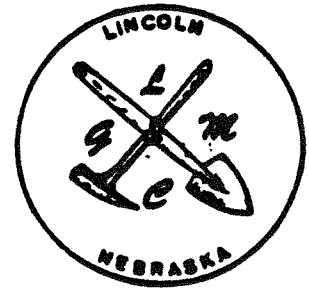


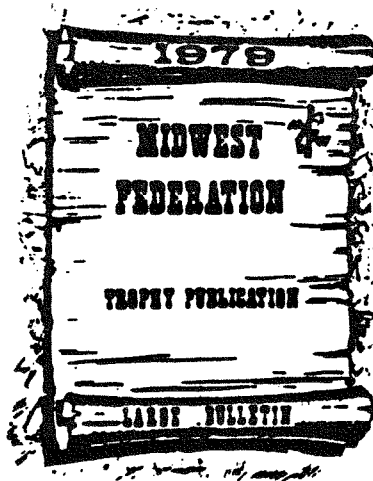
# THE PICK & SHOVEL



September 1983

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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. 68505-0342

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

1983 ELECTED OFFICERS:

President.....	Howard Taylor, Jr.	910 New Hampshire	Lincoln, 68508	476-3707
1st Vice Pres...	Glenn Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
2nd Vice Pres...	Claude Scott	4917 Normal Blvd.	Lincoln, 68506	488-0739
Secretary.....	Gail C. Scott	4917 Normal Blvd.	Lincoln, 68506	488-0739
Treasurer.....	Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member....	John Abel	2829 Van Dorn	Lincoln, 68502	423-7654
Board Member....	Florence Boring	2836 S. 40th St.	Lincoln, 68506	488-6243
Board Member....	Virginia Green	6120 The Knolls	Lincoln, 68512	423-5032
Board Member....	Frank Rule	6333 Kearney	Lincoln, 68507	466-1697

Nominating Committee -- 3 years:	Richard Haney, Wilfrid Wittman
2 years:	Vera Lyman, Frank Rule
1 year:	Marie Taylor, Jim Parks

LONG RANGE PLANNING AND BY LAWS COMMITTEE:

1 year - Jim Parks, Phyllis Parks	3 years - Roger Pabian, John Abel
2 years - Marie Taylor, Vera Lyman	

STANDING COMMITTEE CHAIRPEOPLE:

Programs.....	Claude Scott	1983 Show.....	John Abel
Education/Publicity.	Roger Pabian	MWF Liaison.....	Marie Taylor
Hospitality.....	C. Rose & J. Haney	Refreshments/Party...	Marj Heedick
Historian.....	John & Lillie Lewis	Scholarships.....	Marie Taylor
Librarian.....	Jim Parks	Outside Displays.....	
Membership.....	Bob & Mary Walker	Housing/Property....	Claude Scott
Field Trips/Safety..		Editor.....	Vera Lyman
Sunshine Corner....	Susan Taylor	Junior Activities....	
NAOESCI Reporter....	Vera Lyman	'83 Rockhound of Year Chairman....	John Abel

Auditing Committee 1982.....Ray Lambert, Chairman  
Florence Boring, Vera Lyman

PICK & SHOVEL STAFF:

Editor.....	Vera Lyman, 420 North 56th St. Lincoln, NE 68504
Club News.....	Helena Baegl
Sunshine.....	Susan Taylor

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.



## Club Calendar

September							1983	
S	M	T	W	T	F	S		
				1	2	3		
4	5	6	7	8	9	10		
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
25	26	27	28	29	30			

**GENERAL MEETING:**    Saturday, September 24, 1983, 7:30 P.M.  
 Nebraska Center, 33rd & Holdrege  
 Parking north of Building

**SPECIAL PROGRAM:** "Play Paleontology"  
 This is a slide/film presentation of a Fossil project at Saratoga School last year.

**BOARD MEETING:**    Thursday, October 6, 1983, 7:30 P.M.  
 Taylor Home, 910 New Hampshire

\* \* \* \* \*

**LOCAL SHOWS:**        Sept. 30, Oct. 1 & 2  
 Platte Valley Rock & Mineral  
 North Platte, Nebraska

Oct. 15 & 16  
 Grand Island Earth Science Club  
 Grand Island, Nebraska

Oct. 29 & 30  
 Northeast Nebraska Rock & Mineral Society  
 Norfolk, Nebraska

**FEDERATION SHOW:**    November 11 thru 13, Dallas, TX  
 SOUTH CENTRAL

\* \* \* \* \*

**LATE MEMO:**        Bud Plant suffered a stroke on Monday evening (Sept. 12). He is a member of Grand Island Earth Science Club. Anyone wishing to send him a card and well-wishes, he is at the Aurora Memorial Hospital, Aurora, NE.

\* \* \* \* \*

## safety

**REMEMBER:**

Schools are in session again. Children's minds are inattentive and occupied with playful thoughts.

DRIVE CAREFULLY!



Lincoln Gem & Mineral Club,  
% Pick & Shovel Editor;

Myrtle and I wish to thank the  
Lincoln Gem and Mineral Club for  
their kindness in awarding us a

Life Membership last May 21, 1983, and for the attractive plaque  
with its message.

Sincerely

Julius D. Young

\* \* \* \* \*

If, instead of a gem or even a flower,  
we would cast the gift of a lovely  
thought into the heart of a friend,  
that would be giving as the angels  
give.

- George McDonald

Hope everyone survived the summer and  
are looking forward to a colorful  
(Big Red!) fall.



Suze Sunshine

\* \* \* \* \*

Love's A B C 's

You'll have your hands full and your life filled trying  
to live out Love's A B C 's.

Love Acccepts, Behaves, Cheers, Defends, Enriches,  
Forgives, Grows and Helps.

Love Includes, Joins, Kneels, Listens, Motivates,  
Notices, Overlooks and Provides.

Love Quiets, Respects, Surprises, Tries, Understands,  
Volunteers, Warns, Xpects and Yields.

Moreover, love in action is the code that adds Zip  
to your life.

- Anonymous, via Editor

## President's Message

Another long and very hot Nebraska summer has come and gone. Fall is approaching and with it comes the thoughts of many colorful days and enjoyable weekends when people want to get out, go places and see things.

Many clubs in the state have scheduled shows that we are all invited to attend. People from these clubs attend our show and swap each year. It would be very nice for members of the Lincoln Gem and Mineral Club to return this courtesy and visit some if not all of these shows. I will and I hope to see many of you there also.

Fall is also the start of another year of activities in our club. I am looking forward to getting started on these activities and hope you are too. Our first meeting is September 24, 1983, please plan to attend.

See you then

Jim

## EDITOR'S CORNER

This will be my last issue as "Editor". Judy McColery has been approved by the Board of Directors. I will be her assistant and serve in that capacity as long as she needs me. It is certainly too much of a job for one person.

I wish to Thank the members of LGMC for letting me serve in this capacity for the past three years. It was indeed a challenge, a learning experience and a pleasure; along with all the hard and time-consuming work. It was also my privilege to bring the "PICK & SHOVEL" to "First place" in the Midwest Contest and to "Top Ten" in the American Federation Contest.

"Good Luck, Judy" in this new endeavor; and my best wishes!

