger of overheating, plus exhaustion of oxygen supply. The old-fashioned open fireplace has its faults too, especially from stray sparks and chimney soot combustion. This is not to discourage proper use of these now-popular devices, but simply to urge caution.

My first paragraph indicated that water may not always extinguish fire, but may help to kindle it. This is possible with certain chemicals where water may cause a reaction liberating heat and explosive gas energy. Unslaked lime, for example, gets very hot when wet.

The metal elements potassium or sodium will burst into flame in water, liberating flammable hydrogen gas. Some combustible materials don't react until wet.

Rodents may start fires by gnawing certain things. Old-fashioned matches once were "tasty" to them. They may cause electrical shorts by their activities. Overloaded electrical circuits not properly protected by fuses, circuit breakers and grounding are dangerous. Of course, the practice of inserting a penny coin behind a burned-out fuse invites disaster.

Lightning will continue to be a difficult natural hazard, but there are ways of diminishing the danger by proper grounding or arresters. The house we once lived in was struck by lightning, but no damage was done other than all fuses were blown and the fuse box door blasted open. We experienced another one in a different house when we both saw a harmless ball of fire float out of our floor model radio, and then dissolve in the room air!

Spontaneous combustion causes many unexplained fires. Oily paint rags not properly stored or disposed of are very dangerous. Such an example occurred years ago in my parental home north of Craig, Nebraska, but it was discovered before damage was done. My folks lost an enormous farm barn and contents of machinery, animals and stored grain, probably caused by a hay mow filled with uncured damp hay. That was in 1898, four months before my birth.

- Submitted by J. D. Young

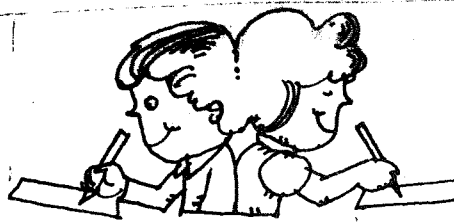
* * * * *

A ROCKHOUND is a hammer-happy - rock-stacking - son of a basalt-minded, stone-stacking, polisher-upper --- that's wot 'e is....

- via Gem Palette, June 1981
- via Pegmatite, Rocky Trails & others

"HI JUNIORS"

Uppermost in your minds this month is not going to be; studying, Open-house at your school, parent-teacher conferences or anything of the kind.



But most likely, "Halloween"! And since this is also Fire Prevention Month; I think we should talk about the two, together.

Safety on Halloween is very important. Most of us like to carve a Jack-o-lantern from a pumpkin. Then we like to take a candle and place it inside and light it. Really, that's not a very safe idea. Why not use a small flashlight and place it inside the pumpkin. It will show off the same "spooky" face we have carved out, but be much safer.

Also, when going Trick-or-Treat, it's an excellent idea to wear some type of light colored clothing so that drivers can see us when crossing the streets from house to house. If your costume is dark; simply carry along a flashlight. Never a candle, because it could catch your clothing on fire.

At school, you have probably discussed the many ways to prevent fires and probably had a fire drill or two. This is something we should all do at home too.

Does everyone in your family know the quickest and safest way to get out of your house in case of fire? Think about it; this is very important and something you should discuss with your parents and family.



I babysit for little children, and we even have a little exercise we follow to see how fast we can get out of the house. Sometimes they are too small to understand what we are doing, but they think it's a lot of fun! And it's for their safety.

Be sure to read the article in this issue "FIRE - Friend and Foe" by Mr. Young; and also the "SAFETY TIPS- -" on Page 11, taken from MWF Newsletter. They are very interesting, and you may wish to share them with your class at school.

I hope all of you have A SAFE AND HAPPY

HALLOWEEN!

-Your Editor, Vera

TRICK OR TREAT!!!

Midwest Federations NEWSLETTER

Published monthly except July and August as a service to member clubs. All news and articles should be sent to the Editor, Mrs. Betty Smith, 10607 Mary Ann, Zeeland, MI 49464. All subscription orders should be sent to Parrot Printing Service, 2125 Forest Ave., Des Moines, IA 50311.



