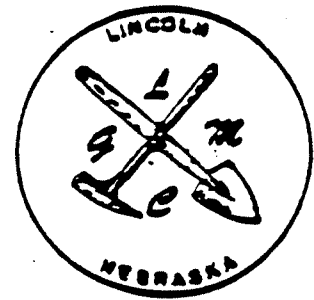


# THE PICK & SHOVEL



MARCH  
1986

In this issue

...EASTER by John G. Neihardt

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MEMBERabilia - Garen Miller

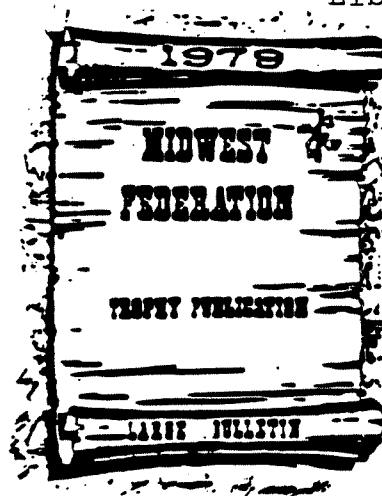
AMBER - fossil resin

THE LANDS OF THE SOUTHWEST INDIANS -  
PART II

Juniors News

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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)  
Friends of the Museum

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

1986 ELECTED OFFICERS:

President.....	Linda Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
1st Vice Pres.....	Janet Wright	3715 S. 33rd St.	Lincoln, 68506	488-1884
2nd Vice Pres.....	Kevin Schwartzman	1134 West Avon Ln	Lincoln, 68505	464-3059
Secretary.....	Vera Lyman	420 N. 56th St.	Lincoln, 68504	464-6089
Treasurer.....	Phyllis Parks	2435 S. 19th St.	Lincoln, 68502	476-6798
Board Member.....	Fred Holbert	2822 S. 13th St.	Lincoln, 68502	423-5639
Board Member.....	Nelia Miller	1101 Rosewood Dr.	Lincoln, 68510	489-6093
Board Member.....	Tom Simmons	2970 South St.	Lincoln, 68502	488-1619
Board Member.....	Marie Taylor	910 New Hampshire	Lincoln, 68508	476-3707

NOMINATING COMMITTEE -- 3 years: Irl Everett, Richard Miller  
2 years: Vera Lyman, John Lewis  
1 year: Jim Parks, Ervin Marshall  
Claude Scott, Chairman

LONG RANGE PLANNING AND BY-LAWS COMMITTEE:

1 year - John Abel, Roger Pabian  
2 years - Jim Taylor, Irl Everett  
3 years - Claude Scott, Phyllis Parks  
Claude Scott, Chairman

STANDING COMMITTEE CHAIRPEOPLE:

All-American Award...	Janet Wright	Librarian.....	Jim Parks
Calling.....	Phyllis Parks	Membership.....	Shirley Rockel
	Marie Wells	MWF Liaison.....	Marie Taylor
Education.....	Roger Pabian	Programs.....	Kevin Schwartzman
Field Trips.....	Tom Simmons	Publicity.....	Roger Pabian
Historian.....	John & Lillie Lewis	Scholarships.....	Marie Taylor
Hospitality.....	Ed Ridge	XMAS Party.....	Janet Wright
Housing/Property.....	Claude Scott	1986 Rockhound/Yr....	Janet Wright
Jr. Activities.....	Nelia Miller	1986 Annual Show.....	Fred Holbert
	Janet Wright	1987 Annual Show.....	

AUDITING COMMITTEE 1985.....Lois Everett, David Heffelbower,  
Ervin Marshall, Shirley Rockel,  
Phyllis Parks, Treas.

PICK & SHOVEL STAFF:

Editors.....Board of Directors  
Co-ordinator...Vera Lyman, 420 N. 56 St. Lincoln, NE 68504 (NAOESCI Reporter)  
Circulation....Dave Heffelbower  
Sunshine Corner..Gail Clare Scott  
Reporters....."CLUB MEMBERS"

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.

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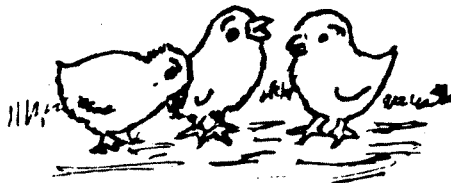
# Calendar of Events

28th ANNUAL SHOW:

Friday, March 14, 1986--Set-up. Saturday and Sunday, March 15-16, show open to public.

GENERAL MEETING:

YES! We will have a meeting March 22, 1986, the fourth Saturday. It will be held at 7:30 p.m. in the Nebraska Center for Continuing Education at 33rd and Holdrege Streets. We will be having fun as we recover from the show and plan for the summer! We will meet in the Norfolk room.



YOUTH MEETING:

7:00 same place as adult meeting.

APRIL BOARD MEETING:

April 7, 1986 (Monday), 7:30 p.m. downstairs in American Charter Savings & Loan, 6120 Havelock St.

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## 1 9 8 6 S H O W S & S W A P S F O R Y O U R C A L E N D A R

- March 15-16 Lincoln Gem & Mineral Show. Nebraska State Fairgrounds Agricultural Hall, North 17th Street, Lincoln, NE.
- March 22-23 Cedar Valley Rock & Mineral Show, 1211 Wiley Blvd. SW, Cedar Rapids, Iowa.
- April 26-27 Central NE Gem & Mineral Show, 947 S. Baltimore, Adams County Fairgrounds, Hastings, NE.
- August 2-3 Northeast NE Rock & Mineral Show, Norfolk, NE.
- Sept. 6-7 STATE SHOW, Fort Kearney Rock Club.
- Sept. 13-14 STATE SWAP. Northwest NE Rock Club, Crawford area.
- Sept. 20-21 Plains Rock & Mineral Show, Kimball, NE.

# Regional Show Schedule

The 1986 dates and locations for all Regional Shows and Conventions. The combined American Federation Show and Convention will be held in South Bend, Indiana, in conjunction with the Midwest Federation Show and Convention.

<b>CALIFORNIA</b> Sacramento California June 25-27	<b>EASTERN</b> Providence Rhode Island Oct. 25-26	<b>MIDWEST</b> South Bend Indiana July 17-20	<b>NORTHWEST</b> Medford Oregon Aug. 8-10	<b>ROCKY MOUNTAIN</b> Phoenix Arizona Nov. 21-23	<b>SOUTH CENTRAL</b> Corpus Christi Texas March 7-9
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# EASTER

BY  
JOHN G. NEIHARDT

Once more the northbound wonder  
Brings back the goose and crane,  
Prophetic Sons of Thunder,  
Apostles of the Rain.

His countenance is lightning,  
And still his robe is snow,  
As when the dawn was brightening  
Two thousand years ago.

In many a battling river  
The broken gorges boom,  
Behold the Mighty Giver  
Emerges from the tomb!

