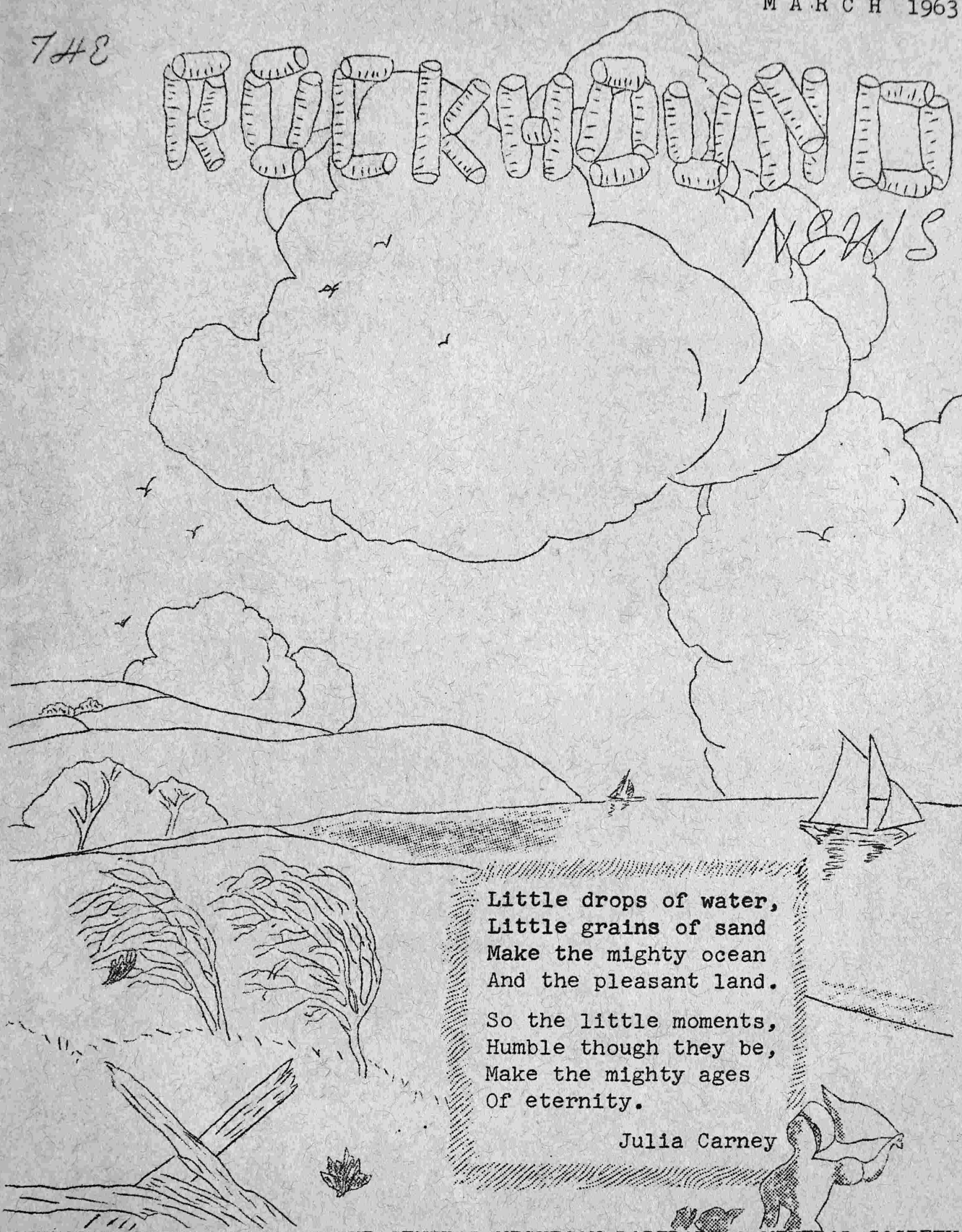


THE

ROCKWOOD

NEWS



Little drops of water,
Little grains of sand
Make the mighty ocean
And the pleasant land.

So the little moments,
Humble though they be,
Make the mighty ages
Of eternity.