*Special Thanks*

VERA



During the summer months, several club activities were held and those who desired might participate. June 25:

This was a field trip to Southeast Nebraska. Those in attendance did find some gem stones and fossils but it was more of a chance to get away from the 'daily routines' of life. Roger Pabian, Lynn Wells and Fred Holbert were accompanied by Mary Kay Roth (Reporter for the Lincoln Star) and her photographer husband (Lincoln Journal) who published the

story and photos in the Star. (7-16-83)

On July 16th, Irl & Lois Everett had a sale and sold a great deal of their surplus rock and gem material. I have not talked to them since the sale, but I'm sure it was a success. (Where's my Pizza, Irl?)

Marie, Jim and Susan Taylor and Roger Pabian were among those attending the Midwest Show & Convention in Kalamazoo, Michigan. The Taylors enjoyed this two-week trip attending the Show and visiting with friends in Michigan and Wisconsin; as well as those coming from other parts of the nation.

Roger presented a program on Agates at the MWF Show and also participated in a field trip to Ontario, Canada. He indicated to me that he found some excellent fossils.

The Day at Chet Ager Nature Center in July was a nice summer highlight for those in attendance. The evening was cool and made it excellent for the picnic supper which was enjoyed by Marie, Jim, and Susan; Roger; Glenn, Vera & Greg; Claude & Gail; and Ed Ridge.

Lester Hunt had been out earlier in the day and observed several of the films, but felt it was too hot for him to stay for the evening, due to health.

The Omaha Show which was held over Labor Day weekend, was also attended by the Taylors, Roger Pabian, Claude & Gail Scott, and Ray Lambert. The Everetts and JJ&L were dealers at this show.

Myrtle and J.D. Young also enjoyed their annual visit to the Neihardt Day Celebration on the first Sunday of August at Bancroft. For a full report, be sure and read J.D.'s article in this issue.

\* \* \* \* \*



### MINUTES

#### IN A NUTSHELL:

The Taylors will be hosts for the opening day of the Neihardt Center Show scheduled for October 9-30.

Judy McColery was approved as the Editor for the Pick & Shovel. Vera will be her assistant.

It was announced that Roger Pabian will be the Show Chairman for the 1984 Show. (26th Annual)

Our Christmas Party was discussed. Plans will be finalized at the September meeting.

Claude Scott was appointed Chairman of our Winter Swap which is held in conjunction with our regular January meeting date.

LINCOLN GEM & MINERAL CLUB, INC. Board of Directors,  
May 5, 1983 -

Meeting was called to order by President Jim Taylor, 7:30 P.M.  
May 5, 1983 at the Taylor home. Seven board members, Vera Lyman  
and Marie Taylor present.

Minutes of April meeting read. Performance Bond corrected to  
cover Treasurer and President; amount of payment to AAA rental  
corrected to \$ 272.75 reflecting a credit. With these corrections  
minutes approved on motion by Florence Boring, second Virginia  
Green. Motion carried.

President Jim Taylor informed members that A. O. Henry returned  
\$ 25.00 refund check to the club.

Treasurer's report read by Phyllis Parks. Motion Virginia Green,  
2nd Florence Boring that report be approved as read. Motion  
carried.

Decision that funds from Silent Auction of April & May go to the  
Nebraska Academy of Sciences. Motion Phyllis Parks , second Claude  
Scott that this be approved. Motion carried.

Marie Taylor, Scholarship Chm. requested check for the University  
of Nebr. Foundation for their Scholarship deposit.

Paid bills submitted for approval:

\$ 22.89 Vera Lyman, Mailing April P & S. Approval by voice vote.

Bill presented for payment:

\$ 39.29 UN for printing April P & S. Motion Virginia Green second  
Florence Boring this bill be approved for payment. Motion carried.

Old Business:

Jim Taylor returned the \$ 25.00 refund check to A. O. Henry to  
Phyllis Parks to be voided. Henry refused to accept this refund.

Florence Boring asked for help in finding the 8 different categor-  
ies of Club activitites for the All American Federation Club Award  
File which she is keeping for the Club. Any publications of the  
club, articles etc. will be greatly appreciated from any members.

Extra ten Dollars from the sales funds of Pins and Patches given  
to the Howard Taylor Scholarship Fund.

New Business:

Prof. Lloyd Tanner has applied for Family Membership. Approval,  
subject to payment of dues, on motion by Florence Boring, second  
V. Green. Motion carried.

Discussion of presentation of Lifetime Membership to J.D. Young  
and Myrtle Young. Accompanying token of appreciation of their  
years of dedicated service to the Pick and Shovel. Motion Glenn  
Lyman that this be done, second Claude Scott. Motion carried.

Board of Directors, May 5, 1983 - continued

Announcements:

Silent auction to be held at May 21, 1983 Meeting at 7:30 P.M. at the Center for Continuing Education.

Next Board Meeting to be held September 8, 1983 at 7:30 P.M. at the Taylor home.

Florence Boring to present program at May 21st meeting. Titled "Spinoffs from Space".

Motion to adjourn by Glenn Lyman, second Virginia Green.

Respectfully submitted, Gail Clare Scott, Secretary

# Reports

Convention Report  
Midwest Federation Council Meeting  
Saturday, July 16, 1983  
Holiday Inn Expressway  
Kalamazoo, Michigan

The annual MWF Council Meeting was called to order by President Diane Dare. Invocation was given by Clinton Heckert.

We were all welcomed to the Show and Convention by Kitty Starbuck, Chairman, and urged to "have a good time in Kazoo!"

Past presidents and other dignitaries were introduced. Copies of the minutes of the past meeting were sent to all officers, state directors, permanent committee chairpeople and special committee chairpeople. The treasurer's report was given and copies were passed out to all in attendance.

The State Directors were all introduced, and each one read their reports. Fourteen states belong to the MWF.

The Permanent Committee chairmen were introduced and each one in attendance gave their reports. There are 26 Committees; not all chairmen were in attendance.

The Special Committee chairmen were introduced and each one in attendance gave their reports.

Next on the agenda were the Convention Reports.

Lloyd Brown invited all to attend the 1984 Show and Convention in (Milwaukee) West Allis, Wisconsin.

Ashton Wilson gave quite a speech about the 1985 Show and Convention to be held in Sioux Falls, South Dakota.

Jim Russell told us about how "South Bend will glow at the '86 Show." South Bend, Indiana will host the AFMS/MWF Show and Convention.

New Business was next on the agenda. This included election of officers for 1984.

- continued

REPORTS - continued

Elected were:

President: Rex Webb, Bloomington, Minnesota  
1st V P: Jim Edwards, Park Forest, Illinois  
2nd V P: Bill Parch, Fountain City, Wisconsin  
Secretary: Jean Reynolds, Clarendon Hills, Indiana  
Treasurer: Kitty Starbuck, Vicksburg, Michigan  
Clinton Heckert, Elgin, Illinois and Susan Taylor, Lincoln, Nebraska, were elected to serve on the nominating committee for a three-year term.

I will bring my copy of the printed reports to the September meeting, for anyone to look at. These reports are very interesting to read and are informative.

Susan Taylor, Delegate

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State Report

N.A.O.E.S.C.I. Annual Delegates Meeting  
Sunday, September 11, 1983  
Cottonmill Lake    Kearney, Nebraska

President Jim Harrison presiding:

Call to order, 2:00 P.M. Roll call of the delegates was called. Ten Clubs were represented. It was noted that 2 Clubs had not renewed their membership. Those being Mitchell Rock and Gem and Chadron State College.