O who can be a stranger  
To what has come to pass?  
The pity of the Manger  
Is mighty in the grass-

Now robins chant the story  
Of how the wintry sword  
Is litten with the glory  
Of the Angel of the Lord.

Undaunted by Decembers  
The sap is faithful yet,  
The giving Earth remembers  
And only men forget.



*John G. Neihardt*

From "Lyric and Dramatic Poems"  
University Press

\* \* \* \* \*

Neihardt Day resolution OK'd

Senators approved a resolution Monday designating the first Sunday each August as John G. Neihardt Day to honor the state's longtime poet laureate.

John G. Neihardt was a member of the Lincoln Gem and Mineral Club. He displayed at some of our Shows whenever he was able to do so.

Sen. James Goll of Tekamah introduced LR332 on behalf of the people of Bancroft and the Neihardt Center in the Poet's hometown. It was adopted 28-0.

Neihardt, who has not been replaced as Nebraska's poet laureate, wrote 30 books, including "Black Elk Speaks," and the epic poem "Cycle of the West" that glorified the prairie and its residents. --AP

- via the Lincoln Journal-Star

- submitted by Marie Taylor

# President's Message

Members and friends,

SHOW THANKS: to all our members and friends for their help working and displaying. To Fred, Roger, Kevin, Jan, Billie, Shirley, Phyllis, and the others who have spent time planning our 28th Annual Show. Thank-you.

ALL-AMERICAN THANKS: To our club members who have spent time and money sharing the ROCK hobby with others. To Jan and Shirley who organized the material. Thank-you.

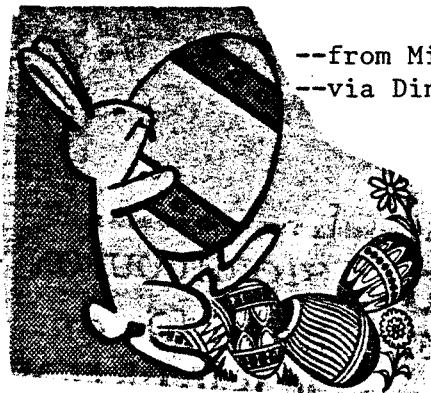
We will be meeting in March. March 22 to be exact. I hope to plan some Spring and Summer field trips and discuss a LGMC display for the State show in Kearney this fall. Bring your ideas for our future activities. How does a special fun trip to Hyde Observatory or Mueller Planetarium for a program on Halley's comet sound?

*Lyn*

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## THE NIGHT BEFORE SHOW TIME

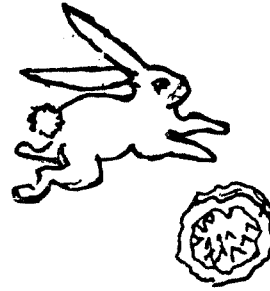
Twas the night before show time and all through the place,  
 Every club member stirred at a breathtaking pace.  
 Like the shoemaker's elves worked each at his task,  
 All smiles---no grumbles when hard jobs are asked  
 The cases were crowded with exhibits exotic,  
 And show patrons thrilled with phrases ecstatic.  
  
 The show days brought hard work but also some fun,  
 And old friendships re-kindled over coffee and bun.  
 Twas the night after show close but do not despair,  
 Every club member was still doing their share.  
  
 The cases all folded and packed in the crate,  
 The building all tidied before it was late,  
 And the show chairman pondered, "I do have a hunch  
 There never could be found a more wonderful bunch."



--from Mineralog  
--via Dinny's Doin's

HAPPY EASTER!! HAPPY SPRING!!!

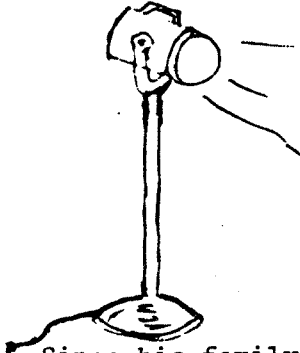
News Flash: This year the Easter Bunny will not be bringing Easter eggs. He will be bringing Amethyst geodes instead!



Get Well Wishes were sent to Mrs. Mueller.

Our Memorial to Wilfred Wittmann has been sent to the Heart team who have helped so many of our members.

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MEMBERabilia

Garen Miller is one of our new young rockhounds. He's in the seventh grade at Lincoln Christian School. Garen has been bringing rocks home since he was a pre-schooler. His nursery school teacher encouraged his hobby.

Since his family loves to travel, Garen has had ample opportunity to hunt rocks in places like the Black Hills. His grandparents share his interests in artifacts and fossils and one grandmother has been collecting rocks since her youth.

Garen has accomplished much in geology. He earned merit badges in Cub Scouts and Boy Scouts. He has given programs on Mesa Verde, Coral Castle, and FOSSILS to several groups including our club. In 5th grade he took third prize in an all-school science fair (including high school participants!) with his fossil exhibit.

He has shared his interest with his parents, grandparents, Scouts, school, LGMC Juniors, LGMC, and anyone else he can find. He has taught smaller children the value of a fossil, a mineral, and a plain old rock. Garen has done his best to publicize our hobby. That's wonderful.

The most fascinating thing about Garen is his museum. He has his own museum right in the house. All of his materials are displayed on built in shelves which take up portions of two rooms at the Miller home. Everything is arranged by this young curator in a professional manner. Had I only known this before Morrill Hall found a permanent director... Well, maybe next time, Garen.

Regretably, Garen may not be able to attend our show this year. He has a conflict with another interest: choir. Speaking of other interests, besides fossils and minerals Garen is interested in singing, math, and geography.

Submitted by Lyn Parks with the help of Nelia Miller

\*\*\*\*\*

FOR SALE: Witchita cases - \$25.00 each  
Call Jim Parks - 476-6798 (evenings)  
466-5440 (days)

## LINCOLN GEM &amp; MINERAL CLUB, INC. - BOARD OF DIRECTORS - Feb. 3, 1986

The meeting was called to order by President Parks on Mon. Feb. 3, 1986, at 7:30 P.M. in American Charter Bldg., 40th & South St. All nine board members were present & also Shirley Rockel & Dave Heffelbower.

Minutes of the Jan. Meeting were read. Motion for approval as read by Fred Holbert; 2nd by Tom Simmons. Carried.

Treasurer's report was read. Motion for approval by Marie Taylor; 2nd by Kevin Schwartzman. Carried.

## BILLS: Paid but presented for approval:

\$ 5.00 Jim Parks (MWF Film Library)  
 25.00 Vera Lyman (31st Anniversary Cake)  
 5.35 Richard Miller (Printing 3.15 Postage 2.20)  
 22.00 Postmaster (Roger Pabian - stamps)  
 33.00 Security Storage - Feb.  
 10.00 Ollie Wittmann (Memorial for Wilfrid)

Motion for approval by Janet Wright, 2nd by Nelia Miller.

For Payment & approval:

\$ 55.40 UN Printing - Jan. P & S

Motion for approval by Marie Taylor, 2nd by Vera Lyman.

