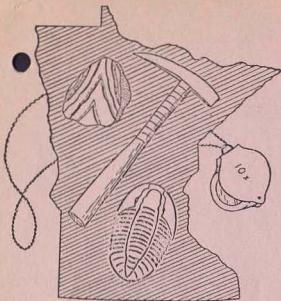


November 1970



Geological Society  
of Minnesota

# NEWS



Geological Society of Minnesota

Robert V. Leacock, Editor  
1235 Brighton Square  
New Brighton, Minn. 55112

FIRST CLASS



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TIME VALUE



The GEOLOGICAL SOCIETY OF MINNESOTA is an amateur group that accepts Geology as an absorbing hobby. We solicit and welcome the help and direction of membership from professional ranks, but by and large our approach to the subject is that of the layman. Most of us are not true rockhounds, although we do collect minerals, rocks and fossils. Our main purpose is to promote interest in the study of Geology of the state of Minnesota.

OFFICERS

PRESIDENT	Sam Mayo Box 270, Route 6 Excelsior, Minn. 55331	474-4038
VICE PRESIDENT	Russell Pool 403 East 3rd St Chaska, Minn. 55318	448-2102
SECRETARY	Dr. Bert Carlson 3034 46th Ave. So. Minneapolis, Minn. 55406	724-1486
TREASURER	Mrs. Don Tepel 1269 So. Cleveland Ave. St. Paul, Minn. 55116	699-1793
DIRECTORS	Elmer Brown 5225 Zenith Ave. So. Minneapolis, Minn. 55410	922-2438
	Michael Vaclavek 3904 Joppa Ave. Minneapolis, Minn. 55416	926-0185
	Robert Leacock 1235 Brighton Square New Brighton, Minn. 55112	636-2473

\* \* \* \* \*

MEMBERSHIP

TYPE OF MEMBERSHIP:

ADULT	\$ 7.00
HUSBUND & WIFE	\$10.00
STUDENT	\$ 2.00

MEMBERSHIP CHAIRMAN:

Miss Martha Peterson  
3527 Pleasant Ave.  
Minneapolis, Minn. 55408  
Phone: 825-1147



## 1970 Midwest Federation Convention and Show

The Midwest Federation of Mineralogical and Geological Societies is one of the largest of the six American Federations and boasts of about 15,000 members. The Minn. Mineral Club which hosted the Federation in Minneapolis in July did a very fine job. About 10,000 paid admissions were recorded during the four day event.

The auditorium was filled with beautiful mineral and fossil displays from various clubs and individuals. Our own Geological Society had a nicely arranged display of beautiful and interesting specimens, thanks to Mr. Eggerich.

Quite appropriately Lake Superior agates were displayed on many tables. The 21 pound agate owned and displayed by Ernie Council of Osage, Iowa was the envy of all the Minn. members. "The Dress the Stars Fell On", displayed near the center of the auditorium attracted much attention, with its 525 carats of star sapphires sparkling in the light. In one booth Mr. & Mrs. Strangberg of Kenosha, Wisc. showed several paintings. Rocks ground to powder made the pigments used in their paints. The pictures took on the soft beauty of pastel paintings.

Other displays included Mr. Novak's diamonds, the Great Seal of the U.S. agate butterflies, rock clocks, carvings, jewelry, polished rocks, geodes, world famous fossils, and many more.

Dealers from various parts of the country had their usual fine displays for sale, and lectures, symposiums and demonstrations were offered mornings and afternoons.

The banquet Saturday night was well attended. Unfortunately, it was necessary to have the annual "Rock Swapping" at Lake Independence Camp Grounds, thus separating it from the rest of the convention.

Mr. Jay Wollin will succeed Mrs. June Culp Zeithner as President of the Midwest Federation for next year. The Federation will meet at Mansfield, Ohio on July 22-25, 1971. Adding this to your vacation will be well worth the time.