OCTOBER 1981 - Issue No. 217

MEET YOUR NEW OFFICERS

PRESIDENT - LARRY NAWOJSKI

LARRY served this past year as MWF First Vice-President, and as Acting President since the death of President MEL SHARP. He has been Second Vice-President, Chairman of the Lapidary Arts Committee and member of the Uniform Rules Committee. He is a member of the Chicago Lapidary Club and has served in many capacities as officer or committee chairman, and has served as co-chairman of Judging and Awards for the Chicagoland Gems and Mineral Association.

1st VICE-PRESIDENT - MRS. DIANE DARE

DIANE served this past year as MWF 2nd Vice-President and Chairman of the Merit Awards Committee. She has also served as Chairman of the Directory and Calendar of Events Committee, as well as the Junior Activities Committee. She is a member of the Evansville Lapidary Society.

2nd VICE-PRESIDENT - REX WEBB

REX has been the Minnesota State Director for a couple of years, and was an Assistant before that. He brought the Minnesota State Display for the South Bend Show, beautiful Lake Superior agates from his own collection. REX lives in Bloomington, Minnesota and is busy promoting the 1982 MWF Show.

SECRETARY - MISS JEAN REYNOLDS

JEAN, an Honorary Member of the MWF, is serving her 14th consecutive year as Secretary. She is a member and Past President of the Earth Science Club of Northern Illinois and is also Editor of that club's Earth Science News.

TREASURER - WILLIAM PARCH

BILL is currently serving his second term as MWF Treasurer. He has served as State Director for the State of Wisconsin, and also as Assistant. He is a member of the Driftless Area Gem & Mineral Club and the Coulee Rock Club, and has served both clubs in many capacities.



NEW MWF ENVIRONMENT PATCH AVAILABLE

A new four inch, five color cloth patch by the Environment Committee promotes the theme, For Conservation and a Clean Environment. It is available from the Director of Supplies,

CLINTON HECKERT, 725 Stewart Ave., Elgin, IL 60120. The price is \$2 for each patch and can be ordered in quantities.

The two new members of the Nominating Committee for a three-year term to end in 1984 are:

MRS. FLORENCE HILL, Michigan State Director, Mason, Michigan

LARRY DESOTEL, Iowa State Director, Cedar Rapids, Iowa

MILES SMITH, Frankfort, Kentucky, has been selected to the MWF Scholarship Board of Selectors for 1981-1982.

MIDWEST WINNERS - 1980 ALL-AMERICAN CLUB CONTEST
(in alphabetical order)

Badlands Sandhills Earth Science Club, Mission, South Dakota

Though small in number and scattered about, this is a club of active and dedicated members. They don't let weather keep them from meetings and events! Activities are open to other clubs that may wish to participate, and the local press is made aware of their quests and events. The members are willing to do whatever is needed, from filling in when a program doesn't arrive, ordering books from the state library, helping 4-H members upgrade their specimens, or furnishing food for the show snack area. A warm, friendly attitude is shown in their application.

Flint Rock and Gem Club, Flint, Michigan

Persistent participation for twenty-five years with spectacular shows and activities. It may well be the fastest growing club in the United States. Members contribute money and materials to museums and schools and support several scholarship funds. Members have displayed with success at regional and national shows, and participated in work for organizations. A major project completed during this year was a Show Manual and Guide. Keenly aware of the local economy, several of their fieldtrips were overnights, via chartered bus. Membership cards each year display a mineral of the state.

Lake County Gem and Mineral Society, Lake County, Illinois

This club makes special efforts to introduce young people to the hobby and encourages their interest. They have donated 100 specimen cases to the area schools, and give awards for geology projects at the County Fair. The winners are special guests at the next meeting. The meeting programs range from electroplating to archaeological finds at the nearby Forest Preserves. Senior Citizens and hospitals are not forgotten - they are given demonstrations of lapidary work and other programs. Scholarship money is raised by stamp sales at the show, memorial gifts and rebates from magazines subscriptions.