## BILLS: '86 Show - Paid but presented for approval:

\$ 16.01 Roger Pabian (Show Publicity)

Motion for approval by Tom Simmons, 2nd by Marie Taylor.

'86 Show - Approval & Payment:

\$ 7.61 UN Printing (Flyers - To Naoesci)

33.86 Accent Printing (Show Flyers)

Motion for approval by Janet Wright, 2nd by Kevin Schwartzman.

All motions regarding "Bills" carried.

OLD BUSINESS:

Ken & Judy Mefford, Blue Hill, NE; Grand Island Club & Roger Pabian donated excellent materials to the Juniors. Nelia will send Thank You Cards to those outside our own Club.

Tom Simmons: Trip to Museum went well on Feb. 2. Will check on possible visit to Planetarium and also visit to NE Hall.

Janet Wright: "Dinosaurs" encyclopedia did arrive. Will have at Feb. Meeting.

Phyllis Parks: Reported 68 paid members to date & 7 Juniors

Kevin Schwartzman: Program report. Still in process of checking on personal name tags. (prices, etc.)

Marie Taylor: Wondered about names of Scholarship Recipients. Motion by Phyllis Parks that Roger & Marie select recipients since we will not have another Board Meeting before presentation. 2nd by Fred Holbert. Motion carried.

Vera Lyman: No chairperson for Sunshine Corner yet. Vera suggested Susan Taylor continue 'till someone is found.

Roger had mentioned delay in Poloroid Camera purchase. Advised waiting, re-Poloroid & Kodak suits.

Phyllis Parks mentioned that no set of 1980 Show Slides in Club Library. Might ask Tom Rule if he has set of negatives.

NEW BUSINESS:

Vera will publish new "Who's Who" for 1986, soon as membership list is completed.

MWF Endowment Fund explained. It is used toward Scholarships. Any person or Club donating will receive credit. President to explain to rank & file at Feb. Mtg.

Information on MWF Show & Convention in South Bend, Ind.; July 17-20, 1986. A delegate & alternate will be decided at March Meeting.

Several AFMS Scholarship Grants were awarded to UNL students.

## LINCOLN GEM &amp; MINERAL CLUB, INC. - BOARD OF DIRECTORS - continued

Post Office is having a "mailers" workshop on Feb. 26. Anyone may attend, however, may be a great help to anyone involved with mailing publications.

## COMMITTEE REPORTS:

All-American - Janet Wright:

Jan reports 5 people have filled in forms for All-American. Shirley Rockel will assist Jan in compiling materials for entry. Due on March 1.

Membership - Shirley Rockel:

Applied for membership - Glenna McGinnis  
3444 Somerset Ave. 466-4878  
Lincoln, NE 68504

Motion to accept as member by Phyllis Parks, 2nd by Fred Holbert. Carried.

Properties - Claude Scott:

It was suggested that Claude make inventory list of properties at Storage shed. Show time would be good time to do this, since many properties are used at that time. A copy of list in Secretary's file so Board has knowledge of location of properties.

Show Report - Fred Holbert, Chairman:

9 Confirmed Dealers; 9 Demonstrators, including McCartney's, Rose's, and Ed Junker.

4 displays from National Competition Cabachon winners.

Programs: Robert Fixter - Pearls

Roger Pabian - Evaluating & pricing agates

Ribbons: Date of Show on plastic sleeve insert rather than ribbons. Can use same ribbons year after year.

Juniors will conduct Silent Auction.

Set-up at 9:00 A.M. on Fri March 14. Linda will take care of coffee & donuts. So far - Fred has 15 volunteers.

There will be no door prizes or Raffle.

The next Board Meeting will be on March 3, 7:30 P.M. at American Charter Bldg. 40th & South Sts.

Respectfully submitted,

*Vera Lyman*  
Vera Lyman, Secretary

LGMC Treasurer's Report - February 1986 NBC Checking 2-1-86 \$ 256.45

Receipts:	1986 Dealer Show Monies	300.00
	1986 Member Dues	38.00
		<hr/>
		\$ 338.00

Payments:	NAOESCI - Gem Palette(54 subs)	108.00
	UNL Printing (Jan P & S)	55.40
	1986 Show Expense	41.47
	Misc. Library, Postage, copies	27.84
	Security Storage (March)	33.00
	NE Center - Jan. Meeting-Swap	130.07
		<hr/>
		\$ 395.78

NBC Checking Balance February 28, 1986

\$ 198.67

LINCOLN GEM & MINERAL CLUB, INC.

MINUTES OF GENERAL MEETING, FEBRUARY 22, 1986:

Officers present: Lyn Parks, Kevin Schwartzman, Phyllis Parks, Tom Simmons, Marie Taylor, Fred Holbert.

Officers absent: Janet Wright, Vera Lyman, Nelia Miller.

Members present: (About) 37 Adults, 1 junior.

Guests present: Mrs. Heffelbower, Sam Treves, Donald Shields and Jim Borovich.

The meeting was called to order by President Lyn Parks.

Minutes, as printed in the Pick & Shovel, were approved as printed. Motion by Claude Scott, second by Phyllis Parks that they be approved as printed. Motion carried.

At this point, the hospitality report was given.

Old Business:

1. Name badges would be available from Lee's Engraving, at \$3.00 a badge. Talk to Kevin Schwartzman if you are interested.
2. All American Award. A notebook was passed around for members to fill out.

New Business:

1. No new topics were brought up.
2. Miscellaneous:
  - a. Thank you from Ollie Wittman for the \$10.00 memorial.
  - b. Letter from Evy (Irl and Lois Everett).
  - c. Material from other clubs: Kansas City show coupons, Cincinnati show, Rapid City show, Cedar Valley show, packet from South Bend, host to the AFMS-MWF show.
  - d. Milton Turner Scholarship contest for juniors 16 years old and younger. Scholarship is in the amount of \$500.00 and will be awarded to a junior in the MWF this year.
  - e. Museum exhibit put on by Institute of American Art out of Santa Fe, NM.
  - f. Harold Strimple Award parentology for amateurs award.
2. Show Report:
  - a. Phyllis Parks needs people to sign up to sell and take tickets.
  - b. Roger Pabian is doing two jobs--publicity and programs.
  - c. Mike Smith needs bodies, no brains, to help with set-up on Friday.
  - d. Sign-up sheets will be put out for cases, working demos, etc. Mrs. Heffelbower (wife of David) will be calling members to see how many cases you will be bringing, etc.
  - e. Dinner will be Saturday night, buffet, \$7.15. Menu is two meats, vegetable, potato, roll, 3 salads and beverage.
  - f. Had one cancellation of a dealer due to ill health. Still are short two dealers.
  - g. Shirley Rockel will have a membership booth at the show and needs volunteers to help man the table.

