


**CEDAR VALLEY
GEMS
ROCKS & MINERALS SOCIETY**



MAY 1978

CEDAR RAPIDS, IOWA



CEDAR VALLEY ROCKS AND MINERALS SOCIETY, INC.

CEDAR RAPIDS, IOWA

This corporation is organized for the purpose of studying the earth sciences of mineralogy, geology, paleontology, and the arts of lapidary. We were organized on June 12, 1951, incorporated on June 21, 1956, as a non-profit organization.

OFFICERS

President	Larry DeSotel	247 Sussex Drive N.E.	Cedar Rapids, Ia.	377-1641
Vice-Pres.	Alice Brown	360 Tonga Dr.	Hiawatha, Ia.	393-7193
Secretary	Alberta Cray	1125 J. Ave. N.W.	Cedar Rapids, Ia.	362-5530
Treasurer	Marian Peters	1475 24th St.	Marion, Ia.	377-2839
Liaison	Frances Bates	2739 2nd Ave. S.E.	Cedar Rapids, Ia.	366-6012
Editor	Leslie Blin	505 5th Ave.	Marion, Ia.	377-3339
Co-Editor	Helen Troxel	1138 Prairie Dr. N.E.	Cedar Rapids, Ia.	365-3451

BOARD MEMBERS

Term ends:				
Dec. 1978	Bill Myers	335 27th Ave. S.W.	Cedar Rapids, Ia.	362-7080
Dec. 1979	Don Bates	2739 2nd Ave. S.E.	Cedar Rapids, Ia.	366-6012
Dec. 1980	Skinny Lutz	Wiley Blvd & Rogers Rd. NW	Cedar Rapids, Ia.	396-6194
Past Pres.	Jim Dickens	531 30 th St. S.E.	Cedar Rapids, Ia.	363-7693

COMMITTEE CHAIRPERSONS

Membership	Helen Shedenhelm	2111 Chandler St. S.W.	Cedar Rapids, Ia.	365-3089
Hospitality	Rosie Richardson	Rt. 1,	Ely, Ia.	848-4040
	Frances Bates	2739 2nd Ave. S.E.	Cedar Rapids, Ia.	366-6012
Telephone & Sun shine	Ora Mae Cozart	2117 High Dr. S.E.	Cedar Rapids, Ia.	362-3471
Display	Don Bates	2739 2nd Ave. S.E.	Cedar Rapids, Ia.	366-6012
Supply	Pat Blin	505 5th Ave.	Marion, Ia.	377-3339
Librarian	Jeff Nekola	800 25th St. N.E.	Cedar Rapids, Ia.	363-9792
Historian	LaVonne Grove	700 35th St. #309	Marion, Ia.	377-3614
Field Trips	Rick Austin	2233½ 3rd Ave.	Marion, Ia.	377-4741
Resource Materials	Helen Troxel and Leslie Blin			
Pebble Pups	John and Helen Troxel, and Don and Frances Bates			

CLUB MEETINGS: Third Wednesday of each month except June, July, August, and December 7:30 P.M., R.E.C. Building in Marion -- 999 35th St.

BOARD MEETINGS: Fourth Wednesday of each month except June, July, and August -- 7:30P.M.

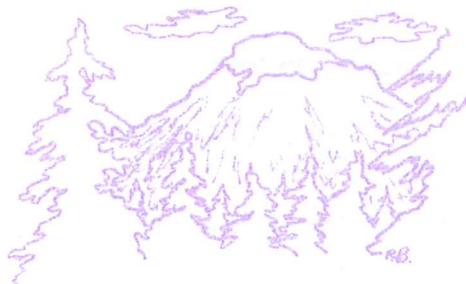
CLUB DUES: Due and payable January 1st of each year. Deadline is March 1st.
Regular membership -- \$6.00 per adult couple; \$4.00 per single adult; \$6.00 per family membership.
Junior or Pebble Pup Membership -- \$3.00 (A member under 18 years of age.
Associate Membership -- \$4.00 per family (associate members will receive the club bulletins but may not vote or hold office.)
 Persons joining during the year will pay dues to the nearest quarter.

Members are requested to contribute articles to be published in the bulletin. Articles should be given to the Editor by the FIRST of the month to be in that month's bulletin.

Articles may be reprinted if credit is given the author and the bulletin.

CEDAR VALLEY GEMS
CEDAR VALLEY ROCKS AND MINERALS SOCIETY
CEDAR RAPIDS, IOWA

MAY 1978
VOL. 5, ISSUE 9
PAGE 1



MAY MEETING

WED. MAY 17, 7:30 pm

REC BLDG. in Marion

PROGRAM--"Aspen Trails" by Bob Jensen

DISPLAY--Some Colorado specimens would be appropriate or anything you'd like to display.

PROGRAM-- Bob Jensen, a member of Old Capitol Geological Club in Iowa City will give a slide program on Colorado and the Rocky Mts. I've been told that this is an excellent program. DON'T MISS IT!!!!!!

CLUB CALENDAR OF EVENTS

FRIDAY, MAY 12...4:00 pm..PEBBLE PUPS MEETING at Troxels home, 525 ValleyBrook Dr. S.E. Have your reports ready. They will discuss how to prepare for the field trip on May 20th.

SATURDAY, MAY 20...PEBBLE PUPS FIELD TRIP TO VINTON QUARRY. Will leave Troxels home at 9:00 AM Sat. morning. You will need a sack lunch, permit slip and all safety equipment. Club members are welcome to go along, but you must have safety equipment.