--Wilma Monserud

Official Publication of the Midwest Federation of Mineralogical Societies.

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# New DEVELOPMENTS



The FALL LECTURE SERIES has been enthusiastically attended and enjoyed by all.

Nothing but praise has been heard for the excellent movies which tie in to each informative lecture. The Labs which supplement these have been rescheduled to the 1st and 3rd Mondays of the month at Pillsbury Hall, Rm. 100, U. of Minn.

### NOVEMBER\*DECEMBER SCHEDULE

- November 2 - Lab
  - November 9 - THE EARTH'S SCULPTRESS:  
RUNNING WATER
  - November 16 - Lab
  - November 23 - CLIMATIC EFFECTS ON  
LANDSCAPE DEVELOPMENTS
  - December 7 - Lab
  - December 14 - ICE AGES & OCEANS  
Christmas Vacation
- The lectures will continue to be held in Rm. 55, Ford Hall, U. of M.

The GSM Board voted to make Mr. & Mrs. Lawrence King, 1879 Feronia, St. Paul, honorary members of the Minnesota Geological Society. It was through the kindness and generosity of the Kings that the Society was able to enjoy many annual picnics at their lovely home on the St. Croix.

NAME TAGS -- Plastic name-tags may be ordered at any meeting from Martha Peterson -- only 60¢.

And, AFTER THE LECTURES. . . coffee and doughnuts are served, so that members may meet informally with each other and the speaker for the evening.

## SOCIETY MEMBERS

### A BIG THANK YOU



to the following members of the Geological Society of Minnesota who assisted in manning the booth at the STATE FAIR, and especially to Mrs. Ethel Shimek who made the initial arrangements and solicited volunteers.

Some of the results from the booth at the Fair can be seen on the next page in the form of many new members.

Ethel Swanson	William Cavert
David Hellman	Paul Stor
John Nordberg	Goldie Johnson
Hilda Dahler	Helen Woodward
Irven Dahlberg	
Mr. & Mrs. Stephen Gates	
Mr. & Mrs. Michael Vaclevek	

### Job Well Done

**THE**  
*Johnny Horizon*  
**OUTDOOR PLEDGE**

AS A VISITOR TO THE PUBLIC LANDS I PLEDGE TO

- KEEP THE LAND CLEAN AND FREE OF LITTER
- RESPECT AND TREAT THE LAND AS MY OWN
- LEAVE GATES AND FENCES AS I FIND THEM
- OBEY STATE GAME AND FISH LAWS
- BE CAREFUL WITH FIRE

U.S. DEPARTMENT OF THE INTERIOR • BUREAU OF LAND MANAGEMENT

# welcome

## NEW MEMBERS:

Mr. Harold Richter  
565 Tower  
St. Paul, Minn. 55119  
735-4367

Mr. Levi H. Sterner  
466 East Sarnia  
Winona, Minn.

Carol Van Why  
2072 Buford Ave.  
St. Paul, Minn. 55108  
647-0353

Margaret Wapola  
10124 Pioneer Drive  
Burnsville, Minn. 55378  
890-4213

Patricia Waring  
589 Forest St.  
St. Paul, Minn. 55106  
72-1356

Mr. & Mrs. Leonard O. Langle  
1021 B Magnolia Lane No.  
Minneapolis, Minn. 55427  
545-5015

Jeanette Ludwig  
4916 1/2 Tyler N.E.  
Minneapolis, Minn. 55421  
788-7439

Mr. Kenneth A. Nelson  
5055-18th Ave. So.  
Minneapolis, Minn. 55417  
224-3578

Mr. & Mrs. V.H. Nelson  
15810 East Holdridge Rd.  
Wayzata, Minn. 55391  
473-3980

Dr. Valentine O'Malley  
942 Lowry Medical Arts Bldg.  
St. Paul, Minn. 55102  
2-4421