## LINCOLN GEM &amp; MINERAL CLUB, INC. - GENERAL MEETING - continued

4. Mrs. Young asked that we write to Senator William Nichols, voicing our opposition to LB 862 which would allow the Governor to appoint the director of the State Historical Society.
5. Received copies of books ordered for the juniors about dinosaurs.
6. Marie Taylor introduced Dr. Sam Treves from the Geology Department at the University of Nebraska. He in turn introduced our two scholarship recipients, James Borovich and Donald Shields. Each recipient gave a brief discussion of his thesis and was then presented with a check of \$150.00 each to help further their studies. Dr. Treves announced that last year's recipients, Nene Sow and Richard Ehrman, were nearing completion of their work and would be presenting copies of their thesis to the Club.

It was moved by David Heffelbower, seconded by Claude Scott, that the meeting be adjourned. So moved.

Roger Pabian then presented another interesting program on Moctezuma Agates. This was followed by cake and coffee.

Respectfully submitted,

By Susan Taylor  
(For Vera Lyman, in her absence due  
to illness)

## AMBER - fossil resin

Amber is not a "Johnny-come-lately" gem material. Of all the cherished ancient, well-known gem materials in early times it is one of the most unique, even though it is low in hardness and in specific gravity. I am no authority on this rather mild-mannered gemstone. My interest recently increased after a casual experience provided by a child's activity.

Our 8 year-old great-grandson, Karl Hinkley, did a bit of rockhounding during a span of February warmth near his parents' week-end Platte River cabin. He gathered numerous attractive specimens, including "leaverite", and brought them to his parents and us - his great-grandparents. Though our expertise was very limited we recognized a few obvious amber characteristics in part of the "goodies". They had the clear, yellowish color, and we found that those light weight fragments would ignite in a hot flame. (some use the hot pin puncture test too). We found none with insect inclusions.

At home we searched our printed sources for amber facts, and also asked others for "second opinions". Though amber is not common to Nebraska we knew that glaciers might transport such materials from more northerly areas such as Canada and Greenland. My National Geographic 1947-1983 index volume listed Amber articles by page and date for the Dec. 1950 and the Sept. 1977 issues. I found the latter in "mint condition", and it contained a delightful story about amber, replete with beautiful color photos. My Oxford Dictionary of Quotations lists 8 pages and line numbers where quotations containing "amber" could be found in it. So, amber has been a long-time popular term. Gem cutting and polishing books give much useful information too.

Amber is a hardened fossil form of organic resin, not replaced by heavier minerals like most fossils. Its first form was as a sticky resin exuded from breaks in the surface of ancient plants, especially certain kinds of conifers. Accumulations of this were later covered by earth layers where they hardened into amber and changed somewhat in composition. Small creatures became trapped in the viscous mass, and have been preserved for millions of years, retaining their original body form; easily seen in the clear matrix of the fossil resin. Scientists are learning much about the changing inherited features.

Amber is usually yellowish brown in color, rarely blueish. It is transparent or translucent, and almost light enough to float in water. Sea waves can easily cast it up on the beaches. Extremely hard tools are not needed to cut, shape and polish this gem. Life forms inclusions enhance its value. The ancients regarded it as a mystic amulet with supernatural powers, not generally understood.

One of the great sources of amber is the eastern Baltic Sea coasts where it has long been a favorite. L.G.M.C. show visitors have admired the excellent displays featuring it and supplied by Lincoln's Latvian citizens from that Baltic Sea area.

- continued

## AMBER - fossil resin - continued

Amber may be found where ancient resin producing plants grew in abundance. The Baltic Sea area is believed to have had a period of climatic and environmental conditions that caused the trees to exude great amounts of resin, which may have been nature's healing and preventative measures. Similar trees in New Zealand are known to do this same thing. Resins from certain pine trees supply the violinists with rosin.

The ancient Greeks, Romans and others thought amber had mysterious powers, and valued it highly. They discovered that amber rubbed with wool or silk became charged so it would attract light-weight articles. The Greeks called it "electron", from which our word "electricity" is formed. Seashore deposits are now being supplanted by mining previously submerged areas. Though usually found in small pieces large lumps weighing up to 12 pounds have been found. Miners avoid damage to amber by using much hand work - not bulldozers! Modern amber substitutes, not for ornamental uses, are usually derived from coal tar. Bakelite is formed by heating, under pressure, carbolic acid (phenol) and formaldehyde.

The greatest source of amber in the Western Hemisphere is said to be in the Dominican Republic of the West Indies. It is mined from deposits in a rugged, inaccessible location; mostly since the mid-20th century. Amber has been found in New Jersey, and in South Central Arkansas which is now being studied by scientists.

The National Geographic article mentioned (in the Sept. 1977 issue) is featured with beautiful colored photomicrographs of life-form inclusions in transparent yellow-brown clear amber, with magnification-times given. The details are very life-like. Below is a brief description of some of the photo objects:

## Life Forms in Amber

An Arkansas spider, said to be smaller than a pinhead, magnified eleven times, showing all 8 legs clearly oriented. 11X

Tiny air bubbles in amber - magnified. 30X

Flower imbedded in amber from Dominican Republic. 15X

(Flower is probably related to poke weed of modern times)

Very clear leaf veins showing distinct pattern. 20X

Grasshopper, full side view, 6 legs and antennae. 7X

Housefly in full detail. 8½X

Termite, wing veins very clear, one wing loose. 9X

Most of the above, except the spider, are from Dominican Rep. A wasp-like ant inclusion from a New Jersey clay formation was found in 1966 by two "rock collectors", 4X; 100 million years old. So, amber finding is not limited to the Balkan "states".

The National Geographic article ended with a short poem, obviously translated and adapted from a huge collection of epigrams written by the famed 1st century A.D. Roman poet, Marcus Valerius Martialis. He obviously knew his amber.

A drop of amber, from the weeping plant,  
Fell unexpected, and embalm'd an ant;  
The little insect we so much condemn,  
Is, from a worthless ant, become a gem.

TEXT BY THOMAS J. O'NEILL

- Submitted by J.D. Young

## THE LANDS OF THE SOUTHWEST INDIANS--PART II

The sunniest city in the United States, Tucson was very comfortable in mid-September and would now be a most welcome change from some of Nebraska's dull, cold winter days. The city is surrounded by four mountain ranges: the Santa Catalinas to the north, the Rincons to the east, the Santa Ritas to the south, and the Tucsons to the west. A true desert town, its rainfall per year is less than the moisture lost through evaporation. It has become one of the most outstanding art colonies anywhere.

Appropriately, we visited the DeGrazia Gallery in the Sun and its Mission in the Sun in the foothills of the Santa Catalina Mountains before arriving in the city itself. It is hard to believe that anyone could capture so much expression and emotion with such simplicity of style. DeGrazia's love of the Navajo is evidenced by his choice of bright colors and his adorable black-haired, black-eyed little urchins. Probably one admires the DeGrazia style either tremendously or not at all. Both Gilbert and I are fans.