SUNDAY, MAY 21...1:30 pm...SHOW MEETING at the Marion Community Center, 7th ST. & 10th Ave. Room 3. All club members should try to attend as THE BIG SHOW will be only 11 weeks away by then!!!



WEDNESDAY, MAY 24...BOARD MEETING at the home of Jim & Mary Dickens. Board members please contact Pres. DeSotel if you cannot attend. ALL CLUB MEMBERS WELCOME. 7:30 pm.

SUNDAY, JUNE 4...FIELD TRIP will leave the REC building in Marion at 12:00 noon. Field Trip chairman Rick Austin plans to follow Trip III in the J.N. Rose book. Silurian and Devonian. This is a close to home trip as it covers Curtis bridge Quarry (Coralville)(corals, trilobites), Mahaffey Bridge roadcut (Lake McBride area), Hunt quarry (Cedar County) (Tipton), possible to find crinoids, coral, there, then to Rochester & Atalissa area which has brachiopods, bryozoans & coral. Come to the May meeting for more details. I've heard rumors of BIG agates down in that area, maybe Rick knows where?????



WEDNESDAY, JUNE 21...6:30 pm..Summer potluck in Thomas Park in Marion, PLUS a Show meeting.

WEDNESDAY, JULY 19...6:30 pm..Summer Potluck picnic in Thomas Park in Marion, PLUS A SHOW MEETING.

SUNDAY AFTERNOON, AUGUST 6...FINAL SHOW MEETING.....Be there!!!
MARK THESE DATES ON YOUR CALENDAR NOW SO YOU WON'T MISS ANYTHING!!

REMEMBER.....August 10-11-12-12 is the Midwest Federation Show & Convention!

HERE!

SECRETARY'S REPORT - APRIL GENERAL MEETING

Cedar Valley Rocks and Mineral Society met at the R.E.C. Building, April 20, 1978, 7:30 P.M.

The meeting was called to order by President Larry DeSotel.

Jim Dockal, our speaker for the evening, and several other guests were introduced.

The secretary's report was approved as printed. The Treasurer's report was read and placed on file.

Larry read correspondence from Wilbur and Darlene Capbell regarding gem and mineral displays for the State Fair, August 17 - 27, 1978. Also a letter concerning an Arts Festival, sponsored by the Ambroz Advisory Board, April 29 and 30, 1978. A flyer advertising a swap at Greenfelter Park, given by the Earth Science Club of Missouri, May 20 and 21, 1978, was shared.

Helen Troxel reported the Pebble Pups will have a field trip to Pint's Quarry at Raymond, Iowa, and to the Blackhawk Gem and Mineral Show at Waterloo, **Sunday**, April 23.

Helen Shedenhelm announced she has the membership directories. Each family is entitled to one copy - pick them up from her.

Larry reported his company had a number of slightly used hard hats available for \$2.50 each. He picked up ten of them. Members interested in securing one should call Larry.

Marian Peters announced she has the membership cards ready and asked members to pick them up.

Jeff Nekola asked anyone who donates a magazine to the library, to please tell him if articles have been cut out.

Field trip Chairman Rick Austin announced we would have a field trip, May 7th. We will follow the second field trip in Jean Rose's, "Fossils and Rocks of Eastern Iowa."

Truman reported that he and Jim Dickens had attended the Eastern Iowa Science Fair, held at Washington High School. Truman and Jim judged the Earth Science displays. Three gifts were awarded, a \$15., \$10., and \$5., in the club's name.

Norman Brown, MWF show chairman, announced our next show meeting would be held at the Marion Community Center, Sunday, May 21, 1:30. There was a discussion as to when other summer show meetings would be held. It was decided to have a meeting following the June and July potlucks, at Thomas Park. (3rd Wednesday)
The final meeting will be Sunday afternoon, August 6. At this time the badges, and host ribbons will be issued. Bring all of your last minute questions.

Secretary's Report continued from previous page

Norman asked each of us to plan to attend this last meeting prior to the show.

Larry said he and Norman had met with the fair board, and have found that we will get the extra building in our contract.

Larry inquired what we thought about a show for 1979. He said the board would discuss it, and, he suggested we all give it some thought.

Larry reminded us of the Waterloo show to be this weekend - April 22 and 23. Said he would take a display and urged each of us to take one also.

Larry read a list of items that Truman has for sale at this time.

Leslie Blin reminded us of the wealth of material in the Resource File - literature on nearly every state. Suggested that if we are planning our vacaton, to check it over.

Also, there are still copies of the Resurce Books at \$1.50 each.

There was a discussion about the paint at Hawkeye Downs. Truman suggested that we approach the manager, and offer an advance payment, if they would use it to paint, and otherwise clean up the buildings.

The business portion of the meeting closed.

Alice Brown, program chairman, introduced our speaker, Jim Dockal. Jim chose for his topic, "The Historical Perspective of the Lead Mines in Dubuque, Iowa.

A very interesting program, given by a very personable young man.

SECRETARY'S REPORT -- BOARD MEETING

The board met at the home of Bill and Gert Myers, April 26, 1978, at 7:30 P.M.

The meeting was called to order by Larry DeSotel, President.

Alice reported Norman had phoned the Hollands to reserve the two cases which they have for sale.

The treasurer read several bills. A motion was made that the bills be paid. It was seconded and carried.

Marian was instructed to forward the check for the American Federation Scholarship Fund.

Alberta read a letter from Bill and Betty Beranek, which had been received by Jim and Mary Dickens.

Helen Troxel reported on the Pebble Pups' field trip to the Waterloo area.

Board Minutes continued from previous page

Bill Myers reported he had ordered the plastic for the tables at \$5.95 a roll.