Julia Carney

Officers for 1963

President

Edward Kirkby, 1603 Hull Court, Lansing 15

Vice President

Howard J. Randolph, RFD 2, Box 62, Lansing

Secretary

Mrs. Margaret E. Randolph, RFD 2, Box 62, Lansing

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Liaison Officer

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Permanent Mailing Address

Gladys Kirkby, 1401 Greenview Drive, East Lansing

Affiliated with

Midwest Federation of Mineralogical & Geological
Societies

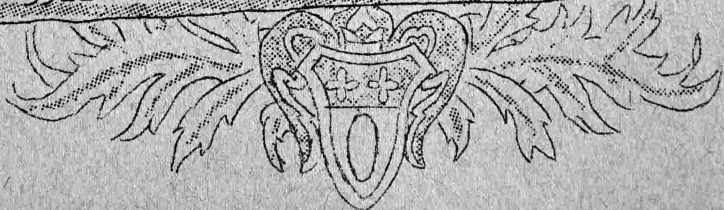
American Federation of Mineralogical Societies

Meetings

Walter French Junior High School Cafeteria
Third Thursday monthly except July & August
7:30 p.m.

Editor

William A. Russell
5911 Rolfe Road, Lansing





from the PRESIDENT

It is the request of President Kirkby that the first few members on the Club Roster be asked to bring a display of rocks - (oops, excuse me!....."specimens").

These may be many or few at the discretion of the member. According to our Roster, this would include the families of:

Mrs. Lou Alonso

Fred Bambrick

William Arend

Lloyd G. Bates

Mrs. Adeline Balzell

Dell Bennett

For April we will call upon the next few members.

Edward Kirkby
President
WAR



for March

Thomas Manley, instructor in the Natural Science Department at Lansing Community College, will give us more information on "Continental Drift and Glaciation".

This subject was introduced to us last June by Dr. Harm deBly of South Africa, Associate Professor of Geography. One of the things we remember was the 'fitting together' of the eastern side of our hemisphere to that of the western side of the European and African continents.

It is an absorbing subject about which we are eager to learn all we can.

Howard J. Randolph
Vice President

"And unto Eber were born two sons: the name of the one was Peleg, for in his days was the earth divided.".....Genesis 10:25 WAR

WORKSHOP -

From the workshop at Hyde's Rock Shop, comes the word that everything is going fine. It looks as though classes will continue into summer. It is hoped that everyone attending will have an opportunity to try out the various machines and operations ...sawing, grinding, polishing, slabbing, trimming, sanding, etc.

Francis Hyde
WORKSHOP

Remember, when you talk you only repeat what you already know, but if you listen you may learn something.

Ideals magazine.

"The moving finger writes...."

In Review -



There were some changes made in administration. The new Display Chairman is O.G. Langham. Oliver C. Rogers is unable to continue as Vice President. In his place Howard J. Randolph will serve.

Did you know that Michigan soils are at least 15,000 years old? And that all of them are glacial materials? Neither did I until Oliver C. Rogers, our February speaker, thus informed us. Soils can be fascinating - we find that here as well as in other areas time is a leveling influence.

Douglas Stolk had an interesting device at the meeting - a 'metal detector'. He built it from plans in the Popular Electronics magazine... as a school project.

Frank Rickerd brought a polished petoskey stone carved and shaped like a turtle... even an 'eye' in the proper place.

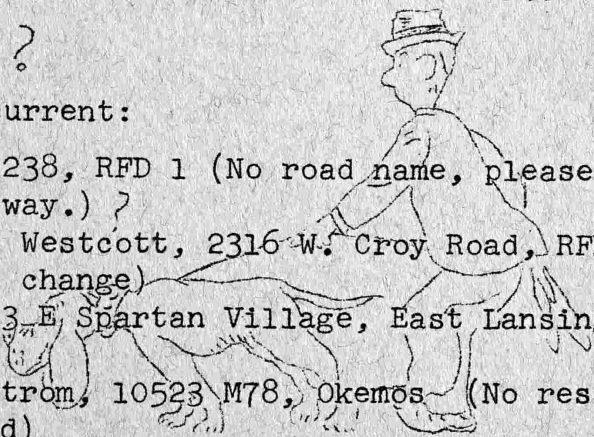
We welcomed the following new member to our midst:

#333 Mrs. S. Elnora Castelein, 2214 Harding, Lansing, Michigan.

Who's Where?