Lincoln Gem and Mineral Club, Lincoln, Nebraska

A club that has consistently worked for the betterment of the Midwest Federation through its sponsorship of activities at all levels, especially local, regional and national shows. Its members have gone beyond expectations in every game and yet retained a high level of services for local activities. The bulletin each month has a special educational feature, as well as a page of Junior activity. Displays have been set up in the State Museum and public libraries, and over 10,000 people viewed the club's exhibits of gems, rocks, minerals and fossils at the Nature Center. Even though they were very busy with the duties of hosting the combined regional and national show, they carried on all their regular club activities and events.

Part Forest Earth Science Club, Park Forest, Illinois

A club that spends much time working for and with groups outside its own membership. The club paper is well organized and representative of all the club activities. Each monthly meetings includes displays of a specified item, a program and a quiz afterward, complete with prizes. Monthly field trips included museums, a trilobite hunt with another club and a 4-day trip to Arkansas (with a detailed trip guide booklet prepared by the leader). The members work with schools, hospitals, museums, senior citizens, history groups, art fairs, youth groups and conservation groups.

HONORABLE MENTIONS

Gem City Rock Club, Quincy, Illinois
Duneland Rock Club, Griffith, Indiana
Peru Rocks and Minerals Club, Inc., Peru, Indiana
Dallas County Rock Club Inc., Adel, Iowa
Earth Science Club of Missouri, Brentwood, Missouri
McDonnell Douglas Gem & Mineral Society, St. Louis, Missouri
Sioux Empire Gem & Mineral Society, Sioux Falls, South Dakota
Neville Public Museum Geology Club, Green Bay, Wisconsin
Wisconsin Geological Society, Milwaukee, Wisconsin

Submitted by DIANE DARE, MWF Merit Awards Chairman

WHAT IS THE MIDWEST FEDERATION
DOING FOR US???

This is a frequently asked question by club members who do not attend MWF shows or get the monthly Newsletter. Of course, the showing of the new slide program by assistant state directors in the near future, will answer questions on the MWF organization, however they cannot describe the status of current activities.

At South Bend, we just finished another successful show. At the executive committee meeting, they authorized the trial publication of MWF REPORTS. As a proposed quarterly report, it will contain statements and reports from officers and committee chairpersons on the activities of the federation. Announcements and news of your committee are still needed by BETTE SMITH for the Newsletter.

For this publication, we are asking for longer reports on the following:

- Report on your committee activities
- Plans or projects
- Recommendations for club participation
- Requests for club responses
- Statements on committee purposes or goals.

Your report can be four or five paragraphs (up to one typewritten page). Clear pictures, sketches and appropriate cartoons are welcome but will not be returned. Please sign your report with your signature.

We are looking forward to your enthusiastic response to the opening question soon. There are 271 clubs with 15,383 members who want to know.

JOHN BOLAND, Environment Committee
Assistant

DR. BENJAMIN MOULTON is our new
Merit Award MWF Chairman.

Programs

#49 "Natures Carvings, Geologic Phenomena Formed by Wind & Water"

The title gives an idea of the subject matter. Natures beauty may be viewed in Spring at Bacon Hollow overlook in Shenandoah National Park; or in Summer at Upper Tahquamenon Falls near Newberry, Michigan; or Fall when the Aspen makes the Colorado mountainside look like gold; or Wintertime when the snow blankets the Grand Canyon of the Yellowstone in Yellowstone Park, Wyoming.

Quotes are from the script of the program. A club can traverse our beautiful country viewing the gorgeous carvings of Nature.

#46 "Masterpieces of Nature" is written by a mineral fan - Russell Mac Fall and tells of what he believes are Natures finest. Divided into mineral classes, it is a good program for general meetings or for study groups. Photography - wonderful!

#77 "More Rare Than Diamonds" - a story of a small spot in Oregon and a dedicated paleobotanist and shows how one dedicated amateur on collecting on one site advanced our scientific knowledge.

Many collecting scenes, pictures of various seeds found here, some needing macro-photography for us to enjoy; a few fossil animals and rhino teeth.

This is an example of programs submitted to the American Federation film contest and the value to rockhounds like us.

There are many programs that are old (slides) or out-dated (material). We would like to see more slide programs. If you have created a program, send it to us, we will copy and return your slides. This helps your club gain points to All-American Merit award. We hope to see many new programs.