There was a discussion of reimbursing, or at least defraying the expenses of those members who have traveled considerable distances for the exclusive purpose of advertising the Midwest show. No decision was made.

It was suggested that we increase the amount paid to speakers at our meetings. The board recommends that the scholarship recipient's gratuity be left at \$10., but, that other speakers be increased to \$15.

Larry exhibited the hard hats which he had acquired for \$2.50 each, for ten hats. The hats can be secured from Larry,

Larry spoke of the rock and gem show which will be held at the State Fair, in DesMoines, August 17 - 27, 1978.

There was a discussion about the exchange bulletins - should the list be cut in view of the cost? How many clubs should we exchange with? No decision was made.

The club insurance was discussed. It was thought that perhaps we should have a form spelling out the responsibilities of each club member when visiting a quarry.

Larry said he would ask Don Bates, Rick Austin (field trip chairman), and Alice Brown, vice president, to meet and set up such a form. The group favored changing back to the Moore Agency when the insurance comes due again.

The reworking of the by-laws were discussed. It was felt that now that Groves have returned from the south, LaVonne might work on the by-laws.

Larry asked our thinking on a 1979 show. This was discussed at length. While no vote was taken, it seemed, to this writer, at least, that most of those present, favored having a show in the spring of 1979.

Jim Dickens made a motion that the meeting be adjourned. It was seconded and carried.

MY JOB

It's not my job to run the train.
The whistle I can't blow.
It's not my place to say how far that I'm allowed to go.
I'm not allowed to blow off steam.
Or even ring the bell.
But let the damn thing jump the track.
Then see who catches hell. Darrell from The Illowa News Gringer

Respectfully submitted
Alberta Cray, Secretary

SHOW FLASHES!!!!

August 10-11-12-13, 1978

We have been simply overwhelmed with the response we have had for those wanting to exhibit and we surely are grateful.

Our dealer space has been filled for some time and we are still getting requests for space.

Our program schedule has been filled. Please refer to your April newsletter

Rick Austin has been named properties chairman. Should you need some special prop or ?? perhaps he can help. He has been given a pretty good list of things for the competitive area and people.

If you would like a job, there are still committees needing help. We are sure there will be jobs popping up we hadn't even thought about. Get your name on the list and be available. You'll have fun and a great feeling of satisfaction that you were able to do your bit in making this a successful show. DON'T MAKE GEORGE DO IT ALL !!!!!!!

Please note Show meeting dates on Page 1.

Latest exhibits confirmed at Bryce and Robert Barker from Battle Creek, Michigan and Dixon, Illinois respectively. Bryce will demonstrate his own technique of painting a picture from crushed rock and he also does swimshaw. Robert will show you his conception of silver-smithing and mount polished stones for your pleasure. Bryce will also give a lecture on Saturday at 11:00 AM on crushed rock painting.

Earl Woods of Dayton, Ohio, with the help of a few friends, will man a a king-size booth to demonstrate and teach cutting and polishing and faceting techniques. If you wish to learn how to cut a cab or facet a stone or just discuss various aspects; or compare your method with another individual's. Earl is the man to see. Don't miss this opportunity!!

We are starting to get applications for the Hall of States. Don't let your state be unrepresented. Norman Brown, Show Chairman

Latest exhibitors to the list are:

Mr. & Mrs. Amel Priest - Peru, Iowa ---fossils ---crinoids

Brett Allan Masek---Oelwein, Iowa --Minerals, fossils & agates

Mrs. R. H. Hopwood --Wauwatosa, Wisconsin --Minerals

Dean & Marie Andersen --Iowa City, Iowa ---Minerals

Wm. H. Owens -- Tullahoma, Tenn. ---Tennessee Chalcedony

*Roger G. Dabler ---Cedar Rapids, Iowa ----Fossils

Earl Woods ----Dayton, Ohio ----Working & teaching demonstration

Vone & Len Luthi -----Topeka, Kansas ---rock sculpture--fossil creations

*Gene Burry ---Vinton, Iowa ----Eye agates & other Lake Superiors

Leonard L. Johnson --Des Moines, Iowa ----Jewelry

*our club members

C.V.R. & M. S. HISTORY.....1976 in review (continued from March issue)

The twelfth annual Show was held April 10 & 11, at Hawkeye Downs, in Cedar Rapids. The theme was "Our Mineral Heritage" in keeping with the National Bicentennial year. Two thousand and eighty-eight tickets were sold and many youth groups were given free passes. Truman Ramsell was Show Coordinator, with Co-chairmen Alice Brown and Alberta Cray. Committee Chairmen were: Dealers- Larry DeSotel; Special Exhibits - Fran Betterton; TV/Radio Publicity - Wally Peters; Pebble Pit - Robert Blin; Swap Area - Cliff Steiner; Competitive Exhibits - Dorothy and Chuck Shoemaker; Black Light - Jim Dickens; Club Booth - Ruth Slager; Signs - Blin Family; Floor - Bill Myers; Programs - Don and Marie Simmons; Local Newspapers - Alberta Cray; Hostesses - Gert Myers; Tickets - Wilma Ramsell; Publicity-Midwest Federation Clubs - Gladys Jensen; MWF Booth- Dean Anderson, Assistant State Director. The Show theme was suggested by LaVonne Grove. A banner for the club booth was designed by LaVonne Grove and Helan Shedenhelm. The Show Flyers were designed by Patty Blin.

Babe Barnett and Rodney Douglas appeared on WMT/TV talk show "The Last Word". Cliff Steiner and Rodney Douglas were on the Dr. Max Show, to publicize the Show. Truman Ramsell was interviewed on WMT Radio Shows "Lets Talk It Over" and "Outdoor Iowa", to publicize the Show.