Minutes from the last meeting were approved and Treasurer's report accepted as presented.

Grand Island Earth Science Society was the only Club that bid for the 1984 State Show. Norfolk (Northeast Nebraska Rock & Mineral Society) will be the location for the 1984 Swap.

Vice President needs dates of Show and Swap by November 1, no later than December 12.

There was no Old or New business presented.

Historian Lillian Harrison asked if anyone in any of the Clubs would like her job. She indicated she had to give it up due to health reasons. She also indicated that someone was needed to take her other job as program director or custodian.

Ruby Price was chairman of the Nominating Committee.

Those nominated and elected are:

President, Wayne Bucholz  
Vice President, Connie McCartney  
Secretary, Treasurer, Margaret Hohnholt  
Board of Directors, 2 yrs., Wes Geiken and Jim Stewart  
Nominating Committee, Sylvan Ellsworth and Ray Graham

LGMC Delegates attending the meeting were Glenn Lyman and Jim Stewart.

Glenn Lyman, Delegate

NEIHARDT DAY - August 7, 1983

The 18th annual observance honoring the late John G. Neihardt was held at Bancroft, as usual on the first Sunday in August. He was Nebraska's Poet Laureate from 1921 until his death Nov. 3, 1973, and retains the title "in perpetuity." He was an honorary life member of Lincoln's Gem and Mineral Club. Several hundred people attended the program under the shade trees after they visited the exhibits in the main building of the Neihardt Center, a branch museum of the Nebraska State Historical Society. The Poet planted some of those trees in early 1900's.

This year's theme "The River and I" commemorated Neihardt's heroic open-boat trip down the Missouri from it's Head of Navigation at Ft. Benton, Montana to Sioux City, Iowa, in 1908. He started with his home-made boat, "The Atom I", traded it for "The Atom II" and reached Sioux City 56 days later. A teenage boy survived the entire lonesome, hazardous voyage, but two cooks and an expert photographer "jumped ship" along the way. The faithful boy, Chester Marshall, called "The Kid" in Neihardt's book, "The River and I", grew up, married and was killed in a car-pedestrian accident. He had a small daughter who is now a nun in Omaha. His grave is just inside the gate in Bancroft's cemetery.

Neihardt undertook that risky boat trip 75 years ago after he was commissioned by Casper Whitney to do it and write a series feature for "Outing Magazine". The Poet was a vigorous, ingenious, 27-year old writer. He wrote the brilliant, thrilling story, and in 1910 published it in prose, replete with 50 full-page pictures.

A Missouri River trip retracing Neihardt's adventure is being planned for this autumn or next summer. The party probably will include Bob Handy, a dramatics producer; Hilda Petri, Neihardt's 2nd daughter; Christopher Sengel, the Dramatics Publishing Co.; and Richard Collins, great nephew of "The Kid" in Neihardt's "The River and I." The 1908 trip's adventures and hardships will be lacking!

Today's Missouri River is not the same as its 1908 ancestor, but there are plenty of exciting places and superb scenery to be experienced. Much of the wild, "Big Muddy" has been tamed by five huge dams, to be portaged downstream after traversing long artificial lakes. In 1968, with Dr. Neihardt, Myrtle and I stopped our car mid-way across the highway crossing on the crest of the great Oahe dam near Pierre, So. Dakota. The Poet's aging eyes scanned the southern edge of the nearly 200 mile-long lake extending to Bismarck, N. Dakota and he said, "That's not my river any more!"

In the early 1970's one of the Poet's former University of Missouri (Columbia) students offered him to retrace his grueling 1908 trip, not by home-made open boat in 56 days, but in the student's private airplane. That generous man was killed in a traffic accident before the flight could be made!



# AFMS

ESTABLISHED BY  
AMERICAN FEDERATION OF  
MINERALOGICAL SOCIETIES.

## Scholarship Foundation, Inc.

Mrs. Howard Taylor  
LINCOLN GEM & MINERAL CLUB, INC.  
910 New Hampshire Street  
Lincoln, NE 68508

704 SW 31st  
Pendleton, OR 97801  
August 10, 1983

Dear Marie:

Whenever Mr. Dan McLennan, our Treasurer, forwards me a notice that a Club has reached a level so that a Plaque is in order, it is a real joy. Therefore, I was extremely happy to receive the news that your Club is not only eligible for the 1800% and 1900% Seals, but also for the:

### 2000 Percenter Plaque

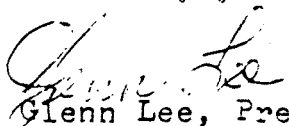
Few Clubs have reached such a high standing in support of the Foundation, and I would like to congratulate you and all your members for this continued support. Dan tells me this level was reached with the excellent credit of \$307.21.

Your Seals are enclosed and your Plaque has been ordered and will be forwarded by our Secretary, Miss Alberta Best, just as soon as it has been properly engraved. Please display it proudly as a token of your achievement, so that all your members may see it.

As you are aware, the Foundation is providing 12 grants this fall, each for a two year period and we are able to increase the amount to \$1,500.00 per year. It is your continued most generous support that makes it possible to provide this ever increasing assistance for deserving students.

Mrs. Louellen Montgomery of Topeka, KS, a Past President of the Rocky Mountain Federation, has been elected President of the Foundation for the term beginning Nov. 1st. It has been a real pleasure to work with you ever since your 1974 Show, and I'll be looking forward to seeing you at some of the shows -- most certainly at the National Convention in South Bend.

Sincerely yours,

  
Glenn Lee, President  
AFMS SCHOLARSHIP FOUNDATION

cc: Dan McLennan, Treasurer  
Rex Webb, Director  
Katie Steinhrenner, Chairman

## CALIFORNIA VISIT, SUMMER OF 1983

The California Federation Show, hosted by the Santa Clara Valley Gem and Mineral Society in San Jose June 17-19, 1983, was a great time of looking, learning, and enjoying. Since son and daughter-in-law Hershall and Nancy Boring and Nancy's mother, June Warne, belong to the host club, it was also a time of work, especially for them. Hershall was co-chairman for Security, so he lived in the motor home for the duration, driving it into the main building at night.

Thanks to the Lincoln Gem and Mineral Club member's generosity in making donations to the raffle for the beautiful rockhound quilt made by LCVG&MS members, I was welcomed with a big hug from the Quilt chairman, Mary Brown. It was truly disappointing not to bring that quilt back to an LGMC member, but at least it was won by someone who appreciates it. The lady who won the quilt has her own rock shop in San Carlos, CA, where it is hanging on display for all to see. She attended the SCVG&MS picnic at Moffett Field the Sunday after the show to be photographed with all the ladies who made the blocks. Later, the quilt was entered in the Santa Clara County Fair, where it deservedly won a blue ribbon.

When the club picnic was over and everyone had won at least one of the prizes so generously donated by the members, the Borings and June and the three dogs headed westward for a few days of motor home camping beside the beach at beautiful Half Moon Bay. It was here that I found the curiously wave-sculpted rocks for the display at our club's July 30th "field day" in the Chet Ager Nature Center. This beach rock display is currently on loan to the Encounter Center in Morrill Hall.