One can't visit the Southwest without visiting missions. Mission San Xavier, southwest of Tucson on the Papago Indian Reservation, was the loveliest we saw anywhere. It was founded by the Jesuit Father Kino before 1700, but the stately white structure, called "White Dove of the Desert," was built by the Franciscans in 1783-97. It is the main church and school of the Papagos and is the only Kino Mission still active in preaching to this tribe. The ornate interior is a mixture of the lovely and the garish. The face of the life-sized carved wood statue of Father Kino on his bier, with satin and lace pillow and coverlet, has been kissed almost bare of paint. As we sat quietly in the chapel, a young Indian woman in jeans went purposefully but reverently about her worship.

The Arizona-Sonora Desert Museum west of Tucson had had good advance billing from former LGMC members Gene and Jan Eno, and we were not disappointed. The collections of Arizona wild life so well arranged and displayed here are highly educational and enjoyable. The large collections of insects and snakes are especially interesting, but the many different varieties of cacti seemed most unusual. Time didn't permit visiting what would surely have been a favorite of mine: the Pima Air Museum southeast of town, with around 125 vintage aircraft depicting our nation's aviation history.

The Kitt Peak National Observatory 56 miles southwest of Tucson was the real reason for this leg of our travels. Situated on top of this sacred peak of the Papago Indians are fourteen major telescopes, each in its own observatory. Here answers are sought to questions pertaining to the ultimate nature of the universe. One of the most impressive is the Mayall 158-inch optical telescope, fourth largest in the world, housed in a building 19 stories high. An observation deck running entirely around the building furnishes spectacular views of shining white observatory domes, a huge catch basin to provide the water supply for this complex, and layer upon layer of picture-plane scenery stretching from southern Arizona to Sonora, Mexico.

Most unusual is the McMath Solar Telescope--the great triangular structure supporting an 80-inch heliostat mirror, always turning to face the sun, above a vertical tower so rigid that even in a 25-mile per hour wind the image of the sun at the end of a 780-foot optical path would be deflected no more than one sixtieth of an inch. How could you make a telescope so long? Only by embedding about half of it in the solid rock of the peak. Because temperature changes cause instability in images, the optical tube is cooled by antifreeze and water in copper tubes. Titanium dioxide is the paint which reduces the amount of coolant needed and gives the extreme whiteness to the structures on Kitt Peak.

Almost as interesting as the telescope is the story of Kitt Peak itself. Imagine, if you will, the problem of persuading the Papago Indian Tribe to give up one of its most sacred peaks, near Baboquivari Peak, which they had long considered as the "Navel of the World," to become "the realm of the long eyes." Years of patience and good public relations were required for the final agreement, reached in 1958, that has so greatly benefited both sides. The fine Astronomical Museum and Visitors Center are ably manned by members of the Papago Tribe. The Visitors Center serves as an outlet for Papago crafts, especially their beautiful and well known basketry made from materials, such as bear grass, that grow on the peak.

The Kitt Peak Observatory complex, the largest collection of astronomical observatories in the world, is strictly for research. Astronomers from all over the world make application many months in advance for time on a telescope in this astronomical mecca. Even then, astronomers usually do not have the privilege of doing their own "looking." Technicians turn the scopes exactly to the prescribed coordinates in the sky. The data usually goes to the laboratories at the University of Arizona in Tucson for analysis. One can only imagine the frustration if your appointed night finally arrives and the telescope is out of order or the sky is covered by rare clouds.

Having fallen completely in love with Arizona, New Mexico was soon to be added to our list of favorite states. We cut across to the beautiful Rio Grande Valley, past towns with improbable names (Yes, there really is a Truth or Consequences) to the largest city in New Mexico, Albuquerque.

The Rio Grande Valley cannot strictly be defined as a river valley in the sense that a river valley is typically carved out by a river. The Rio Grande River did not really erode the great depression it follows. From Colorado to Texas it flows through a series of linked troughs, long segments of the earth's crust that have subsided between mountain uplifts. To form these troughs the crust has been pulled apart while the molten material has been moved away as the surface blocks sank. The average subsidence in the valley has been measured as approximately three to four miles in relation to the surrounding country. Beneath Albuquerque the trough sank about five miles. Instead of cutting a valley, the Rio Grande has really been filling a trough. The hundreds of feet of deposited sand and gravel beneath the city provide Albuquerque with a more bountiful supply of water than any other large city in the arid Southwest.

The Indian Pueblo Cultural Center, dedicated to "advancing understanding and insuring perpetuation of Pueblo culture," would alone make a visit to Albuquerque worthwhile. The Center's main building is modeled after Pueblo Bonito in Chaco Canyon, the biggest and most advanced of the ancient Southwest cities of more than 1200 years ago. The arts and crafts galleries are outstanding. We enjoyed typical Pueblo food at the restaurant. When we return we hope to spend more time enjoying and learning from the Living Arts Program there. Albuquerque also has some of the finest bookstores we have seen, plus the fun of shopping in Old Town, the restored section settled in 1706. A tramway ride to the top of Sandia Peak, rising from 6,539 feet to 10,378 feet in a distance of 2.7 miles, is another Albuquerque experience for the future.

For art and history, Santa Fe is the queen, however. A drive past the beautiful Sangre de Cristo Mountains, topped with the first snowfall of the season, brought us to this city with the oldest continuous seat of government in the United States. Built in 1610, the Palace of the Governors, a long, low adobe structure with massive walls, is still in use. Art galleries are everywhere and well worth the time. The Cathedral of St. Francis of Assisi and the Loretto Chapel (Our Lady of Light Chapel) interested us most, however.

The Loretto Chapel, built between 1873 and 1878, is the one that houses the famous spiral stairway. As the story goes, the chapel was completed with the oversight of stairs to the choir loft and almost no space to build any. In answer to the prayers of the Sisters, an unknown carpenter came to them and built a graceful spiral stairway 22 feet high, with no center support. Assembled with wooden pegs instead of nails, it has 33 steps and makes two complete 360-degree turns. The carpenter is supposed to have disappeared even before receiving payment or the thanks of the grateful Sisters, but a current display in the Chapel indicates that this is largely legend. The beautiful sculptures of the Stations of the Cross, made in Italy, are some of the finest art work I have seen.

Fans of Willa Cather will always appreciate the magnificent Cathedral of St. Francis of Assisi in Albuquerque, built under the auspices of Archbishop Lamy, the model for Father (later Archbishop) Latour in her Death Comes for the Archbishop. Begun in 1610 to serve the Spanish people of Santa Fe, it became in 1851 the first cathedral between Durango, Mexico, and St. Louis. Archbishop Lamy is buried beneath the main altar. The most precious statue in the cathedral is La Conquistadora, or Lady of the Conquest. This lovely statue of Mary was brought to Santa Fe by Father Benavides in 1626. She was carried to the mission at what is now Juarez, Mexico, by the Spanish fleeing the Pueblo Indian rebellion in 1680. She was not returned until, "beneath her protection," the Spaniards reconquered Santa Fe in late 1693. Each year La Conquistadora is carried with great ceremony to a shrine of boughs at the encampment site where they had prayed to her for victory. This is surely the oldest Marian festival in America.