Special Exhibits were: Intarsias of eight U.S. Presidents and the American Eagle, by Joe Phetteplace; Animated Flintstone Village by Arthur Millard; Rock Pictures and trees exhibited and demonstrated by Bev Carroll; Sand Bottle Art demonstrated by the Elmo Nolans; Glass Sculpture by Don Omberg; An animated water wheel and mill by Clarence Frandsen; Wire Craft by Ed McNamara; Spheres by Frank Masick and John Nickels.

Club members demonstrated: Rock pictures by Rosie Richardson; Rock Carving by Wally Peters; Engraving on glass by Mary Dickens; Jewelry by Frank Ehrenberger; Painting on rocks by Patty Blin; Rock Novelties by the Oliphants.

Programs were: Interpreting fossils by Don Good, Aledo, Ill.; Homemade Lapidary Equipment by Robert Brown of Conesville, Ia.; "This Land", a film produced by Shell Oil; "Along the North Shore of Lake Superior" a slide program by Don Simmons of C.R.; and "Iowa's Cold Water Cave" by Assistant State Geologist Donald Kock of Iowa City.

The Midwest Federation held their Spring Council meeting, in Cedar Rapids, in conjunction with the Show.

Their Competitive Exhibits for the first time at our Show.

Committee Chairmen were appointed for the 1978 MWF Show that will be hosted by C.V.R. & M. S. Norman Brown is Show Chairman. Plans got under way (a complete report of the Show added at a later date.)

The Cedar Valley Scholarship Award was given to Jerry McGinnis, SUI Geology student, to be used for his summer field trip course, necessary for graduation.

The Club gave "Earth Science" magazine subscriptions to eight high schools and two public libraries in Cedar Rapids and Marion.

The Annual Swap was held in American Legion Park, in Marion, on Sept. 25 & 26. Mel Abernathy was Chairman of the event. One hundred rock-hounds registered from fifteen Iowa clubs and from California, Illinois,

C.V.R. & M.S. HISTORY(continued)

Minnesota and South Dakota. IT was a cold windy week end but rockhounds are a hardy group. The Blin family kept a camp fire going near the hospitality "tent". Food was furnished by club members. Silent auctions were held and a live auction was held on Sunday afternoon. Larry DeSotel conducted the auction of materials from the late Hugh Ricks collection. Mr. Rick was a former club member. A Potluck supper was held out of doors but we retired to the Marion Community Center for the evening program on Saturday. Don Good, of Aledo, Ill., gave a slide program on a ten day field trip that he led in several western states. Participants in the field trip were high school students.

Cedar Valley gave fifteen dollars to the Eastern Iowa Science Fair, to be awarded as a prize.

By LaVonne Grove, Historian

OF SAND AND SANDSTONES---III "Bedding"

Interpreted by Helen Troxel, From Sand and Sandstone by Pettijohn, Potter and Siever.

"Bedding" is defined as "that thickness of sediment which appears to have been deposited under essentially constant physical conditions." The term, "bedding", is applied to rocks resulting from consolidated sediments which exhibit planes of separation, i.e. between beds, as an example.

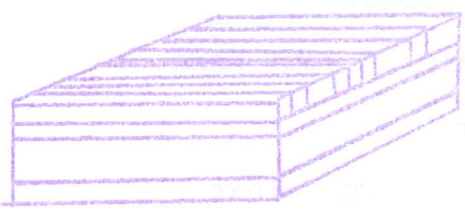
There are four aspects of bedding which are visible in sandstone: the External form of bedding, the Internal form of bedding, bedding Irregularities and Markings, and Deformed beds.

BEDDING, EXTERNAL FORM---Bedding may be measured as to thickness, continuity or discontinuity, and the presence or absence of lateral uniformity.

BEDDING, INTERNAL STRUCTURE---

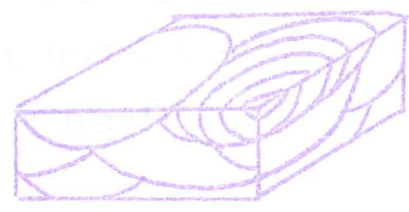
Laminated bedding, horizontal--as in flagstone
Graded bedding--defined as upward decline in grain size within a bed. (the largest grains are on the bottom.) In a general way, the coarser the material, the thicker the graded unit which will be found.
"Cross bedding" or "Current bedding." 1. Tabular-Planar 2. Trough-Festoon

Tabular-Planar Cross bedding



Horizontal traces of foreset surfaces--straight, or nearly so.

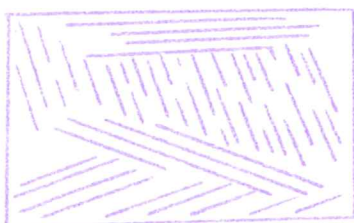
Trough-Festoon Cross bedding



Horizontal traces of foreset surfaces--sharply curved.

OF SAND AND SANDSTONE(continued)

Cross bedding sets may be superimposed upon one another.



Cross bedding is the product of down-current migration of sand waves of some kind. Large scale cross bedding is the product of the migration of sand dunes.

BEDDING PLANE MARKINGS, IRREGULARITIES.---These may occur on the base of the bed as scour marks and tool marks; within the beds as parting planes or organic markings; or on top of the bed as ripple marks, rill marks, rain prints, mud cracks or casts, salt crystals casts, and organic marks.

Ripple marks form whenever sand is in motion. But the ripple structure seen in cross section may be deformed.