Our camping reluctantly over, the Asian Art Museum of San Francisco in Golden Gate Park gave us another delight with its exhibition, "Treasures from Shanghai--6,000 Years of Chinese Art." Shanghai and San Francisco became "friendship cities" in 1980, resulting in this fine exhibit, which is billed as wider in scope than any previous exhibition coming from the People's Republic of China. It will remain on exhibit in San Francisco through September 30, after which it will be in the Field Museum of Natural History in Chicago November 1, 1983, through February 14, 1984. Houston, Texas, and the Smithsonian in Washington D.C. are the only other showings on the itinerary.

In addition to the many beautiful works of art there were objects of scientific interest, such as the "transparent" mirrors cast in bronze so that they seem to reflect from the face the design on the back; and the bronze water spurting vessel from the Ming dynasty, 1368 to 1644 A.D.

"Transparent" mirrors were cast in a flat mold and then polished into a concave shape. Polishing caused the thinner sections of the mirror to buckle. As the polished casting cooled, the thinner sections popped back into place. This caused small bulges in the face of the mirror, corresponding to the thinner areas in the design on the back. These irregularities then reflected light from

the face of the mirror in the same design as the back. The mirrors in this collection were cast from 206 B.C. to 8 A.D. Many conjectures had been made since then as to the way the mirrors were made, but the true explanation had to wait for modern experiments.

The water spurting vessel of cast bronze is a shallow basin with a flattened bottom and a wide mouth rim, with two flattened semicircular handles on the rim. The inside bottom of the basin is ornamented with four carp figures, from the mouths of which are engraved lines representing ripples of water. When the basin is filled with water and the handles are rubbed along the flattened tops with the hands, the vibrations cause a sound like humming bees. As the sound becomes louder, droplets of water spurt upward, seeming to come from the mouths of the carp figures incised in the bottom. This effect is due to the build-up of vibrations. The vessel is made in such a way that there are four points of build-up. The mouths of the fish are purposely placed on these four points, so that the water seems to spurt from these mouths.

In full motion the water spurting is quite spectacular. Hershall had a good time with the water spurting vessel, since all were invited to try it. For me, an almost more exciting moment came when I discovered a small Guan ware vase with crackled celadon glaze in the exhibit, the original of a replica I had been unable to resist at an antique show in earlier years.

The Moffett Field Naval Air Station's 50th anniversary air show and open house provided a dramatic climax to this vacation. The Blue Angels were the featured attraction, but other flying events proved almost equally spectacular. The Eagles Aerobatic Flight Team, three small biplanes flown by the three members of the winning U.S. world competition team in France, was one of the most exciting.

NASA's XV-15 research aircraft amazed the crowd of 300,000 the day we were there by taking off vertically with its twin rotors tilted upward at a 90° angle and rotating them to the horizontal for level flight. NASA's Quiet Short-Haul Research Aircraft (QSRA), the first four-enging jet to operate from an aircraft carrier at sea, was also a crowd pleaser.

Open house was held in the giant Moffett Field hangar, built in 1933 for the Macon, a U.S. dirigible twice the size of Germany's Graf Zeppelin, which was then in transatlantic passenger service. This hangar has "orange peel" doors that open both ends completely and is so large that airplanes have been flown through it. For this occasion four hot-air balloons were carrying people aloft in one closed end of the hangar--and occupying less than one-fourth the floor space at that. The floor alone covers eight acres. It is always a thrill to be in that hangar with its memories of some of aviation's most interesting history.

Florence Boring

\*\*\*\*\*  
-----WANTED-----WANTED-----WANTED-----WANTED-----WANTED-----WANTED-----

AS MOST OF YOU KNOW I HAVE A COMPLETE SET OF LAPIDARY JOURNALS FROM THE FIRST ISSUE. IN THE PAST I HAVE LOANED THEM OUT TO CLUB MEMBERS AND NOW IN CHECKING I FIND THAT I AM SHORT THESE ISSUES.....VOLUME 1 1951.....#APRIL "ROCKHOUND BUYER GUIDE 1956... JAN.MARCH....MAY...JULY...SEPT...NOV...1960 ISSUES.....1961 ISSUES JAN...MAR MAY JULY SEPT. NOVEMBER.....1962..ISSUES JAN...MARCH...IF ANY ONE HAS MY COPIES PLEASE RETURN....IF YOU HAVE ANY OF THE ABOVE COPIES TO SELL ME PLEASE LET ME KNOW.

IRL EVERETT .....466 - 6204...-- 2941 NO. 65th .....LINCOLN NEBR.

\*\*\*\*\*

THANKS  
EVEY

# HINT:

Cleaning Copper by George Fisher -

We have all heard many ways to clean copper specimens, coins, etc. Many are complicated and costly. Some processes will keep copper specimens clean for a short time, while others will keep the specimens clean over an extended period.

A very simple and inexpensive process has been found that is within the financial means of everyone. The results are fantastic and your specimens will remain clean for two or three years.

This may sound foolish, but all you need is "Toni" wave lotion from a "Toni" home permanent kit. Place the solution in a bowl (glass) and submerge your specimen and slosh around for about 45 seconds.

Remove and rinse in water. This is all you do. Do not put neutralizer or ammonia on the specimen as it will dull it. Do not try to clean too much copper with it (the same solution) as it becomes weaker with use. Try it, I think you will like it.

- Via BEN, July 1983  
via The Glacial Drifter 3/77

A WORD OF CAUTION - Using lint from the dryer to help in the final polish for tumbling has been a favorite hint...but please be very CAREFUL of what kind of lint you use. Toilet tissue will have the same effect without the danger of dust and grit and sand trapped in the lint catcher which will scratch finished stones..

- Via BEN, 7/83  
& many exchange bulletins

THIS BILL WILL SAVE OUR FIELD TRIPS

( An excerpt from the MIDWEST Federation Banquet Talk)

By June Zeitner

.... I want to thank all those who wrote letters of comment about the BLM proposed field trip regulations last fall. Your aid in helping save our field trips bought us time. I learned something about making comments to the Government by studying my list of the places the 1200 comments were from. ( Another 300 arrived too late to be counted.) Among the 1200 comments were many representing large groups of people- clubs, federations, museums and universities... tens of thousands of people... but each letter counted as one comment. Diane Dare wrote a strong letter in behalf of the Midwest Federation. One comment. But an officer of the Richland Lithnic Club of Mansfield Ohio wrote a letter for the Society and each member present at that meeting also wrote. These comments may have been all more or less the same, but they were signed individually and mailed in separate envelopes and the result was dozens of comments. A few individuals in Midwest wrote several letters and each one counted. Sheer numbers impress politicians and bureaucrats like nothing else. Next time you are asked to help, don't leave it up to your club or federation. Do it yourself. Even if it is only a few words, write, and have your family and friends write.

There have been rumors that the professional scientists are against us. Most are not. But just so you realize what some of the Professionals from Universities and Museums think of us, here are some of the comments they sent to BLM.