The story of Father Latour in Death Comes for the Archbishop really begins in Acoma, and a visit to the Pueblo of Acoma was one of our main reasons for being in Santa Fe. Acoma, appropriately called

"The Sky City," is about 57 miles southwest of Santa Fe. Probably built around 900 A.D., it is one of the oldest occupied villages in the United States. Although built on top a huge, high, rock mesa, with its only access a narrow path carved from solid rock, the pueblo was overrun in 1599 by the Spaniards and the Indians were shamefully treated--one of the blackest spots in New World history. Under Onate's nephew, Vincente Zaldivar, 800 Indians were killed without a single Spanish loss. The Sky City was burned and 600 captives were "tried" and pronounced "guilty." All Acoma men over 25 years of age were sentenced to 20 years in prison and the amputation of one foot. Women were sold as slaves. Only children under twelve were not punished. What all has been done in the name of religion!

Today Acoma is one of the friendliest of the pueblos, and its pottery, intricately decorated with angular and curvilinear geometric designs painstakingly painted with brushes of frayed yucca, is among the most beautiful. There is a fine Visitors Center and crafts store at the base of the mesa, but the real fun comes from visiting the potters and making your own selections first-hand.

There is a very special wonder and awe in walking among buildings that have been occupied for hundreds of years. Some of the pueblo buildings are four stories high. The doorways into the lower, older floors are smaller than the later ones, because the Acomites used to be shorter. We saw at least one old, old window of mica isinglass or perhaps selenite still in use. Log ladders to the kivas (always entered from the top) were as old as 250 years. And what rigorous living conditions! Every grain of sand for the pueblos and the mission, largest of the early Southwestern missions, had to be carried up that steep, rock-carved stairway by hand. The great log beams of the mission were hand cut and carried from sacred Mount Taylor, more than thirty miles away. Water for use on the mesa is still caught in rock catch basins, but a steep road has been built to accommodate visitors, who, fortunately, are now taken up by bus to enjoy this unforgettable experience.

(To be concluded next month.)

Florence (Boring) Lueninghoener



## JUNIORS

WE CAN HARDLY WAIT FOR THE SHOW !

It's already time for another junior page. Where did February go. The girls have helped me come up with some ideas for our article. It is their excitement about the Show - March 15 - 16 that I've decided to write. Andrea says one of her favorite things is seeing all the different kinds of rocks that people collect and bring to the show for display. Her very favorite ones to look at are the geodes, multi-colored jaspers, and tigereye. She loves the bargains she gets on the rocks she is buying for her collection. Reagan has memories of the friendly people she meets at the shows. She tells me about the man who makes wire rings and the lady that makes people and animals out of rocks. Reagan's favorite rocks are the crystals that grow in the shape of flowers: gypsum & silica roses. Both girls enjoyed having the Friends of the Museum at our Show. Each girl went to one of the educational programs and said that they had liked the one they attended. The girls and their Daddy all agreed that the rock races were great fun and wonder if they will be back in the future.

JUNIORS WE WILL SEE YOU AT THE SHOW !

We will have our regular meeting a half hour before LGMC monthly meeting ( March 22 ). Bring your favorite new specimen. I'm sure there will <sup>be</sup> several to choose from after the SHOW.

- By Janet Wright

### Program Notes

During the February Meeting two UN-L geology graduate students received scholarships from our club. Jim Borovich and Don Shields were each awarded the \$ 150. LGMC Scholarships this year to aid in research for their master's theses.

Jim is studying the evolution of fossil groups from the Upper Pennsylvanian age. He is studying rocks from around the mid-west looking for trends in evolution such as the decrease in size of crinoid plates.

Don is studying the differences in cyclothems between those found in the eastern U.S. and those that formed here in the mid-west. Cyclothems are sequences in the rock record which are cyclic in nature and are believed to mark changes in sea level.

Following the scholarship presentations Roger Pabian gave a talk on agates from Northern Mexico. Rocks from this area are made up mostly of Late Cretaceous sediments and of Tertiary volcanic rocks. The volcanic rocks are mainly andesites and rhyolites which are much thicker than basalts (when still molten) and tend to have extremely explosive eruptions. These volcanic rocks are also higher in silicate minerals and are where these agates are formed.

Agates usually form with similar structures consisting of a center made up of euhedral (well-formed) quartz crystals, surrounded by layered chalcedony. Outside of this is a membranous layer of cristobalite which underlies the weathered host rock. Many other structures may form within the agate which enhance its beauty. Inclusions of other minerals as impurities form small structures such as spherulites which form as radiating crystals within the layered chalcedony. Impurities may also form in the silicate gel as needles (such as with goethite), these may be surrounded by concentric layers of the chalcedony to form eye-like structures called "eyes". Often remnants of the original mineral remain unaltered.

Escape tubes (originally believed to be filler tubes) form as a result of the differences in specific gravity between the silicate gel (of the forming agate) and the euhedral quartz crystals. In this process some of the less dense silicate gel may be forced out of the original cavity and may form flowing bands leading to the escape hole out of the cavity. The silica which forms the agates (as quartz and chalcedony) comes from the devitrification (recrystallization of glass) of rocks known as vitrophyres (volcanic glass). Roger said that up-to-date he has cut over 20,000 agates. Thanks again, Roger, and we will look forward to hearing more as you work toward cutting your 30,000th agate.

Kevin Schwartzman

From your Librarian -

Thanks to Junior Chairman Jan Wright for the copy of Dinosaur Encyclopedia by Dr. Michael Benton. Marie Wells checked it out on the spot. Ewald Paul checked out our new book on Volcanoes, and two books were returned.

From the Exchange Bulletins -

Humor - BUNCH OF JUNK - Someone else's collection.

GREED - Someone else's large quantity of specimens.

FORESIGHT - Your large quantity of specimens.

MUSEUM PIECES - Your own collection.

-from Chippings, London, Ontario, Canada via Dinny's Doin's

SAFETY HINT:

Mohawkite can be dangerous. The metallic looking substance is arsenopyrite. Iron has been replaced by arsenic. The more gold in color the less arsenic it contains, the more silver or white color the more arsenic. Use lots of water and "DON'T LICK!"

-from G.I.Nugget, Feb. 86.

THE LAST TRICK: A magician performed brilliantly in the salon of an ocean liner. On this ship was a parrot who hated the magician. Every time the man did a trick, the parrot would scream, "Phony, phony, take him away!" In the course of the voyage, a great storm arose and the ship sank. The parrot and magician ended upon the same long plank. Two days passed, and the parrot glared at the magician and squealed, "All right, wise guy, where's the ship?"  
via G.I.Nugget

SAFETY TIP - BEWARE OF USING FLARES

A member of the Santa Clara Valley Gem & Mineral club helped to find some dropped keys. The only light available was a flare. No one knew or realized that he had been inhaling the fumes which are magnesium and are deadly. The man became unconscious a little later. Brain damage had occurred and it was so great that he never recovered. Matter of fact he did not regain consciousness. So - do be careful when using flares.

from American River Currents via Tule Smoke Signals

OLD AGE

Old age is cherished in ancient castles, antique furniture, heirloom silver, weathered covered bridges, aged Swiss cheese, vintage wine, a golden wedding ring, a redwood tree.