One description of ripple marks;



Straight



Sinuuous



Linguoid

Symetrical

Asymetrical

BEDDING DEFORMED

- vertical transfer of material caused by unstable density stratification. May be slow or rapid.
- instability because of oversteeped depositional slopes.
- pseudoliquification of sand--such as "quicksand" which is capable of injection as sills, dikes, or diapirs.
- convolute bedding=slip bedding-intrastratal contortions.

Speaking of sand, Helen included this poem with her articles of sand;

To see the world in a grain of sand
 And a Heaven in a wild flower;
 Hold infinity in the palm of your hand
 And eternity in an hour.

---Wm. Blake

A grandparent is so simple that even a child can operate it.

If you raise Cain tonight you probably won't be Abel to do ~~ADAM~~ thing tomorrow!!!
 From "The Pick and Chisel"

IOWA STATE FAIR---August 17-27,1978

President DeSotel recieved a letter from Wilbur & Darlene Campbell of Des Moines, members of our club, stating that they will be in charge of the Rock & Mineral Division at the State Fair this summer. The displays will be in a large room, one you can drive right up to the door and unload.

You must get entry blanks from the State Fair and enter before July 31st. They gave a list of 14 divisions to enter. There is a Junior Div. and an Adult Division, Junior for ages thro 16. You can just enter a display or can enter Competitive displays. Either way you need to get a form from: Iowa State Fair, Des Moines, Iowa 50319. They must be returned before July 31st. President DeSotel has the list of divisions if you are interested. Call him. 377-1641

TO: ALL MXMBXRS OF THX CXDAR VALLXY ROCK & MINXRAL SOCIXTY

Xvxn though my typxwritxr is an old modxl, it works quitx wll, xxcxpt for onx kxy. I havx wishxd many timxs that it workxd prfxctly. It is brux that thxrx arx forty-onx kxys that function wll xnough, but just onx kxy makxs thx diffxrxncx. Thxrx arx timxs whxn an organization is somxwhat likx my typxwritxr--not all pxoplx arx working proprly. You may say to yoursxlf, "Wll, I won't makx or brxak thx Rock Club". But it doxs makx a diffxrxncx bxcaxs any Rock Club to bx xfxctivx nxxds thx activx participation of xvxy mxmbr. So thx nxxt timx you think your xfforts arx not nxxdxd, just rxmmbxr my typxwritxr and say to yoursxlf, I am a kxy pxrson in this Rock Club, and I am nxxdxd vxry much.

RXXMXXBR - - WX NXXD YOU!!!!!!!

.....YOU CAN MAKX A DIFFXRXNCX.

THANKS TO BXTTY DXSOTXL FOR THIS ARTICLX.

SEED SPROUTS



If you don't have room for a garden try raising sprouts. They're really delicious.

1. Get some seeds from a health food store. Don't use garden seeds that may be chemically treated.
2. Use a mason jar, a wide mouth is best. Cut a screen or cheesecloth to use instead of a flat in the jar ring.
3. Place seed in jar, add water to cover. (2 tablespoon of alfalfa seed, or 1/2 cup of mung beans) Allow to soak overnite.
4. Drain the water off through the screened top and rinse and drain.
5. Place in a dark place(kitchen cabinet O.K. but don't forget about it)
6. Rinse and drain twice a day. Morning and evening O.K.
7. When sprouts are formed rinse well. Taste to see what stage you like them best. Store in refrigerator in the same jar but place the flat back in the jar ring. Rinse occasionally. Will keep 2 weeks or longer in ref. We like them with the leaves just starting. We like alfalfa seed sprouts for salad, good on sandwiches or just plain. Mung bean sprouts are good for snacks, salads or cooked dishes. We like them in Chow Mein. There are many seeds to sprout, we have a sprouter and the instruction book lists 29 seeds to sprout but alfalfa and mung beans are our favorites.

L. Blin

ROCKS, MINERALS & FOSSILS OF IOWA
CONTINUED from the March newsletter

TAKEN FROM AN ARTICLE IN IOWA CONSERVATIONIST, APRIL 1977, By LEE OLSON

Around the Dubuque area, galena (lead) may be found. For specific area ask some of the local residents.

GEODES

The State Rock of Iowa, the Geode, is probably the most sought after mineral. Whether you are an amateur collector or professional, the geode is on every person's list of rock and minerals to find. The

The largest concentrations of geodes is located in southeast Iowa. However, excellent geodes have been found in central Iowa in the Eldora, Union, Hampton and Hubbard areas. Usually limestone quarries and road cuts offer the best hunting in this area. The gravels of the Iowa River also offer good hunting.

The best known geode formation in the United State is the Warsaw formation and though the city for which the formation was named is on the Illinois side of the Mississippi River, so many of these geodes have been found in Iowa that they are quite commonly referred to as "Keokuk Geodes."

Virtually every stream in southern Iowa from Ottumwa to Keokuk, and the Des Moines River into which they flow, will yeild a harvest of geodes. Geodes are sometimes in banks and cliffs, sometimes on gravel bars, and often in the streams. Commercial gravel operations also have their share of geodes. Road cuts and construction excavations sometimes yeild a new supply. The best time to look is after high water has receded in the spring.

The geodes which collectors prize are those with inclusions of something other than the usual clear to white quartz crystals. Of course, any interior showing crystals of unusual beauty is a welcome addition to a collection, but the following are some of the inclusions which make some geodes even more highly prized: dolomite, goethite, marcasite, pyrite, sphalerite, ankerite, aragonite, chalcedony, kaolin, limonite, calcite and millerite. The rarest is millerite, others of value are those geodes containing pink calcite and amethyst.

The variation in the sizes of geodes is tremendous, many of these round "rocks" being smaller than a golf ball and some of them larger than a beach ball. The baseball to softball size seem to be the most common.