From Florida: " An amateur rockhound finding a good specimen with 'gem quality teeth' will hack up the skull, leaving the fossil in shambles. "

From Yale: " We have no idea how much has been lost to the public and to science through the activities of recreational collectors. "

From Utah: " Allowing amateurs to collect petrified wood is paleontological rape. "

From Georgia" " Amateur rockhounds and fossil collectors all have a universal ' pot hunters' attitude in going for the spectacular and complete specimens while destroying the site data and supplemental evidence. "

Most of these people were not in agreement with the BLM either, though for different reasons. These professionals have obviously lived deprived lives, since they have not become acquainted with any of our productive,

careful, ethical, and generous hobbyists.

However most of the professional comments were like the following.

The University of Michigan: " It has been my experience that many of the best fossil specimens are not found by professionals, but by amateurs who collect material for monetary or hobby purposes. Regulating these individuals would only serve to lessen or eliminate a broad unofficial network of amateur researchers who greatly aid the professional. "

From Washington D.C.: "Most of the Mineral and Fossil specimens in the museum collections around the world were collected by the amateur or the commercial collector. Fossils of scientific interest usually end up in collections which can be appreciated by the public and studied by science."

From the Midwest. ( My favorite). " Please excuse my stationery. I have been hospitalized for a number of weeks and this is all I have available. Fossil collecting has been of overwhelming interest to me ever since my college days 50 years ago. I am a professor of paleontology and curator of one of the most important small museums in the Midwest with an outstanding collection of Silurian and Devonian fossils. We would not have this collection if it were not for the amateur collectors of the late 1800s. Amateurs today are making just as important finds , most of which end up in museums after the finders have had the pleasures of discovery and satisfaction of making scientific contributions for the good of all. Amateurs provide free time, eager eyes and important contributions. " These words in support of us were written by Dr. Katherine Nelson of the University of Wisconsin at Milwaukee, who died shortly after she wrote this letter.

Last winter I was asked to give the hobbyists point of view in the collecting of fossils, by a national committee working to write legislation to replace BIA regulations based on the long outdated Antiquities law of 1906, with the type of law which would encourage collectors and preserve and conserve our fossil heritage. Head of the committee was Dr. Farish Jenkins, Paleontology Curator for the Harvard University Museum and immediate past president of the Society of Vertebrate Paleontology, and a National Park Service Consultant.

I was happy to point out the scientific and monetary value of the volunteer work done by amateurs . I noted the part we have played in earth science education, particularly our Scholarship funds. I mentioned our Midwest Holotype collection, and the generous participation with museums by clubs like ESCONI and the Lincoln Nebraska club, and the dedicated scientific work of MAPS. (Mid America Paleontology Soc.)

I tried to stand up for the rights... and the responsibilities... of the amateurs. When asked what organization could best represent the hobby on a national advisory committee I said that in my opinion AFMS was the one best qualified.

This piece of legislation has now been introduced. S 1569 is mostly about vertebrate fossils. It covers excavating, collecting and the removal of such fossils from public lands for Institutions purposes, commercial purposes and private purposes. However there are some sections of this bill specifically for us.

" NO PENALTY SHALL BE ASSESSED FOR THE EXCAVATION, COLLECTION, AND REMOVAL OF NON VERTEBRATE FOSSILS OR NON FOSSIL GEOLOGICAL MATERIALS. "

" NO PERMIT WILL BE REQUIRED FOR COLLECTORS OF ROCK OR MINERAL SAMPLES OR NON VERTEBRATE FOSSILS/AND NO FEE WILL BE REQUIRED. "

Of major importance is that, for the first time, this act acknowledges the gem, mineral, and fossil hobbyist, and guarantees our rights of collecting on public lands. IF ENACTED THIS BILL WILL BE THE ONLY BASIS FOR REGULATING THE EXCAVATION AND REMOVAL OF ROCKS, MINERALS, AND FOSSILS FROM PUBLIC LANDS. ( Except, of course , where prohibited, such as National Parks.

I am sure there will be lots of opposition. Plenty of people think that nothing should ever be collected anywhere by anyone. Others think that noone except a professor with a PHD should be allowed to collect. This bill is a historic compromise for the good of education and science by all three groups most concerned with the removal and study of fossils. It is an agreement of future cooperation.

I don't know how we could be so lucky as to have Dr. Jenkins of Harvard be so sympathetic and supportive of the amateurs' interests. Remember, when you read the bill that Dr. Jenkins, the Society of Vertebrate Paleontology, The Paleontological Society, and the Association of Paleontological Suppliers did not have to include the amateur. In publicly recognizing us they have acknowledged the important contributions of amateurs. They have acknowledged our generosity, our scientific and educational goals, and our willingness to cooperate. They have even given us a chance to have a representative on the National Advisory Committee, to speak up for our interests in the future.

There were piles of new BLM regulations this summer. One part withdrew

petrified wood from hobby materials, revokes the right to pool or trade specimens of petrified wood, and gives local officers the right to cancel petrified wood collecting.

This new bill should save us from constant and often capricious rulings. It will be decided by Congress, and we will have to let Congress know our wishes. We are going to need lots of letters of support. The passage of this bill will be the big boost to the future of our hobby we have all been waiting for.

Make no mistake about it, there will be a battle over who is right... Dr. Katherine Nelson who worked for our interests from her death bed, or the curator from Georgia who thinks we are thoughtless and destructive "pot hunters". The paleontologists have given us a big chance to show who we are and what we can do. We cannot fail.

---

Please write your Senators and Representatives about your support of this bill " The Paleontological Resources Conservation Act of 1983!"

Send copies to Senator Pressler ( R. S.D.) who introduced the bill and Senator Paul Tsongas ( D. MA) co-sponsor, and to the following members of the Senate Committee on Energy and Natural Resources.

James Mc Clure, Malcolm Wallop, Chic Hecht, J. Bennett, Henry Jackson, John Melcher. ( Senate zip is 20510.)

Send copies to the following members of the House Interior and Insular Affairs Committee. Morris Udall, John Seiberling, Phillip Burton, Bruce Vento, Manuel Luhan, Don Young, Dick Cheney, Charles Pashayan, Jr. ( House Zip is 20515.)

\* \* \* \* \*

WORDS

Here is a FIND from recent readings:

The Lord's Prayer has 56 WORDS. The story of the Creation of the Word was told in less than 100 WORDS. Lincoln's Gettysberg Address has 266 WORDS. The Ten Commandments have 297 WORDS. The Declaration of Independence has 300 WORDS. A recent U.S. Government order setting the price of cabbage contained 26,911 WORDS!!!!

Via Breccia  
Petrified Log, etal

## PLUME OR DENDRITE

It is not uncommon to see some agates from west Texas labeled as dendritic agate, and it is not uncommon to see some agate from Montana labeled as plume agate. Is there a fundamental difference between dendrites and plumes?