Old age is cherished in almost everything but me.

via Tule Smoke Signals, via Burro Express -

originally submitted by Leona Will Caldwell from an old clipping found in her 91 year old mother's belongings.

Did you know that 1/746th of a horsepower equals one watt? That's almost enough to light up a firefly!  
via American River Currents

A Few Words of Wisdom.....?

--Say no, then negotiate.

--If it weren't for the last minute, nothing would get done.

--Never invest in anything that eats.

-also from Currents

# MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES

Member of The American Federation of Mineralogical Societies

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Month



February 1986



Month



### President's Message

Now that most of us are somewhat curtailed due to the winter cold and snow, we can get out some of our summer finds and bragging rocks, and do something with them. Now is the time to work on a display for the National Show in South Bend, IN.

One of the nice parts of being president of the MWF is the great number of letters I receive from our member clubs and societies. I want to thank each and every one for including me on your mailing lists. I often hear from skeptics about our hobby losing members and going downhill. As I read all of these newsletters about the activities, accomplishments and progress made, let me tell you folks, the future looks better all the time.

This year, some junior member, 16 years or younger, of the MWF, will be the recipient of the \$500.00 Milton Turner Award for achievement in the earth sciences. If you have an outstanding junior that you think would be eligible, you must make application in the form of a letter stating: Name, Address, Birth date, and name of the MWF affiliated club to which the member belongs. Include a list of activities and accomplishments and send it by May 1, 1986 to the AFMS President Ed Wilponen, 11559 Greenfield Rd., Nine Mile Falls, N.A., 99206. Bill Parch, President MWF



### WANTED: INFORMATION REGARDING BULLETIN AWARDS

Two items were awarded at the Bulletin Editor's Breakfast in Sioux Falls in July 1985 which need to be traced. 1. The third place certificate and pin, which should have gone to Ron Smith for his winning article "Michigan's Second Mounted Mastodon" Ron is a member of the Oakland County Earth Science Club--formerly Sai Family Lapidary Club of Michigan. His article appeared in their publication, The Petoskey Stone of 3/84.

2. There is a missing 5th place certificate for Delores Bates, editor of Smoke Signals, of the Blackhawk Gem and Mineral Club of Rock Island, IL.

If anyone has these two awards, please contact Ron Smith, Delores Bates, or Lois McMahon, Midwest Federation BEAC., 2 S 621 Gray, Lombard, IL 60148.

SPECIAL NOTICE:: Do not send Rita Hagerbaumer any more bulletins. She is now the assistant to Lois McMahon. Rita cannot afford to send them on to Lois and Lois' address has been listed several times so it behooves those receiving the newsletter to get the material to the person sending out their newsletters. It would help greatly if this matter was handled properly. We would all thank you.

The Big ? ? ?

Are you, or your club, saving material for the SILENT AUCTION for the AFMS-F SHOW and Convention in South Bend, In July 17-20th??? If not, why not???

## 1986 AFMS Slide Program Competition

The 1986 AFMS Slide Program Competition rules and entry blank have been published in a recent issue of the AFMS newsletter. However, anyone wishing to get this information can do so by writing to the committee chairperson-- Margaret M. Pearson, 9034 W. Lisbon Ave. #24, Milwaukee, WI 53222. Cash prizes will be awarded for first, second and third place. Each program will be judged on its own merits and by members of both earth science and visual arts professions. Deadline for receipt of entries for the 1986 competition will be May 1, 1986. Entries must be send to the committee chairperson, Margaret Pearson.

### Anyone For Digging??

### LEARN HOW HERE

From Glen R. Hanning we have this notice of a dig in the Southwest. There will be field schools for sixth graders through adults at the Crow Canyon in Colorado. Information maybe secured by writing Crow Canyon Center for Sothwestern Archaeology, 23390 County Road K, Cortez, Co., 81321 or you can telephone 303-565-8975.

### Adena Mound Builders Uncovered

A Lexington archaeologist, Charles M. Niquette, digging in the path of a new highway, KY 645, a bypass around Inez, uncovered a camp of Adena Mound Builders. There were large storage pits, fire hearths, and stains from isolated posts. Carbon tests indicated the site dated to 325 B.C. It is the first habitation site of these people found in this area.

Niquette said artifacts from a later camp, dated at A.D. 925, were found about 40 inches above the Mound Builders camp.

This is the eighth archaeology find in Martin County, KY although the county has been heavily strip-mined for the last decade. Some members of Congress are applying pressure to the U.S. Office of Surface Mining to require coal states such as Kentucky to test for archaeological artifacts before mining begins. Asst. Lonnie Adkins, Midway, KY

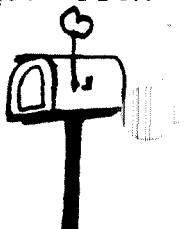
### Mid Cambrian Burgess Shale Yields Surprises

**AWESOME!**

A discovery of creatures of Mid Cambrian Burgess Shale from Mt. Burgess, British Colombia, was reported in the Nov. 16, 1985, issure of Science News. The find was made by Desmond H. Collins, curator of the Royal ONtario Museum, Toronto, Canada. Famous fossils of the Burgess Shale are the best example of life 530 million years ago, a discovery made originally by Charles Walcott. The' new discovery, found 5 kilometers south of the Walcott site, adds over 1,000 new specimens to the rare forms of life of this very early time. Included are the first modern chaetognaths (arrow worms) and ctenophores (jellyfish). A highly prized find was an "inch long cameo of a stegosaurus". An arthropod, with five pairs of claws attached to its head, was named "Santa Claws" because its finder considered its discovery a fine gift. This find, plus those in Utah by Richard A. Robison of the UK-Lawrence, KS will greatly add to our knowledge of the advanced development of life forms in that ancient age. From Mary Boland, Paleontology Chair.

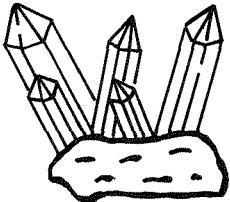
\*\*\*\*\*

The smallest good deed is better by far than the grandest good intention--Wesley Yonts.