Mary T. Buechele  
3336 Irving Ave. So.  
Minneapolis, Minn. 55408  
827-1493

Dr. Lewis S. Carey  
4 Sunset Lane, North Oaks  
St. Paul, Minn. 55115

Mrs. Ralph C. Colby  
80 Seymour Ave. S.E.  
Minneapolis, Minn. 55414  
335-5610

Prof. Arnold O. Frederickson  
3214 Fillmore St. N.E.  
Minneapolis, Minn. 55418  
788-0715

R.G. Gilles  
701 Surrey  
St. Paul, Minn. 55106  
776-0365

Mr. Gregory J. Gosselin  
226 West Spruce  
South St. Paul, Minn. 55075  
451-7604

Kay T. Hansen  
1938 Autumn  
St. Paul, Minn. 55113  
644-1870

Mr. & Mrs. Dale W. Johnson  
11310B County Rd. 15  
Minneapolis, Minn. 55408  
553-3953

Mr. & Mrs. Leonard Jones  
356 Dessa Lane  
South St. Paul, Minn. 55075  
455-9334

Mr. Anthony Just  
1475 Wynne Ave. Apt. 5  
St. Paul, Minn. 55108  
644-5810

Mrs. Laura K. Kadwell  
3210 Irving Ave. No.  
Minneapolis, Minn. 55412  
521-1147

Ruth L. Krook  
491 Eustis St.  
St. Paul, Minn. 55104  
645-6167

TABLET INSCRIPTION #7

Geology of Minnesota

LAKE MINNETONKA REGION

\*\*\*\*\*

Prior to the great ice ages the surface of this region consisted of sandstones and limestones deposited in Cambrian and Ordovician seas several hundred million years ago. Previous to glaciation the drainage was to the south. The principal watercourse, several miles wide, had its headwaters in central Minnesota and extended southeastward, under Lake Minnetonka, to Pine Bend on the Mississippi 10 miles below St. Paul. In that channel, once a conspicuous feature of the landscape, flowed the ancestral Mississippi.

There were

There were four major epochs of glaciation. The glaciers 10,000 feet thick at their centers in Canada, moved southward to cover most of the state and filled the pre-glacial valley of the Mississippi with sand and gravel - glacial drift - to a depth of several hundred feet. Lake Minnetonka is perched on that drift, 930 feet above sea level and 400 feet above the rock floor of the valley.

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TABLET INSCRIPTION #8

Geology of Minnesota

MILLE LACS LAKE REGION

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This part of Minnesota was covered by Glacial ice, several thousand feet thick, on at least four occasions during the last million years. As the glaciers moved in from Canada they brought with them enormous quantities of glacial drift - clay, sand, gravel, and boulders of granite and limestone - which was deposited in sheets or in irregular hills and depressions along stationary ice fronts. One such zone, a terminal moraine, formed during the last or Wisconsin stage of glaciation 10,000 years ago, encircles Mille Lacs on the West and South, from Nichols to Isle, and effectively dams the water to form the second largest lake in the state.

Mille Lacs is 18 miles long and 14 miles wide. Its surface is 1249 feet above sea level and its depth - 30 to 40 feet - is quite uniform throughout. The overflow of the lake is discharged through the Rum River which flows from Vineland to Anoka about 70 miles to the south, where it empties into the Mississippi.

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## DEATHS

News was received of the death of Dr. H.N. Reinking on August 20th. Dr. Reinking was President of the Minnesota Geological Society - ~~1957~~ 1960.

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### CORRESPONDENCE

Letters to the Editor are welcomed and will be published, if found suitable, as space permits.

"He has achieved success who has lived well, laughed often, and loved much, who has gained the respect of intelligent men and the love of little children, who has filled his niche and accomplished his task, who has left the world better than he found it, whether by an improved poppy, a perfect poem, or a rescued soul, who has never lacked appreciation of earth's beauty or failed to express it, who has always looked for the best in others, and given the best he had, whose life was an inspiration - whose memory, a benediction."

Bessie A. Stanley