To keep your directory current:

- #303 Alfred Smith, Box 238, RFD 1 (No road name, please. Mailman prefers it that way.) ?
- #202 George J. and Glee Westcott, 2316 W. Croy Road, RFD 2, Mason 677-2943 (phone change)
- #257 George Winsor, 1413 E. Spartan Village, East Lansing, 355-0868 (phone change)
- #164 Harvey and Ada Eustrom, 10523 M78, Okemos (No residence change, just name of road)




We Went



And are we glad we did! We touched on many aspects of the field of Natural Science.... Petrology, Photogammetry, Geography, and Paleontology. We whetted our appetite on some choice viewing specimens.

Then we examined a few slides under the microscope. This was particularly interesting. We were told that the rock is ground to a depth of .03 of an inch, then viewed in

the microscope by reflected polarized light. Sometimes in grinding the specimen is ground right off the slide. Wouldn't that be frustrating? The color and other characteristics compared with slides of known rocks aids in the identification of unknown rocks.

Photogammetry gave us an insight into the plotting of maps via 

aerial photography. By using the stereo comparagraph, contour lines can be located.

Through the studies of Dr. Aureal Cross we know, for instance, that the leaves of the Columbian Period closely match those of today. An elm is an elm and recognizable in either period. Dr. Cross is a paleobotanist.

On the way out we discovered that "ambitious, progressive people work here, and then there's

Collins & Gude". gmmr.

BOOKS

The Michigan Department of Conservation Publications Office, Third Floor, Stevens T. Mason Bldg., Lansing 26, Michigan has a brochure available for 26¢.

"Michigan Sand Dunes" - a Geologic Sketch.

STAMPS

Thus far we have received one batch of used stamps, and those were from your editor's sister in Missouri.

The stamps needed are U.S. or Foreign commemoratives, each one of which will provide as much as 18 3/4 glasses of milk, for hungry children in foreign lands.

Please look over your old envelopes and send us your used stamps, or bring them to club meeting. It's little enough we can do.....WAR

Educated Proverb

A bounding boulder cannot accumulate a copious collection of miscellaneous lichens.....WAR

OPEN HOUSE

when...Sunday, March 24, 1963

where..Rich and Lila Stevens

why....To see our rocks

time...2:00 to 4:00 p.m.

(time out to feed family)

6:00 to 8:30

We live at 5889 West State Road. It is out. old US 16 to the first road past Airport Road. This will be Grove Road, turn North for one mile, then West (left) on State Road for three quarters of a mile. There we are, come on in.

Everyone welcome

Rich and Lila Stevens

SPELLING BEE

Well, how did you do? Did you look them up for yourself? Here are the answers to last month's spelling bee.

- | | |
|---------------|-----------------|
| 1. malachite | 11. sodalite |
| 2. galena | 12. fluorite |
| 3. sphalerite | 13. silicate |
| 4. baroque | 14. thomsonite |
| 5. jaspilite | 15. dolomite |
| 6. apatite | 16. amblygonite |
| 7. turquoise | 17. citrine |
| 8. aventurine | 18. staurolite |
| 9. hematite | 19. sulfur or |
| 10. amethyst | sulphur |
| | 20. iridescent |

Do you like brain teasers or would you prefer all the answers? If you want more, let us know.....WAR

Eleanor Owens solved printing problems of Editor....she gave Christmas tree tinsel to remove static from delivery feed table of the mimeo machine...for which he thanks her....gmmr.



Underground atom bomb blast last September 19 at AEC's Nevada testing grounds was dubbed the Ranier detonation. The 1.7 kiloton shot blasted off in a 6x6x7 ft. chamber at the end of a horizontal 1900 ft. tunnel in a volcanic rock mesa. The chamber was about 900 ft. under the mesa surface and 800 ft. from the steeply sloping hillside. Shock was detected by seismographs in Alaska about 2500 miles away. Dislodged rocks rolling down hillside raised cloud of dust on mesa, but no radioactivity escaped to atmosphere. The shot automatically sealed the tunnel in a "hook" formed by two 180-degree turns near the detonation chamber. The blasted rock filling the tunnel held the explosion products in the chamber.

Explosion effects first caused the chamber to expand to a spherical cavity about 110 ft. in diameter. The inner surface of this cavity was formed of melted rock resembling glass, so it consisted of a "glass" shell. Soon after, the shattered rock above the shell crashed through and filled the glass-lined cavity and formed another cavity 385 feet higher up, about 500 feet below the mesa top.