Plume agates from about 18 miles south of Alpine, Texas have been known since about 1890, having first been recorded by the pioneer geologist, Udden. Some of these agates were displayed in the Texas Pavilion at the Trans-Mississippi exposition in St. Louis, in 1901. The plumes are characterized by feathery inclusions made up of metallic sulfide minerals, usually marcasite or pyrite. Some other sulfides have been seen to form plumes and these include cinnabar, orpiment, realgar, and possibly stibnite. In the west Texas agates, the agate has formed around the plume; it is not too uncommon to see an occasional bubble beside one of the tiny sulfide crystals. The west Texas agates occur in andesitic rocks of Oligocene age. It is known that minerals crystallize out of a magma or lava in a given order--- Olivine-Pyroxene-Amphibole-Biotite, followed by feldspars, quartz, ad nauseum. The final product to crystallize is the sulfide minerals. These can crystallize in vugs formed by gasses in the lava or magma. Thus, the plumes are there first. After the lava flows have been extruded, highly explosive volcanic eruptions of rhyolitic lavas may deposit welded tuffs or ignimbrites over the andesitic rocks. The tuffs are excellent sources for silica. As the tuffs are weathered, silica is leached from them and is in turn deposited in the vugs that contain the late-stage plumes that crystallized in the vugs in the rocks formed by the previous eruption. Thus, in plume agates, the plume was there first and the agate formed around it. Some of the plume forming minerals may be oxidized to an oxide such as hematite or limonite---products formed from the weathering of sulfide minerals.

In dendritic agates, we have a different story. The agate first forms in a cavity in extrusive rocks or even sedimentary rocks. Dendrites are formed by oxide minerals such as limonite, pyrolusite, and a host of other manganese and iron minerals. The dendrites form when the agate spends some time being permeated with solutions (probably water) that is saturated with minerals. The dendrites are laid down in the spaces between the bands of the agate or along fractures within the agate. In other words, the agate is there first and the dendrites form within the agate. There is a fundamental difference between plumes and dendrites.

Cutting nodules of plume agate to reveal plumes is not too difficult. One need remember only to cut the agate in the longest, flattest direction---just as one would slice a biscuit. I usually tumble the rind off of these agates to get a view of what is inside and how it lays. Then I block up the nodule in plaster or simply glue it to a board with Elmer's or similar glue. Often I will use a magic marker to make lines to which the cut is parallel. I never get impatient with any of the plume agate nodules. I am just now cutting some specimens that I collected in May of 1974.

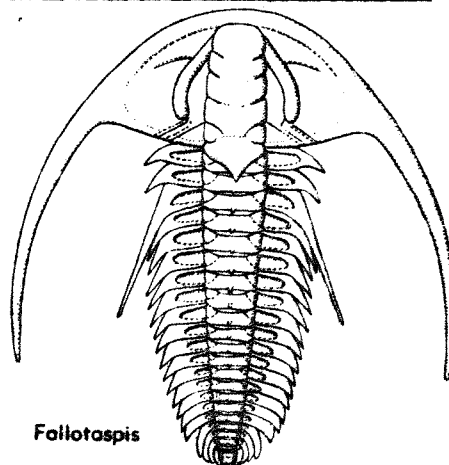
Some fine dendritic agates may not show a trace of dendrites when the agate is candled by passing light through it. It seems that the microcrystals of chalcedony have fiber-optic properties such that light passes in just one direction. I have seen some Montana agates that were slabbed and the slabs appeared clear and devoid of plumes in one direction and were loaded with plumes in the other. Clarity is no sign that a Montana agate will have no plumes. Some of the finer plumes come in some very unlikely-looking nodules. Often, the flat nodules will have the finer dendrites. These should be blocked up and cut as a biscuit. Fine dendrites can also be found in the spaces between the parallel bands of the onyx variety of Montana agates.

Roger Pabian  
Education

## AFRICA

My first encounter with Africa came when I was in the U.S. Army in 1955. I was on my way to Naples, Italy on a Merchant Marine vessel. We had a one day shore leave at Casablanca, then in French Morocco, and did the things that Americans are expected to do such as sip cognac in a bar that might have been owned by Rick Blaine, and visited the flea markets where pickpockets ran wild. I did not lose my money but at least one of our group did.

The following day our ship sailed along the north coast of Morocco, just several miles off shore, and we were treated to a spectacular view of the Atlas Mountains. These mountains are colorful and scenic and give one the impression of the Grand Canyon having been turned inside out. The Atlas Mountains have yielded some very interesting early Cambrian age trilobites such as Fallotaspis shown above. This peculiar trilobite has been reported from only that area. During the late 1950's, a movie was filmed in this area and one of the stars, Piper Laurie, a rock collector, wrote a news item about her adventures. She told of finding both amethyst crystals and agates in these mountains.



Fallotaspis

From Treatise on Invertebrate Paleontology, Vol. 0, p. 0191

If we look at the opposite end of the continent, we find diamonds in the Union of South Africa. About 80 percent of the world's gem grade diamond production comes from just five mines in this area. These mines are called the "Big Five." The most famous diamond to have been mined there is probably the Cullinan Diamond. It weighed over 3,000 carats and was just a cleavage off of a larger diamond that was never found. The Cullinan was cut into a number of smaller stones that now reside in the crown jewels of Great Britain.

The Tsumeb region in South Africa is well known to mineral collectors. Many fine mineral specimens have been collected in this area. Green quartz crystals are perhaps the best known but numerous mineral species have been collected there. A glance at the booths of mineral dealers at shows or a look at the advertisements in the various journals will reveal a great diversity of minerals from Tsumeb.

Botswana is well known for its agates. These are often seen at shows; they have interesting patterns but almost all are a purplish blue or a gray color. They are easy to polish and relatively fracture free. The Botswana agates have formed in deeply weathered, late Precambrian age basaltic rocks. They are sometimes referred to as "African Lakers" because of their similarity to Lake Superior Agates. It is interesting to speculate that these agates may actually belong to the same population of agates that includes the Lake Superiors. Many geologists believe that in the late Precambrian time, there was but a single pangean continent. All of these agates may have formed at the same time on the same continent, marking the worldwide late Precambrian unconformity.

Some very colorful agates have come from Malawi. These have colors that rival the fine agates of northern Mexico. Unfortunately, most are badly fractured and most also contain great amounts of euhedral quartz.

Bring any African material for display. Cases will be there.

Roger Pabian  
Education

# Midwest Federations NEWSLETTER

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JUNE 1983 - Issue No. 235

## Mini-Minutes

The MWF Spring Executive Meeting was held April 16, 1983 in Macomb, Illinois. The Host club was the Mid America Paleontology Society (MAPS). They were holding their annual show at Western Illinois.

There was a short State Directors Meeting immediately followed by the Executive meeting. Don Good, President of MAPS welcomed the group and invited all to include the fossil show in their stay in Macomb.

The committee reports were given. The show committees for future MWF Conventions and Shows gave up to date information. The scheduled shows are: 1983 - Kalamazoo Geological & Mineral Society, Michigan; 1984 - Wisconsin Geological Society, Milwaukee, Wisconsin; 1985 - Sioux Empire Gem & Mineral Society, Sioux Falls, South Dakota; 1986 - Michiana Rock & Gem Club, Inc., South Bend, Indiana (AFMS). Jim Taylor is accepting bids for the 1987 show.

If any MWF member has a slide of the Holotype table and sign, "Are you a Fossil?", from the Cincinnati MWF Convention in 1973 or ... the completed display out at Lincoln in 1974 a copy would be appreciated by Janice Root, 6861 Desmond, Waterford, MI 48095.

The main item on the agenda was the subject Competitive Judging. The issue of payment for competitive judging was discussed. There was no action except to table the question until the July meeting. It was stated during the discussion that judges fall into the same category as other dedicated MWF workers who have and are continuing to serve year after year without pay. On the opposing side it was stated that the high quality of judging that now exists at the MWF Show would be jeopardized if these funds were not available.