Some collectors prefer to saw their geodes, however, this writer fers to break them open carefully so the larger part has a litter cave and the other portion becomes merely a lid to close the cave. They are easily broken with a hammer and chisel, that is, if they are good ones. The solid quartz variety is very difficult to open. You soon learn by the heft of the geode whether or not it is likely to be hollow.

Nearly all geode collecting areas are located on private property, and the collector must obtain permission from the owner for access to and from the "diggings.".....continued next page.....

ROCKS, MINERALS AND FOSSILS OF IOWA- continued

Looking for rocks and minerals, as well as fossils, can be a rewarding and enjoyable experience for all. However, some adventures have ended up being disastrous. Collecting can be dangerous for those not prepared.

If you follow these few suggestions, it may later save you, as a collector, an injury or possible legal action. 1. In rocky areas, limestone outcroppings, and abandoned quarries, beware of possible rattlesnakes. Use a stick or pole to probe around with. Rock areas are natural habitats for rattlesnakes. 2. Wear clothing that fits the weather and terrain you're going to be in. 3. Wearing a hard hat can prevent blows on the head from loose shale or stones falling from above. 4. Limestone quarries are potentially very hazardous. Construction and blasting may be going on and blasting caps may be left in the area. Also, many quarries and abandoned strip mining areas may have filled with water and drownings have occurred. 5. Sunburn, bites of insects and poison ivy also take their turns at the collector. Be prepared and recognize these hazards. 6. Carry a first aid kit. Cuts, smashed fingers and falls are part of the fun. 7. Get permission to enter and hunt an area. 8. Meandered streams, roads and road cuts are the only areas that I know of where you can hunt without permission. If in doubt inquire. 9. It is against the law to collect rocks and minerals from any State Park or Preserve. 10. Be sure you have your equipment along. Include a hand lens or magnifying glass and preferably a mineral hammer, if not, a good hammer and chisel. A good rock and mineral book will also be of advantage to you.

Iowa's greatest natural resource is her soil, but with a little perseverance one can find many unusual rocks and minerals in our state. GOOD HUNTING!!!!!!

AFMS NEWSLETTER NEWS

A new find of old fossils in Nebraska is of 15 or more rhinoceros skeletons, and bones of the two-toed horse. Preserved in volcanic ash, the specimens are about 10 million years old. May 1978

Look for the beautiful Russian hydro-thermal, man-grown quartz to hit the market in the unrivalled red-violet Ural amethyst color. This is sure to be one of the most attractive synthetics ever. May 1978

"Don't wear gold rings when working with chlorine bleach." Jewelers have discovered that household bleach is the cause of broken prongs and hairline cracks in gold jewelry. Even daily swims in a pool will weaken gold rings or chains. The chlorine attacks the alloys in the gold. Feb. 1978

The National Safety Council warns that foam rubber overheats and ignites easily. That near a source of artificial heat, a foam rubber object may spontaneously ignite. Lapidaries take note. Feb. 1978

A brown diamond cut to resemble a peanut was turned down by President Carter, but will be raffled off for the Multiple Sclerosis Society in Nevada. Feb. 1978

CALENDAR OF EVENTS

- MAY 27-29...Wheaton, Ill. (Chicagoland Show)
- " 20-21...Alantic ,Iowa (Swap) Cass County Fairgrounds
- " 20...12:30 PM..Auction Sale, St. Charles, Iowa(Alva Millers rocks, equipment, fossils and artifacts)
- June 3-4...Buffalo, Iowa(Swap)Illowa Gem & Min. Soc.
- " 9-11...Colorado Springs, Colo.(Rocky Mt. Fed. Show)
- " 10-11...Iowa City, Iowa (Mini-Show & Swap) Old Capitol Geo. Club Izaak Walton Clubhouse & Grounds, Highway 218 South Camping, silent auctions, pebble pit, dealers, swappers 10-5pm Sat, 10-4 Sun.50% admission(over 12)potluck Sat. demonstrations, lunch counter,exhibits, entertainment Sat.nite
- June 10- 11..Oregon, ILL. (Show & Swap)
- " 24-25..Ottumwa, Iowa(Swap) Shelter Pavilion
- " 24-25..Harrison, Michigan(Educational Seminar)
- JULY 8-9...Dubuque, Iowa(Show)
- " 7-9...Newcastle, Pa.(Eastern Fed. Show)
- " 14-16...Aledo, Ill.(All Illinois Rock Roundup)Buy, Sell, Swap
- " 14-16...Monroe, Wa.(Northwest Fed. Show)
- " 27-30...Pleasanton, California(National Show)
- August 10-11-12-13...Cedar Rapids, Iowa(Midwest Fed. Show)
- " 26-27...Grandview, Iowa(Swap)(All Iowa Roundup)
- " 31-Sept. 4...Mt. Pleasant, Iowa (Show) Heritage Museum

Sept. 16-17...Charles City, Iowa (Show)

CHURCH SERVICES AT MIDWEST SHOW..from John& Helen Troxel, Program Ch.

Artist Bob Naujoks will participate in a non-demoninational church service on Sunday morning, August 13th, 1978, at 8:30 am. He will present an artistic interpretation of "In the Beginning.....", the original creation story and the challenge of what has happened to us since then. Bob relies upon visual imagery to convey his message for he will paint a "mural" accompanied by appropriate musical background. There is no speaking part after the introduction to bread the impact of the art, color, theme and music. Mr. Naujoks describes his work in the following manner; "Its a visual presentation using symbols to stimulate the viewers to think visually. I'm interested in using visual means to communicate, and seeing the work done in front of you is part of that communication. The final product often is not a finished work, but layers of visual thacuh patterns. The medium and the message are almost one and the same."