Hopeful theories had been advanced that the terrific pressures and temperatures might form precious gems - but none were found. The shot produced about 50,000 tons of broken permeable rock and another 400,000 tons of crushed impermeable rock. This effect could be used to break up ore bodies in mining, and to break up oil strata to free crude oil trapped in nonporous rock formations. Heat from the blast might make oil flow more freely through rock formations.

Unexpected result was to find rock temperatures of 90° to 190°F within about 60 feet of ground zero of the underground blast, 3½ months after it had been set off. This means that energy of blast could be used to produce steam for temporary short-term needs; trapped radiation helps to sustain heat production.

May 1958 Reprint from Power by B.G.A. Skrotzki

A Guessing Game

by Florence Geisler from GEOLOGEM
via MESABI MEDIA

1. One color by day, another by night,
A fine one is a collector's delight.
2. The most common mineral, yet with beauty galore...
Most lapidaries of this have quite a store.

Fred Gasche, Education

o o o o o o o

3. From the land of the Incas comes this lovely stone,
But the price of a clear one is cause for a groan.
4. Aluminum fluorosilicate is the chemical name,
When it's heated, the color just isn't the same.

More on page 9.....

Previews —

Grand Rapids Fourth Annual Gem and Mineral Show is still in process.. at the Public Museum. Displays, demonstrations and movies are included.

Peru, Indiana announces a special show....at Peru National Guard Armory...April 27th & 28th.

Saturday...1:00 to 9:00 a.m.

Sunday....10:00 to 7:00 p.m.

Admission: Adults 0.25

Children under 12..free

The show is sponsored by the Peru Y.M.C.A. Rocks and Mineral Club. There will be dealer's booths, club exhibits and individual collections.

If any member should wish to exhibit at this show, please write to Leon Copeland, 468 Monroe Ave., Peru, Indiana.

Amarillo, Texas is host city of Texas Federation of Mineral Societies show on May 3rd thru 5th, under sponsorship of the Golden Spread Gem and Mineral Society.

Kalamazoo, Michigan...Geological and Mineral Society is host to Gem and Mineral Fair.

10:00 to 9:00 p.m. May 25th

10:00 to 6:00 p.m. May 26th

Free admission. Will be over 100 cases of minerals, specimens, gems, jewelry, dealers' displays, club booths, fun booths, and rock identification booth - just to name a few items. Silent auction, educational demonstrations (tumbling, micromounting, faceting, silver-working, etc.) and swapping will be features, also. Parking will be ample.

Oklahoma City, Oklahoma is host to National Show.....annual show being sponsored by American Federation and Rocky Mountain Federation. Host club is Oklahoma Mineral and Gem Society.....June 13th to 16th.

Rumford Center, Maine is preparing for their Annual Exhibition, Round-up and Auction. Details in future issue.....July 13th and 14th.

Hibbing, Minnesota is headquarters for the 1963 Field Trip Convention. July 18th, 19th, 20th, and 21st. Plan now to go.....details in future issue.

Elmhurst, Illinois is the home of the Lizzadro Museum of Lapidary Arts. "Lighting and arrangement play a large part in the beauty and attractiveness of the museum specimens." (from Michiana Rock and Gem Gem Club "Rockfinder".) If anyone happens to be in the vicinity, they are advised to be sure and visit the Museum. It is new and located at Cottage Hill and Arthur Streets, Southeast corner of Wilder Park. Doris Kemp describes the museum in glowing terms. Miniature scenes, specimens, jewelry, polished slabs, and complete lapidary shop for instruction are some of the items of interest to be found there.

Dues are now overdue. Remember, only those paid up members will receive the 1963 News and Directory. Don't let your membership lapse... We want you!

Midwest Federation's "LETTER-A-MONTH"

A thought expressed in the constitution of a club recently seeking affiliation with the Federation reads: "Experience has shown that knowledge can be more readily acquired by combination of effort than singly..."

Why does a club join a federation? Just as an individual usually joins a club in order to learn from others all they know about the chosen hobby, to have pleasant contact with individuals of like interests and to make friends, so do clubs join the larger organization, THE FEDERATION.

The amateur rockhounds of this country and those from the rest of the world are bonded together by the Regional Federations covering specific areas joining to form one National Organization, THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES.

For a very small fee set aside from the dues you pay your club, the club secures the many benefits for you which are offered by the Federations.

Affiliated Societies are listed in regional and nationally printed rosters providing a means for interesting and enjoyable contacts with individuals, and other clubs throughout the country. (One copy of the Directory of your Federation is in the hands of your club's secretary). You may use such information to make contacts when on your vacations.