## safety

As mentioned previously, to be eligible for this year's beautiful Safety Commendation Certificate, clubs having presented shows, swaps, etc., for 1982, MUST send for the Questionnaire drawn up by the Safety & Field Trip Committee. To: Mrs. Helen R. Neumann, 20955 Balfour, Mt. Clemens, MI 48043.

As the MWF Safety Representative to the AFMS I submit their Safety-at-home suggestions:

Run the grinding wheels in the proper directions.

Never use or boil acids in a closed area. Wear Safety glasses. Wear a dust mask with any dry procedure, as: dry sanding, polishing, carving, etc. Be careful when working with malachite, abalone shell or other toxic materials. Obey warnings on containers. Don't melt unknown silver - irreparable lung damage or death could result.

Helen R. Neumann, Safety & Field Trip Chairman

### MINING IN MICHIGAN - A CATALOG OF COMPANY PUBLICATIONS 1845-1980 by LeRoy Barnett

A new book on mining industry in Michigan... Anyone interested in Michigan's mining industry will find this book to be an invaluable reference. Virtually every extant publication issued by mining companies is included, from the obscure Lake Superior Silver Lead Co. to major operations such as the Cleveland-Cliffs Iron Co. Many of the firms were in iron and copper mining, while others have extracted a variety of minerals including gold, salt, dolomite and graphite. LeRoy Barnett is the archivist for the Department of State's Michigan History Division in Lansing. He has traveled extensively in compiling the catalog, which lists 2,263 publications, located in a total of 37 depositories, ranging from Boston and New York to Milwaukee and Duluth. Order from the Northern Michigan University Bookstore, Marquette, MI 49855. Cost is \$7.95 plus 96¢ for postage & handling.

The Rockhound is happiest when he is down in the 'dumps' and is not a petrified dog!!!

NEW ASSISTANT DIRECTORS

Michigan: Gordon & Jeanette Boone, 180 Brooklane Ave., Holland, MI 49423

Wisconsin: Leo D. Mueller, 231 Cranberry Road, Wisconsin Rapids, WI 54494  
Peter Hornburg, N45 W32578 Watertown Place, Nashotah, WI 53058

PRESIDENT'S MESSAGE:

Diane Dare

Seventy years ago the United States Mint honored the vanishing buffalo with a new five-cent piece. Fortunately, the buffalo has not disappeared. Working to see that our hobby areas do not disappear is the MWF Environment Committee, chaired by John Boland, 2211 Valley Rd., La-Crosse, WI 54601. MWF Legislation Chairperson is Sheryl Caponera, 2330 Collins St., Blue Island, IL 60406. These committees, as well as ALL MWF committees, need your help and ideas and support. They are working for you; they represent you, the individual rockhound.

ARCHAEOLOGY MWF members who are interested in participating in archaeology are invited to contact the following:

Arkansas: Arkansas Archaeological Society, P.O. Box 1222, Fayetteville, AR 72702-1222. Ask about the Training Program for Amateur Archaeologists (Field School).

Illinois: Mr. Pete May, Curator, Center for Archaeological Investigations, Southern Illinois University at Carbondale, Carbondale, IL 62901. No field school plans for summer '83; always glad to deal with the public on archaeology related matters.

Center for American Archaeology, Ellen Gantner, 1911 Ridge Avenue, Evanston, IL 60201. Field Schools at three locations this summer. Ask for brochure on Associates Programs at Kampsville, IL; Crow Canyon, CO; and Fox River Valley, IL.

Indiana: Mary Green, President, Indianapolis Amateur Archaeological Assn., 2932 Fordham Lane, Indianapolis, IN 46268. Ask for information about monthly meetings and periodic workshops.

Nebraska: John Ludwickson, Nebraska State Historical Society, 1500 R. Street, Box 82554, Lincoln, NE 68501. In particular need of volunteer laboratory assistance from responsible interested amateur archaeologists.

Glen K. Hanning, Archaeology Chairman

1983 EXPO OF GEMS

The Nation Gem & Mineral Show will be hosted by the Rock Rollers Club in Spokane, WA, August 4-7.

In addition to the many displays, demonstrations, lectures, silent auction and dealers, there will be several field trips and tours of specific interest to the rockhound.



HAVE A  
GOOD  
SUMMER!

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- Closer Working Relationships Among Amateurs and Professionals
- Dissemination of New Information and Research

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MAY MEETING - ECHINODERMS - STARFISH  
JUNE OUTDOOR MEETING - PIT 15 - PENNSYLVANIAN PERIOD  
JULY MEETING - DRESDEN FLORA  
AUGUST MEETING - TRILOBITES  
SEPTEMBER MEETING - CORALS AND JELLYFISH  
OCTOBER MEETING - TURTLES

MEETING INFORMATION

Second Saturday of Each Month 7:00 PM  
Blue Island Community Service Center  
12812 S. Western Avenue  
Blue Island, IL 60406

FOR MORE INFORMATION CALL:

Paul Caponera	(312)-388-4432	John Catalani	(312)-739-2644
Larry Osterberger	(312)-758-8738	David Hutchison	(218)-838-8589



AUCTION

FOR SCHOLARSHIP FUND AT MWF  
SHOW

There is a change in the AFMS Scholarship Auction at the MWF Show. There will be auctions every day but only one day is allotted to the Scholarship. On Friday July 15 starting at 1:00 this auction will commence.

If you plan to contribute, please bring good to excellent quality material. No magazines please, time does not permit. Make arrangements with the auction committee regarding the disposal of any material not sold by the end of the sale.

The Auction Committee will need some help all day Friday. Please come and join in the fun. Contact: Norman Brown, 360 Tonga Drive, Hiawatha, IA 52233

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SEPTEMBER 1983 - Issue No. 236

## PRESIDENT'S MESSAGE,....

Diane Dare

A committee was appointed at the Executive Committee Meeting to draw up a workable proposal for the Uniform Rules proposals regarding judges and remuneration. PLEASE make your comments on the matter to the Chairman, Jim Edwards, before October 15. Final decision will be made at the Fall Executive Committee Meeting in November. Serving with Jim Edwards are Katie Steinbrenner, Russ Kemp and Cal George.

Thirty years ago in 1953, the MWF had thirty member clubs. The convention was held in St. Louis that year, with programs on Friday, Saturday a field trip and the awards banquet, and on Sunday morning, the council meeting. Oh, how we have grown! Not only the MWF has grown, so have our conventions and meetings! This issue, and subsequent ones, of the Newsletter brings you some of the highlights of the show in Kalamazoo, which was "the place to be in '83". We hope you enjoyed it as much as we did.

P.S. We're told Milwaukee will have "even more in '84"!

IMPORTANT NOTICE!!! MWF DIRECTOR OF SUPPLIES Nanette Aiken is the new Director of MWF Supplies. Her husband, Fred Aiken III, is her assistant. PLEASE mail orders for supplies to Nanette at 219 Park Drive, Glenwood, IL 60425.