Persons of all ages will enjoy the presentation. Mr. Naujoks is currently the art director of NMT-TV, Cedar Rapids. He is working on a Masters Degree in Design at the University of Iowa.

PEBBLE PIT REPORT

Thanks to the Baxa family and Don & Neva Shaw for rocks. We will need many, many more rocks for the pebble pit . If you have some to donate but will store them till the show let me know about how many you have. And if you don't want to store them bring them over to my garage,
 Robert Blin. Pebble Pit Ch. 377-3339

"Today's mighty oak is just yesterday's little nut that held it's own ground."
 Via The Geede, from Rock Lore

Midwest Federations NEWSLETTER



Published monthly except July and August as a service to members clubs.
All news, articles, subscription orders and requests for information concerning publication
should be sent to the Editor, Haydon Peterson, Parrot Printing, 2125 Forest Ave., Des Moines, Iowa 50311

May 1978 - Issue No. 185

More new programs available to clubs

More good news about program additions to the Midwest Film Library from Donald Stinnett, Film Library Chairman.

The two prize-winning programs in the American Federation contest last year are now available to Midwest clubs.

"Making Constructed Silver Jewelry" by Marge Collins of Plymouth, Mich. She is a teacher of this subject and the program slides show four projects her students are taught. This is an exceptionally interesting and informative program for beginning silversmith or study groups.

"More Rare Than Diamonds - History of a Fossil Location" is by the Oregon Agate and Mineral Society of Portland, Oregon. It tells a very interesting story by a paleobotanist and an area called Clarno Fossil Location, a very unique area.

Don and the Northwest Federation program chairman are very pleased with a new program swap arrangement they have worked out that will enhance the pro-

gram library in the coming months. First of these programs, "One Hundred Miles of Agate", a tour of the Oregon coast has already been received and will be ready for club use about May 15.

The Midwest is anxious to have clubs participate in supplying programs for the library and clubs wishing to supply programs or have more information about their participation should write to the Film Library Chairman, Donald Stinnett,

All of the programs described above are available to Midwest clubs for immediate booking. Send your request for them to Donald Stinnett, Midwest Film Library, 29462 Aspin Drive, Flat Rock, Mich. 48124. Be sure to include the name and address of the person to whom the program is to be shipped, the exact date it is to be used, and name of your club. And don't forget to include the \$2.00 fee for each program you request. Always give an alternate date and program choice so you will not be disappointed.

Annual educational seminar dates set

The Michigan Geology and Gemcraft Society's Fourth Annual Educational Seminar, hosted by Mid-Michigan Community College in Harrison, Mich. will be held on Saturday, June 24 and Sunday, June 25.

The seminar will involve illustrated lectures and working demonstrations on a full range of topics concerning geology and the lapidary arts. The areas include jewelry design, silver casting, wirecraft, filigree, Paleontology, Archaeology, mineral photography, faceting, basic and advanced lapidary, mineral identification, uniform rules of judging, carving, and much more. Seminar '77 had 46 different lecturers, presenting 52 different programs, with each program presented several times during the weekend. It is important to note that each year MGAGS strives to offer many new lectures and demonstrations, so that even for those individuals who have attended in the past few years, there is always some-

thing new and exciting to see and to learn.

The seminar will also help to answer questions like how can I improve my exhibit, what does this rule mean, what are the qualifications for becoming a judge, could I clerk for a judging group at a show, where can I find materials for my case, why did I get this comment the last time my case was judged, and can I include this specimen. This portion of the seminar will be conducted under the guidance of Calvin George, past chairman of the Midwest Uniform Rules Committee and present member of the AFMS Uniform Rules Committee.

For further information write Lee Kirby, Chairman MGAGS '78 Seminar, 3660 Embarcadero, Drayton Plains, Michigan 48020

Paleontology society formed

The Mid-America Paleontology Society is the name selected by a newly formed fossil club. At their March 4 organizational meeting held at Augustana College, Rock Island, Ill. with 38 fossil collectors from three states and ten clubs attending Dick Johannesen, Davenport, Iowa was named President; Gil Norris, Rock Island, Ill., Vice-President; Alberta Cray, Cedar Rapids, Iowa, Secretary,

and JoAnn Good, Aledo, Ill., Treasurer.

Johannesen says the club is strictly a fossil club and no rocks, minerals, crystals or lapidary arts will be discussed. They plan to apply for membership in the Midwest Federation. Present membership includes three Assistant State Directors of the Midwest, the Midwest

Continued on back page...

WELCOME NEW MEMBER

The Midwest Federation welcomes into membership Ute Bernhardt, 1157 S. Elmwood Avenue, Oak Park, Illinois 60304.

Continued from front page...

Paleontology chairman, five bulletin editors, the Director Emeritus of the F. M. Fryxell Geology Museum at Augustana and a Consultant in Paleontology from the same museum. Ages of those attending the organizational meeting were from 8 to 78.

"MAPS" is open to anyone, anywhere who is sincerely interested in fossils. Interested persons may attend a meeting in person or write to Dick Johansen, 1508 W. 38th St., Davenport, Ia. 52806.

Park passports

The National Park Service now has available 1978 Golden Eagle Passports.

This passport costs \$10 for one year and will permit the owner and everyone with him in his vehicle to enter many federal parks and recreation areas where entrance fees are charged.

Golden Age passports, which are lifetime entrance permits to federal park areas, are also available. These passes are available free to persons aged 62 and older.