The American Federation and the Regional Federations maintain active working committees engaged in such matters as developing universal exhibit and judging rules, standardization of mineral nomenclature, securing and listing of program materials, and other matters of interest and benefit to all persons engaged in the hobby.

The American Federation, thru the help of the clubs belonging to Regional Federations, maintains a scholarship fund to encourage and help students of the earth sciences obtain an education in this field, so they may become the future scientists in such related subjects.

All clubs falling under the heading of "ROCKHOUND" are encouraged to examine the advantages offered by the applicable Regional Federation in whose area they operate and secure unto themselves such advantages.

Many clubs belong to more than one Federation particularly where more than one Federation may be relatively close.

YOUR MIDWEST FEDERATION

The advantages and opportunities that affiliated societies and individual members enjoy in the Midwest Federation are many and are listed here in brief form.

From the area covered by the states of Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin and the Eastern half of Nebraska, North Dakota and South Dakota, over one hundred and thirty societies, in addition to individual members, are banded together for mutual benefits. Through the Federation they are affiliates of the American Federation with all privileges.

All members may wear the official Midwest Federation and/or American Federation emblem as a pin on their coats or dresses, or as an attachment to their cars by means of a decalcomania. (These may be purchased from the Federation's Treasurer or thru the club secretaries for a small charge.

Member societies may use the official MWF or AMF emblem on their official stationery and Bulletins and Membership cards.

Affiliation will encourage societies and their members to have more contacts. This means broader knowledge, wider horizons, and the availability of experienced help when needed.

Membership cards are available for the club's use.

An official directory is sent to all member societies, listing the Federation's officials, the names of the societies, addresses of officers and time and place of meetings.

Societies and their members are encouraged to attend and participate in Midwest Federation conventions and shows. They will be entitled to enter displays and compete for awards and trophies.

The Society may seek the privilege of holding a Rockrama for its area. The Rockrama is a sub-regional show promoted each year.

The "Program Planners Manual" gives lists of films, slides and speakers available to each member society for club programs.

By exchanging the club Bulletin with other clubs, new views and ideas are made available to everyone who participates.

News of society activities is carried regularly in the "Earth Science Magazine" which is devoted to the publication of articles related to the earth sciences and the lapidary arts. This magazine is the official organ of the Midwest Federation and is available on a subscription basis.

There is a state Vice-President assigned to each state, where more than three member societies exist, who is ready to help with problems encountered by a society. (He may offer suggestions for a solution to problems, but determination of outcome is the society's responsibility.)

The following Divisions have been set up by the Federation to carry out its objectives in serving the affiliated members: (1) Archeology (2) Geology (3) Lapidary (4) Mineralogy (5) Paleontology. Each of these Divisions is headed by an expert in the field who is ready to answer questions.

In addition, Committees established to take care of specialized tasks are (1) Directory (2) Education (3) Membership (4) Nomenclature (5) Letter-A-Month (6) Uniform Exhibit Rules (7) Program (8) Display Cases (9) Mineral and Fossil Exchange (10) Bulletin Exchange (11) Field Trip Coordinator (12) Rockrama (13) Conservation of Collecting Areas (14) Operations Manual (15) Convention Committee by the Host Society each year and (16) Credentials.

The work by the many Committees and Divisions is carried on for the benefit of all members of the Federation and to cooperate with the American Federation in affairs of a national scope.

All of this for the small per capita cost of 25¢ computed on the Society's membership roll as of December 31, with a minimum of \$2.50 for each Society. Five cents of this is forwarded to the American Federation for its efforts on behalf of all six Federations making up the American Federation.

In addition, the benefits listed for clubs are available in like substance for the individual at \$3.00 per person per year.

SUBSCRIBING MEMBERSHIP - MWF... This type of membership is limited to those individuals who, although belonging to a society affiliated with the Midwest Federation, elect to secure all mailings of the Federation on a personal basis. The dues are the same as for individual membership.

REPORTS FROM OUR MIDWEST FEDERATION DIVISION CHAIRMEN:

Paleontology...Gertrude Hannen, Chairman of the Paleontology Division, has compiled an excellent 15 page bibliography of books and pamphlets on geology. By request, she has also included some mineral information and materials for children. A valuable part of this bibliography is the list of publications issued by each State Geological Survey in the Midwest, plus those in Tennessee, Texas, Pennsylvania and New York. A copy of this list, which is entitled "Information on Geology of the Midwest and Elsewhere for Children, Beginners, and Interested Adults", is being sent to each Midwest society.