LOUISE STINNETT, Chairman Program Requests (film library)

AFMS PUBLIC RELATIONS HONOR ROLL

Many clubs are well known in their home state and in their Regional Federation and in AFMS for their excellent work in Public Relations. Some clubs which have equally fine programs never achieve the recognition they deserve because we are not made aware of what they are doing. Here are some of the clubs which have a strong public image because they share their success stories with all.

- ARK-LA-TEX GEM AND MINERAL SOCIETY, SHREVEPORT, LOUISIANA
- GEM CUTTERS GUILD OF BALTIMORE, MARYLAND
- ROCHESTER ACADEMY OF SCIENCE, MINERAL SECTION, ROCHESTER, NEW YORK
- MICROMINERALOGISTS OF THE NATIONAL CAPITOL
- LINCOLN GEM AND MINERAL CLUB, NEBRASKA
- FLINT ROCK AND GEM CLUB, MICHIGAN
- MICHIGAN GEOLOGY AND GEMCRAFT SOCIETY
- ROEHM GEOLOGY CLUB, OHIO
- PICTURE CITY GEM AND MINERAL SOCIETY, HOT SPRINGS, SOUTH DAKOTA
- TUCSON GEM AND MINERAL SOCIETY, ARIZONA*
- COLUMBIA ROCK AND GEM CLUB, ST. HELENS, OREGON
- MAGIC VALLEY GEM CLUB, TWIN FALLS, IDAHO
- MINERAL AND GEM CLUB OF CASTRO VALLEY, CALIFORNIA
- SANDIEGO MINERAL AND GEM SOCIETY, CALIFORNIA
- FOSSILS FOR FUN SOCIETY, SACRAMENTO, CALIFORNIA

The order of the above list has no particular significance. The star for the Tucson Club is to remind us that super Public Relations for a club is an achievable goal!

JUNE ZEITNER, Chairman, AFMS Public Relations Committee

FALL EXECUTIVE MEETING

The fall meeting of the MWF Executive Committee will be held on Saturday, November 7 in Evansville, Indiana. Newly elected officers at South Bend, Indiana for 1982 will be installed. Complete details will be sent to all members by the Secretary, JEAN REYNOLDS.

SAFETY CERTIFICATE OF COMMENDATION

At the meeting of the Midwest Federation in South Bend, Indiana, the "go-ahead" on my suggestion for a Safety Certificate of Commendation was given. Clubs promoting club shows with strict adherence to safety are to be the recipients. The requirements and rules are as follows:

1. Each year, clubs sponsoring shows, should apply for the Midwest Federation's Safety Certificate of Commendation.
2. Safety Chairmen of individual clubs should monitor all shows they attend and report safety hazards to the one in charge of the show. If nothing is done to correct the danger, it should be reported to the Midwest Federation Safety Chairman, who will keep a record of this report.
3. When a club submits an application for the Certificate - where there are any derogatory reports against that club, instead of a Safety Certificate, they will receive a Letter of Censure.

As time progresses, and this Certificate is observed more and more at shows, the various clubs will endeavor to cooperate so they can thus obtain and exhibit the Safety Certificate of Commendation proudly.

Since this program will be in full operation as soon as possible, anyone noting dangerous procedures involving shows, please write to the Midwest Federation Safety & Field Trip Chairman, MRS. HELEN R. NEUMANN, 20955 Balfour Road, Mt. Clemens, MI 48043. Proper forms will be forthcoming soon and will be sent to each club.

HELEN R. NEUMANN, Chairman, MWF Safety & Field Trip Committee

1982
SHOW
BUTTON



TO MIDWEST FEDERATION STATE DIRECTORS

The membership committee needs your help.. I am trying to update my records. While at the South Bend meetings, I gave the state directors copies of the names of their clubs and asked their help in getting the correct dates that their clubs joined MWF. I would appreciate this information before the next directory comes out. This information is very important as my records are incomplete prior to 1969. We would also like to make sure that each club receives their anniversary certificate on the correct date.

MARY EDWARDS, Membership Chairman

NOTES FROM THE AFMS MEETING, SALT LAKE CITY

All-American Club Contest had 74 entries; Midwest Federation led with 29, California 11, Eastern 5, Northwest 12, Rocky Mountain 7 & South Central 10.