## KALAMAZOO, MICHIGAN

The ten certificate of merit recipients in the 1983 Education Thru Sharing recognition program were STANLEY E. VOTRUBA, Missouri Valley Gem & Mineral Society as the 1983 Club Member of the Year; ROBERT L. GUENTHER, Richland Lithic & Lapidary Society as 1st runnerup; JOAN RUCINSKI, Calumet Gem & Mineral Society as 2nd runnerup; WILLIAM HUGH SMITH, Miami Valley Mineral & Gem Club as 3rd runnerup; AGATHA SHANNON, Rosebud Geological Society as 5th runnerup; LLOYD BROWN, Wisconsin Geological Society as 6th runnerup; CHESTER A. SMITH, Tulip City Gem & Mineral Club as 7th runnerup; JANE HUELSMEYER, Gem City Rock Club as 8th runnerup; FLORENCE HILL, Central Michigan Lapidary & Mineral Society as 9th runnerup.

The Education Thru Sharing program encourages member clubs to give recognition to those very fine individuals who give so much of themselves to teach others our hobby. The 1984 award will be based on the year 1983. Information on recommending someone for this award program will be out shortly after the Christmas holidays. Individual club members should start keeping records of their work in this area. Deadline for the 1984 award recognition will be May 1, 1984.

Margaret M. Pearson, Chairperson for Education Committee

ALSO FROM KALAMAZOO... It was announced at the MWF Show that we have a new slide program added to the Midwest Federation program library and will be available to member clubs soon. Entitled A MICHIGAN COAL SWAMP, this program is a very fine discussion of the plant and animal life that once inhabited the swamp that millions of years later would become a coal field. The programs creator, Arline Buehler, has further enlivened her subject by serving up an interesting variety of fossils along with renderings of what the growing plants looked like. This program will be enjoyed by all rockhounds, whether they are in to fossils or not. It is dedicated to Don Stinnett, former Program Chairman and Assistant State Director.

ARCHAEOLOGY... Any MWF members interested in archaeology are invited to contact: Dr. Victoria Dirst, Dept. of Sociology and Anthropology, U. of Wisconsin-Oshkosh, Oshkosh, WI 54901  
"...available to present public talks on archaeology, and to lead lithic technology workshops. Local amateurs are frequently invited to participate in small one day testing projects. They may also participate in the summer field school archaeology, either as regular students, or in limited numbers as volunteers."  
Glen R. Hanning, Archaeology Chairperson

AFMS SCHOLARSHIP FOUNDATION HONORARY AWARD

Dr. Tibor Zoltai of the University of Minnesota, Dept. of Geology and Geophysics has been named to receive the American Federation of Mineralogical Societies Scholarship Foundation Honorary Award for 1983. A native of Gyor, Hungary, Dr. Zoltai was detained in forced labor camps in Germany a few months prior to the end of WWII. Following the war, he rejoined his family in Austria, moved to France where he attended the Sorbonne in Paris for two years, and then emigrated to Canada in 1950. He studied Geological Engineering at the University of Toronto, then came to the U.S. in 1955 for graduate study at MIT where he earned his Ph.D. in Mineralogy. Dr. Zoltai joined the staff of the University of Minnesota as a Teaching Assistant in 1959 and has been Professor of Geology since 1964, including 8 years as Chairman of the Department. Dr. Zoltai became a U.S. citizen in 1966. During his tenure at Minnesota he has taken sabbaticals to West Germany and Venezuela. Special interests include the crystal structure and chemical classification of minerals and the geology and health effect of asbestos minerals. Dr. Zoltai has already selected the two graduate students for the MFMGS Scholarship. The names and pertinent information will be forthcoming in a future issue of the Newsletter.

---

ADDITIONS OR CHANGES TO THE 1983-1984 MWF DIRECTORY

New Liaison between MWF and Canadian Federation: Mr. Alex Marshall, 11076 Baraga, Taylor, MI 48180

Two new assistants for Illinois: Bill Downing, 18008 Park, Lansing, IL 60438; and Bruce Lundin, 8232 N. Major, Morton Grove, IL 60053

The Protocol Chairman, Jacque Nawojski, has resigned the job.

Betty Meyers, Directory Chairperson

---

An interesting development at the Coulee Rock Club of Wisconsin this Spring has to do with community involvement. An instructor at the U. of Wis. La Crosse first borrowed materials to use in a presentation to a teachers convention. She then asked for two assortments of specimens for teachers outside the La Crosse area. The materials had been observed at a club gem show. This instructor was then invited to a club meeting in May to present her program to the club and explain how she was implementing the governments urging for better preparation of science students. Her job is to teach the teachers how to make science interesting by demonstrating "hands-on" projects, etc. She requested the club members to act as resource persons, and to provide specimens when required. This is a switch when the University teachers find value in our hobby's methods of teaching. I think this also confirms our value as an educational body. This program extends into several counties in western Wisconsin.

Mary Boland, Wisconsin State Director

---

BULLETIN EDITORS

Rita Hagerbaumer

The Bulletin Editors Contest in 1983 is over. Time to get ready for the 1984 contest. 500 copies of the 1983 Awards and a few comments were available at the Editor's Breakfast at the MWF Show in Kalamazoo. There were 184 editors in the MWF and 76 entries in all categories were sent to the contest - which means that some editors sent bulletins, publications, and sometimes two original articles. Many more of you editors should be entering the contest in some category.

Thirty entries were sent to AFMS contest categories -- 23 awarded honors and seven named the best in the MWF. The Kentucky Agate, Miles Smith won a second place in Mini Bulletin contest; The Rock Rammer, Mildred Heckert won a first place in the Small Bulletin contest; Tulip City Conglomerate, Julia Donker, second place in Small Bulletins; Gem City Rock News, Rita C. Hagerbaumer, first place in Large Bulletin contest; The Tully, Betty Van Erden, third place in the Large Bulletin contest. Judy Stark won a first place in the Junior Article contest; in Special Adult Articles, Carl E. Wehr took third place.

All MWF editors and members are to be congratulated on sending material to the contest. The MWF winners at Kalamazoo will be listed in the October Newsletter.

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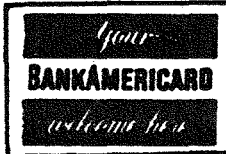
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## J J & L ROCKS & MINERALS

"Supplies for the novice to the discriminating Rock Hound"

(402) 792-2337

Shop at 330 Locust, Hickman, Ne.

Mail order & Free Catalog, Box 68, Hickman, Ne. 68372

Jim Marburger

John Harrison

CUSTOM CUTTING  
FOSSILS

ROUGH  
MINERALS  
SPECIMENS

CABACHONS  
FINDINGS  
SLABS

FINISHED JEWELRY  
SUPPLIES

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 \$15.00 per full page per insertion, paid in advance. 1/2 page \$7.50, 1/3 page \$5.00 1/4 page \$3.75 (min). These ads will be placed throughout the bulletin as space permits.

*Subscriptions* to THE PICK & SHOVEL are \$5.00 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:**

We resume our General Meetings this month. It will be held September 24th at 7:30 P.M., Nebraska Center for Continuing Education, 33rd & Holdrege.

Parking is available north of the building.

We'll be looking forward to seeing many of you at the meeting.

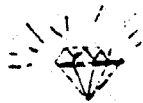
An interesting evening is planned.



**h.e.l.p.**

HELP ELIMINATE LITTER PLEASE!

Lincoln Gem & Mineral Club  
Box 5342  
Lincoln, Nebraska 68505-0342



**BULK RATE  
U. S. POSTAGE  
PAID  
LINCOLN, NE  
PERMIT NO. 799**

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