Archeology...Dan Printup, Chairman of the Archaeology Division, has written two very fine articles on archaeology which have been published in Earth Science Magazine, the Federation's official publication.

"Methods of Dating", the first of the two articles, was published in the April 1962 issue, and the second article, "Populating the Western Hemisphere", was printed in the October 1962 issue. Each member society of the Midwest Federation may obtain one free copy of each of these issues by sending a request for Mr. Printup's articles to: Earth Science, Box 1357, Chicago 90, Illinois. Please give the name of the requesting society. These articles were written for members of the Midwest and may be reprinted in society bulletins.

GIFTS.....

John and Lillian Mihelcic have duplicated their most popular slide program, "Rivers of Ice", and have given it to the Federation's Program Library. Since "Participation" is the Midwest's theme, John and Lillian write, "We are giving this program as an outright gift to the Federation".

This beautiful and informative program tells the story of glaciation as John and Lillian saw it in Newfoundland, Nova Scotia, Ontario, Michigan, the Canadian Rockies and Alaska over a period of 20 years. John and Lillian, who are lifelong members of the Federation now reside in Portland, Oregon. John was President of the Federation in 1946-47.

Perry Reynolds, a member of the Michigan Mineralogical Society, has presented the Federation with 150 mineral slides. These slides are given in memory of his beloved wife, Mildred M. Reynolds, who deeply appreciated the beauty and intricacy of the things God put on earth. She recognized that the genuine life-long enjoyment of the individual was greatly enhanced when understanding was broadened by a study of the natural science, and so encouraged the scientific approach.

The Michigan Gem and Mineral Society has donated \$25 to the Midwest Federation to be used for the purchase of a slide program on either the cleaning and preparation of minerals or on fossils. Program Chairman Ellis Courter will make the selection.

The Minnesota Mineral Club has contributed \$106 to the American Federation Scholarship Foundation. The purpose of this Foundation is to award scholarships to proven students in the field of the earth sciences who have shown the ability to complete college and merit education for a master's degree. The Foundation needs at least \$20,000 more before it can begin to operate on a self-sufficient basis. Societies and individuals wishing to contribute to this worthwhile cause should send their donations to Richard W. Burnham, Chairman, AFMS Scholarship Foundation, 524 Highland Ave., Upper Montclair, New Jersey. All such contributions are tax deductible. Make checks payable to the AFMS Scholarship Foundation.

THE CHANGE IN BY LAWS submitted to the member societies in December carried.

DISPLAY CASES offered for sale recently to clubs and individuals are still available, from word received from Leo Yanasak. This is the all metal, lighted case used at the Des Moines show last year.

Abridged from Letter-A-Month by Celis Vokoun of Omaha, Nebraska
WAR.

Guessing Game (Continued from page four)

5. From Africa comes a fine stone
so green;

A high-priced one at our Rockrama
was seen.

6. A red and green makes up the
best

And almost any color can be the
rest.

7. A form of beryl that's truly
pink...

To bring out its beauty, facet
it, I think.

8. This stone has the deep blue of
the sky,

And for setting it, silver work
you should try.

9. A gift of the sea is this sought
after jewel;

Imitations may even an expert
fool.

10. They say the Chinese know this
by its feel,

And whether it's cheap or surely
real.

The answers will be waiting in the
next month's bulletin or at the
March meeting.



.....opportunity knocks.....



Are you annoyed at not being able to identify specimens gathered on field trips? Gathering them because you like them, but having to depend on someone else's knowledge as to what you have? Well, I am! What am I going to do about it? This: I'm going back to school!

Michigan State University Geology Department is offering as an evening course during the Spring term a course on Minerals, Rocks, and Fossils. This is the first time it will be offered other than in summer school. It is called Geology 326. It is a 3 credit course (not open to Geology majors) or can be taken as a non-credit course.

Classes begin March 28th and end May 28th. Room 213, in the Natural Science Building. Fee....\$26.00 (if State Resident).

Tue Thur 7:00 - 8:00 p.m. Lecture - Stonehouse

Tue Thur 8:00 - 9:30 p.m. Laboratory - Stonehouse

Description, occurrence and identification of minerals, rocks, and fossils and additional features of especial significance to general science teachers and other earth science interest groups.