There are a number of Safety Manuals in stock - excellent and useful publication.

AFMS Bulletin Contests - total of 154 entries.

Only 6 programs entered in the Slide Program contest.

From Newsletter editor report "I ask all club presidents and/or editors to present some federation news at each monthly meeting or print some small item or excerpt in each newsletter, many club members are not aware of the existence of regional and national federations".

Public Relations Committee report from JUNE ZEITNER: "The country is very environmentally conscious these days. Also the lack of basics in education is much in discussion. And there is more interest in energy, metals, and exploration than ever before. There is also a revival of enthusiasm for crafts. I think our main thrust should be to let America know that we are the natural leaders in these fields."

There were 43 competitive displays in AFMS Show: 12 were awarded trophies. Two of these were taken by MWF members - BRUCE LUNDEN of West Suburban Lapidary Club, Illinois, and HAZEL TARCZA, Heart of America Geology Club, Missouri.

DIANE DARE, AFMS Director

Slate H 1-3 Mohs

A dense fine grained metamorphic material of clay, shale and quartz compressed into bedding planes. Predominantly black, other colors are red, green, grey and chocolate colored.

The black from Pennsylvania is comparatively soft while the material from Vermont is harder. It is ideally suited to line drawing or low relief carving. Most slate that is available is in relatively thin sheets. If obtainable in thick sections it would be usable for carvings in the round. Most marble and building supply companies offer slate for sale.

Alabaster H of 2 Mohs

This beautiful material is in ready supply for Michiganders both from Alabaster City and the Grand Rapids Area. From time to time Colorado and Utah Alabaster is listed by rock dealers. The Colorado material is noted for its fine, dense composition. We have a cat carved from the Utah material that was fine and even in its working qualities.

Soapstone H 1-1½ Mohs

A material for carving with ease and abandon. Soapstone, Talc or Steatite all seem relatively the same to a carver. Mineralogically speaking there may be a difference but this is of little consequence to the lapidary. Presently Washington state soapstone is available from dealers.

These three materials plus ivory, coral, amber, jet, shell and others can be worked with steel tools. Our supply list of these tools includes a round carbide hacksaw, a coping saw, an assortment of rasps and files, knives of the Exacto variety and wet or dry silicon carbide cloth or paper for sanding. The polish may be worked up in lapidary fashion or hard paste waxes.

HAZEL & PETE FEILEN, The Rockpile, May 1973

SHOP HINT

One of the most aggravating of all lapidary chores is finding a place to store silicon carbide sanding disks. But an old-timer I talked with recently has found the perfect solution. Take an old magazine & store the disks between its pages. These 'sanding books' can then be stacked on the shelf and you'll have your sanding disks flat and ready to go when you need them.

Cobb-L-Stones via The Tully, September 1981

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Read your bulletin to spot *new materials* or *specials* of the above advertisers.

Advertising by a rock-hobby business or interest is permitted with approval of the Board, at a rate now set at \$10.50 per full page per insertion, paid in advance.

1/2 page \$5.25, 1/3 page \$3.50, 1/4 page \$2.75 (min). These ads will be placed throughout the bulletin as space permits.

Subscriptions to THE PICK & SHOVEL are \$3.00 per year mailed.

Dues to LINCOLN GEM & MINERAL CLUB are as follows:

Adult membership fee \$5.00 (age 16 and over)

Junior membership fee \$1.00 (age 12-16)

Family membership fee \$11.00 (husband, wife and all children under 16 - permanent residents of household)

New membership must be approved by the Board, after applicant attends at least one (1) regular meeting of the club, and pay the above dues plus \$1.00 registration fee.

DON'T FORGET. . . . Our General Club meetings begin again this month; on the fourth Saturday, 7:30 P.M. at the Nebraska Center for Continuing Education, 33rd & Holdrege.

Bring along a friend who is interested in our hobby or even someone who has no idea what our hobby involves. They may be prospective members.

Also, remember there is always an excellent program which follows our regular business meeting. This month it is entitled, "Autumn In New England".

Sounds interesting!

Lincoln Gem & Mineral Club
Box 5342
Lincoln, Nebraska 68505



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