A brochure listing the areas where the passports are valid and telling how and where to obtain them is now available without charge by writing to the Heritage Conservation and Recreation Service, Department of Interior - South, Washington, D. C. 20204. Ask for pamphlet "1978 Federal Recreation Fee Program. Golden Eagle-Golden Age Passports".



MIDWEST SHOW AND CONVENTION



CEDAR RAPIDS, IOWA

AUGUST 10-13

Safety manuals proving popular

A report from Dr. Elwood T. Rees, the AFMS Treasurer, says the first 1000 Safety Manuals have gone out to fill orders. He is having a second 1000 printed to fill existing orders.

This 44-page booklet is an excellent manual covering three major safety areas, Field Trip and Camping, Lapidary and First Aid.

The booklet is available from the Federation Supply Officer in your club who can secure his supply from Robert H. Hopwood, 1869 N. 71st St., Milwaukee, Wis. 53212. Individual members are requested not to order directly Mr. Hopwood as he is not in a position to ship such orders.

Six summer workshops scheduled

Six Workshops in Native American Technology will be held starting July 17 and continuing through August 25. The workshops have been developed by the Northwestern University Archeological Program and will be held at the University in Evanston, Ill. Each workshop will be one week long and will enable participants to study North American Indian culture by making and using many items commonly found in the artifact assemblages of both prehistoric and historic Indian groups. An ecological perspective will be emphasized, with Workshop participants gathering a wide range of raw material from the environment and processing these into useful containers, tools, clothing, etc. Pottery and stone tool-making, weaving, woodworking, and collecting and processing native foods will be featured.

Workshops will be lead by John White, Director of the Native American Studies Program at the Kampsville Archeological Center; Greg Thomas, one of America's foremost flint-knappers; and Ele White, an expert in Native American weaving techniques.

Additional information on the workshops can be secured by writing Paul Shanks, Workshop Coordinator, Northwestern Archeological Program, 2000 Sheridan Road, Evanston, Ill. 60201

Top prizes

What probably is the most extensive group of prizes ever offered by a host club of a combined Regional and National show are being assembled for lucky winning show goers at the National Show in Pleasanton, Calif., July 27-30.

Carmen Cavalieri of the Castro Valley Mineral and Gem Society, the host club, says tickets and in-

formation regarding the drawing on Sunday afternoon, final day of the show, will be available at the show.

First prize is a Caribbean trip for two for eight days. Departure will be by air from the West Coast and the luxury cruise ship is to be boarded in Florida. Six ports of call can be included and total value of the prize is approximately \$2,000.

Mexico is the destination of

the second place winner and is valued at \$1,400. Winner will have a choice of three colorful areas in Mexico which is for two and covers an eight day period. Departure is from the West Coast.

A microwave oven with a \$500 value will be the third prize. In addition to the top three prizes there will be seven auxiliary prizes each with a value of approximately \$100.

WITH OUR MEMBERS

I'm sorry I ran out of room and didn't mention Ray & Helen last month, Helen spent several days in the hospital and Ray was feeling better. Since then Ray has spent 2 weeks in the hospital but was to come home soon. Helen says "Thanks to everyone for the cards and visits while they were in the hospital."

Don & Neva Shaw have sold their home and moved to an apartment. They had hoped to move to Oregon but their health doesn't permit it at this time. They had quite a job sorting their rocks and possessions, having a rock garage sale and a household auction. We wish them the best in their new home. They're at 111 Southview Dr. in Marion,

CONGRATULATIONS!!!!

Rick & Chris Austin are the parents of a baby boy, born April 27. He weighed 9 lbs. 10 oz. at birth. They've named him Eian John.

CONGRATULATIONS!!!

Jeff Nekola was confirmed last Sunday. Won't be late for any more meetings he says!

CLUB DIRECTORY CHANGES.....Please make changes in your directory.

Bill & Betty Beranek live at Cooper City, Fla. Not Copper.

Don & Neva Shaw have a new address...111 Southview Dr. Marion, Iowa

ADD...Louis & Ora Mae Cozart, 2117 High Drive S.E., Cedar Rapids, Iowa
52403 Phone.....362-3471

ADD...new members

Ann Flack	Jenny Kochanowski
296 41st St. N.E.	413 37th St. N.E.
Cedar Rapids, Iowa	Cedar Rapids, Iowa
393-3034 (Pebble Pup)	366-5798 (Pebble Pup)

FOR SALE...Highland Park 10" slab saw, can of oil. one extra diamond blade and stand. Jeff Nekola 363-9792

Howard "Babe" Barnett gave the program at the Waterloo club (Blackhawk Gem & Min. Sec.) on May 9th. Larry D. and Truman R. attended the meeting too.

Norman & Alice Brown attended the Lincoln, Nebraska Show March 31-April 2 and set up a table to publicize the Midwest Show here in Aug.

Alice Brown & Bud & Alberta Cray attended the Fossil Club meeting at Augustana May 6th. Albertas foot is still bothering her some but she is back to work.

The Midwest Federation Directories are here!!!!

Paint ALL your tools, hammers and chisels a BRIGHT yellow or orange so if you lay them down in a quarry you'll be able to find them. If you DO lose a tool be sure and notify the quarry operators of the area you lost it in so they can find it before they ruin their equipment on it. This carelessness is closing quarries to us all.

Leslie, Bob, Pat, Mike, Jeff & Robert

GEDAR VALLEY GEMS
Mrs. Robert Blin - Editor
505 - 5th AVENUE
MARION, IOWA 52302

[The body of the document contains several columns of extremely faint, illegible text, likely bleed-through from the reverse side of the page. The text is too light to transcribe accurately.]