R E A D O N if you are interested in details. Go to the men's intramural building between 7:00 and 8:30 p.m., Monday or Tuesday, March 25th or 26th, and ask to "audit" course Geology 326. Or..... go to 106 Administration Bldg., March 28th from 8:00 to 11:30 a.m. or 1:00 to 4:00 p.m. to register.

There is no additional laboratory fee, but students will need the textbook, "Rocks and Minerals" by Zim and Shaffer, a Golden Press book. Also needed is a ten power hand lens.

Dr. Stonehouse tells us that this will be a testing ground for future offerings of this course. If sufficient numbers of people respond, it will be offered again. This is an excellent way to gain authoritative knowledge, under auspices of our own university.

SEE YOU IN CLASS.

METAMORPHIC ROCKHOUNDS

Those having been "Altared"

Dr. Theodore Werle, last year's Rockhound News Editor, and Miss Mary Maier, the Publisher, spoke wedding vows in February and honeymooned in Mexico. All of us wish to extend our best wishes to them.

Does Michigan have a geological marvel rivaling Mammoth Cave of Kentucky? Be sure and read the next issue of "Rockhound News" for the answer.....WAR

.....gmmr.

STONE ORGAN

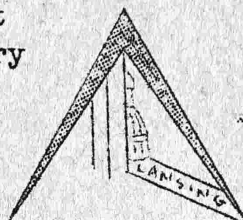
Leland W. Sprinkle, Sr., has coaxed real music from stone in the caverns of Luray in Virginia. A Great Stalacpipe Organ electronically controls the cushioned hammers that strike stalactites, producing beautiful tones.

When small son bumped his head against one of "pipes", father was fascinated by deep tone...and it was a short step from electronic engineer at the Pentagon to organ builder. After determining that it could be tuned, grinding commenced.

See back of cover

Board Members

Edward Kirkby, President
Howard J. Randolph, Vice President
Mrs. Margaret E. Randolph, Secretary
Mrs. Pearl Bambrick, Treasurer
James Patterson, 1 year member
Sam Knox, 2 year member
Arthur Krave, 3 year member
Elmer Eckhardt, Past President



Committee Chairmen

Education

Fred Gasche, 1811 Osband St., Lansing

Display

O. G. Langham, 413 S. Park St., Mason

Field Trips

Thomas H. Malkin, 5839 Lake Lansing Dr., Haslett

Membership

Mrs. Eleanor Owens, 1924 Roberts Lane, Lansing

Program

Howard J. Randolph, RFD 2, Box 62, Lansing

Workshop

Francis L. Hyde, RFD 5, Charlotte

Welcome

Mr. & Mrs. Joe Kreps, 2605 Delta River Dr., Lansing

Librarian & Historian

Mr. & Mrs. Ray Brown, 2116 Quentin St., Lansing

Membership Fee \$2.00 Students Fee \$1.00



Since only two of stalactites were in tune, aluminum oxide sanding discs rotating at high speed were worn down speedily. Thirteen English tuning forks were used before precise tuning could be done by referring to a system of precision oscillators. These were amplified and grinding began until beats, or wavy effects, disappeared.

The process is a tricky one, but a lasting one. "These exceptionally hard rocks will stay in tune, says Sprinkle, for at least a thousand years."

Organist Mrs. Russell says she would like opportunity to play the organ.....WAR

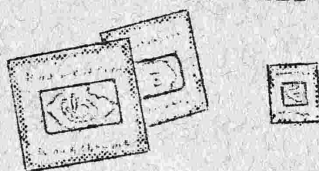
Taken from article in Kalamazoo "Gems" by Gertrude Jordan.

rock slides

Ernest W. Jordan in the "Gems" bulletin relates of using micro-thin slabs of agates, for instance, as transparencies. He says Dr. Dake's "The Art of Gem Cutting", pages 90-93, describes several methods of viewing transparencies. Editor, Eleanor Douglas, adds that slabs can be set into a 2"x2" cardboard slide frame and viewed through a projector much as 35mm slides are.

If the Stucks are not now doing this, maybe they and other of us photo hobbyists can get together and look into this new rock phase.

gmmr.



Please send EXCHANGE BULLETINS to:

William Russell
Editor "Rockhound News"
5911 Rolfe Road
Lansing 10, Michigan



Third Class

Richard E. Stevens
5289 W. State Rd.
Lansing, Mich