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**1986  
NEBRASKA  
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<p><b>SAT., SEPT. 6 9:30 – 6:00</b></p> <p><b>SUN., SEPT. 7 9:30 – 5:00</b></p>		<p><b>DEALERS FROM:</b></p> <ul style="list-style-type: none"> <li>★ NEBRASKA</li> <li>★ NEW MEXICO</li> <li>★ IOWA</li> <li>★ MINNESOTA</li> <li>★ OREGON</li> <li>★ COLORADO</li> <li>★ ARIZONA</li> </ul>
	<p><b>BUFFALO COUNTY AG. BUILDING BUFFALO COUNTY FAIRGROUNDS KEARNEY, NEBR.</b></p>	
<ul style="list-style-type: none"> <li>★ CHANNEL JEWELRY &amp; SILVERSMITH</li> <li>★ STAINED GLASS</li> <li>★ SPHERE MAKING</li> <li>★ CABACHON MAKING</li> <li>★ SCRIMSHAW</li> <li>★ FACETING</li> <li>★ STONE CARVING &amp; DRILLING</li> <li>★ ROCK TUMBLING</li> <li>★ ROCK PAINTING</li> </ul>		<ul style="list-style-type: none"> <li>★ "MILLION DOLLAR" TURQUOISE CARVING</li> <li>★ PETRIFIED WOOD</li> <li>★ AGATES</li> <li>★ CRYSTALS</li> <li>★ JEWELRY</li> <li>★ SPECIAL EXHIBITS</li> <li>★ FOSSILS</li> <li>★ MINERALS</li> <li>★ INDIAN ARTIFACTS</li> <li>★ FLUORESCENT MINERAL DISPLAY</li> </ul>

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AMERICAN AND MIDWEST FEDERATION SHOW SET

**Terrific**

The Host Club for the American and Midwest Federation Show, declares that all is in readiness. Michiana Gem and Mineral Society advise that they have mailed out and passed out over 5000 pre-registration packets for the 1986 MWF-AFMS Show and Convention to be held in South Bend, IN from July 17, to 20, 1986.

Jim Russell, Chairman of the show, states that campers who need electric hookups might want to send in their camping registrations as soon as possible. There are spaces for 90 hookups.

If any club plans to go to the Show by bus, it is important that the Show Committee be so advised. It would be a good idea to register in advance and then the show tickets would be ready for you with no waiting.

The packets contain registration blanks for meals, each one of which you could /would/should be interested in: AFMS officers & directors lunch, All Exhibitors breakfast, St. Directors and Past Presidents lunch, MWF/AFMS Editors Breakfast, etc., etc.

IF YOU DO NOT HAVE A PACKET, WRITE TO 1986 SHOW, 27911 North Street., North Liberty, IN 46554 and one will be sent to you--if you include your name and address.

Once Again!

**AND**

Once Again!

Again we give instructions in ordering films for club programs. These are all 35mm slides--donated for the most part by individuals and clubs like you and yours. A "Program Summaries" book was issued in July 1985. Your Federation gives each club one issue FREE. This contains a synopsis of each program. If your club has no copy, contact your State Director who may have your copy. If not, order from the Supply Chairman, Gordon Boone, 180 Brook Lane Ave., Holland, MI 49423. Enclose \$1.00 to cover shipping costs.

When ordering programs, use an order form which is in each book and show three choices of films for the date you need the program. They are shipped 2 weeks before the date you need them--if you get your requests in when you should. The rental fee of \$5.00 must be included with your order. Please make checks out to the MWF and Do Not send Cash. SEND requests to MWF Film Library, Louise Stinnet, 29462 Aspen, Flat Rock, MI 48134 or call me at 313-782-3293.

FORM FOR APPLICATION FOR ALL AMERICAN CLUB FEDERATION AWARD

Information for this award was printed in the January Newsletter and all plus this completed form should be sent to Dr. Benjamin Moulton, RR 21, Box 103, Terre Haute, IN, 47892 And good luck to all who enter.

Name and address of Club \_\_\_\_\_

Name and address of person filling out this application and report \_\_\_\_\_

Membership \_\_\_\_\_ Average attendance at meetings \_\_\_\_\_

Name of Club bulletin \_\_\_\_\_

Date organized \_\_\_\_\_ Month of elections \_\_\_\_\_

How often does Club meet? \_\_\_\_\_

How many times won All American Club plaque? \_\_\_\_\_ Won on National level? \_\_\_\_\_

LEGISLATION AND ENVIRONMENT--from John Boland, Chair

Chromium Hazardous--EPA reportedly will move ahead to issue a notice of intent that chromium is a hazardous air pollutant. Efforts of the EPA Air Office have been at a standstill because Office of Management and Budget refused to approve a handful of regulatory packages which covered nitrogen oxide, monoxide, arsenic and chromium emissions due to a dispute over cost vs benefit in cancer effects in future years.

Some lapidary enthusiasts may still be using chrome oxide to polish jade instead of Linde A. Particles become airborne easily off of buffing wheels and can be inhaled if a mask is not worn. Many other dusts from dry sanding, or dampened powders used on buffing wheels can be accumulated in the lungs and cause emphysema and kidney or liver disorders.

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An Area of Interest As You Head to South Bend

The University of Wisconsin-Milwaukee has become the trustee of a massive collection of maps, globes, and other geographical material. The largest research collection of the American Geographical Society is now in the east wing of the third floor of the University of Wisconsin-Milwaukee. It is in the Golda Meir Library. The UW-M won out over 25 major institutions interested in obtaining the collection. The collection is rivaled only by the Royal Geographical Society in London. Of the three major sections which make up the collection, the map library is the most unique. Consisting of over 350,000 maps it is well balanced and reflects the development of cartography in every country and region.

REMEMBER CLUBS, YOU ARE ALLOWED TO MAKE COPIES OF THE MWF NEWSLETTER FOR MEMBERS.

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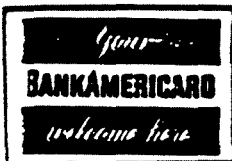
MEXICAN MINERALS - SLABS - TUMBLER STONES

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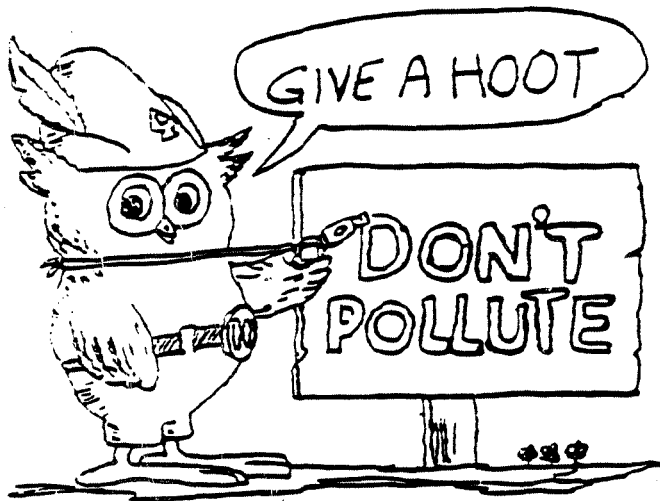
Adult membership fee \$5.00 (age 16 and over)

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.

SEE YOU ALL AT THE SHOW!!!



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

HELP ELIMINATE LITTER PLEASE!

MAIL ALL EXCHANGE BULLETINS TO:

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



Edward Ridge  
2507 'A' St.  
Lincoln, NE 68502