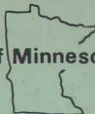


Geological Society of Minnesota



NEWSLETTER

MARCH 1969

DATES

TO REMEMBER

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PROPOSED 1969 FIELD TRIPS

The GSM Board has been organizing the field trip schedule for 1969, with a tentative calendar as follows:

May 11 - Agate Hunt

June 12-14 - Midwest Federation Field Trip Convention, Murdo, So. Dak.

July 26-28 - Barron Hills, Wisconsin
Leaders: Dr. Gerald Webers
Mr. Hal McNeethy

August 3 - ANNUAL GSM PICNIC:

August 16-17 - Spring Valley, Wisconsin ✓
Caves

September 20-21 - Cuyuna Range ¹³⁻¹⁴

October 5 - Type Sections

A final schedule will be prepared soon, but begin making your plans NOW!

ANNUAL BANQUET-MEETING

The 1969 Annual GSM Banquet-Meeting will be held on Monday evening, April 28, beginning at 5:30 p.m., at the First Christian Church, East 22nd Street at 1st Avenue South, Minneapolis. The social hour at 5:30 p.m. will be followed at 6:30 p.m. by the Banquet, the annual meeting and election of Directors, and a presentation by Mr. Richard L. (Bart) Bartels.

Mr. Bartels will speak on the effects of geologic occurrences on our society; and specific references will be made to the San Andreas Fault along the California coast. He will use slides and graphs to illustrate his presentation.

Make plans NOW to attend! Additional information will be sent to you soon!

DUES...and ROSTER LISTINGS

1969-70 dues are payable any time, beginning with the Annual Banquet meeting on April 28. Please pay your dues promptly so your name will be included in the new up-to-date roster, which will be printed shortly.

Important Notice ★ extra ★

BONUS LECTURE

On March 31, Dr. F. J. Sawkins, of the University of Minnesota, will speak on "Classification of Ore Deposits." Because Dr. Sawkins was unable to speak when originally scheduled, he has offered to speak at this extra GSM meeting.

Mark Monday, March 31, on your calendar and be sure to attend this extra and very interesting lecture!

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.

RECOMMENDED READING

An Illustrated Guide to Common Rocks and Rock-Forming Minerals, by David Allen and Vinson Brown - 35¢

Gems, Minerals, Crystals and Ores, by Dr. Richard M. Pearl - \$2.95

Our Changing Earth Through the Ages, by Jerome Wyckoff (available at Science Museum, St. Paul) - \$2.95

Minnesota's Rocks and Waters, by Schwartz and Thiel (University of Minnesota Press)

Mining Geology, by H. McKinstry (Prentice Hall)

Manual of Mineralogy, by Dana

Mineralogy, by Berry and Mason

Mineralogy for Amateurs, by John Sinkankas

Principles of Mineralogy, by Dennen.

"Lateritic Soils," by Mary McNeil, Scientific American, Nov. 1964, pp. 96-102.

REMEMBER, DR. GERALD WEBERS, PRESENTATION MARCH 24TH, "GEOLOGY OF ANTARCTICA".

Life is too short to be small.—Disraeli

What's Going On!

Membership Attends Classes

A class in Basic General Geology, taught by Richard L. Bartels, began February 6 in Pillsbury Hall, UofM Campus. The class consists of lectures, readings, a variety of visual aids, illustrative materials, slides, charts, maps, graphs, etc. (The class originally scheduled at Minneapolis Vocational Evening School had insufficient registrants, so Mr. Bartels established the special class at Pillsbury Hall.)

In the fall of 1969, Dr. Gerald Webers will be offering a companion class in Historical Geology at Macalester College.

There Was A Time . . . IN SUMMER AND FALL 1968 when the Geological Society of Minnesota made the following field trips:

JUNE 23 - TO ST. CLOUD AND COLD SPRINGS (LED BY DR. BERT CARLSON AND ELMER BROWN) TO STUDY VARIOUS GRANITES IN THOSE AREAS. WE TOURED THE COLD SPRINGS GRANITE PLANT AND LEARNED ABOUT THE METHODS USED IN CUTTING GRANITE.

AUGUST 3-4 - TO BARABOO, WISCONSIN (LED BY DR. GERALD WEBERS) TO STUDY THE COMPLEX STRUCTURE OF THE AREA, THE BARABOO SYNCLINE, BARABOO QUARTZITE, GLACIATION, AND BASIC LAVA FLOWS.

SEPTEMBER 7-8 - TO JAY COOKE PARK, PINE CITY, AND SANDSTONE (LED BY DR. BERT CARLSON AND ELMER BROWN) TO STUDY THE HINCKLEY SANDSTONE AND THE SLATE AND GRAY-WACKE OF JAY COOKE PARK.

OCTOBER 6 - TO MINNEHAHA PARK (LED BY JOSEPH ZALUSKY, CURATOR OF HENNEPIN COUNTY MUSEUM AND FORMER GSM PRESIDENT) TO STUDY AND OBSERVE THE PARK'S GEOLOGY, THE RECESSION OF ST. ANTHONY FALLS AND OF MINNEHAHA FALLS, THE PIRATING OF A PORTION OF THE MISSISSIPPI RIVER, AND THE ABANDONED FALLS.

ON AUGUST 11, THE GSM ANNUAL PICNIC WAS HELD AT THE KING'S HOME ON THE ST. CROIX AND WERE WELCOMED BY OUR HOSTS. FUTURE FIELD-TRIP PLANS WERE DISCUSSED, AS WELL AS THE RESUMPTION OF OUR FALL AND WINTER PROGRAM.

The Bloomington Mineral and Gem Show was held at Southdale on September 14-15, 1968. As usual, many outstanding exhibits were shown to create and stimulate interest in Geology. The GSM Society was represented by Martha Peterson, Wilma Monserud, Louis Eggerichs, and Theodore Isakson.

RECAP OF FIELD TRIP SEMINAR
AMERICAN-MIDWEST ROCK CONVENTION
NORMAL, ILLINOIS - AUGUST 1968

The Midwest Federation and National Gem and Mineral Show was held August 22-24, 1968, in Horton Fjeld House, Illinois State University, Normal, Illinois. The host was the Corn Belt Lapidary Society of Bloomington, Illinois.

Martha Peterson and Wilma Monserud attended the show, and said it was a remarkable exhibit but the weather was very warm. They saw Messrs. Hazel Perry and William deNeui there.

EDUCATIONAL PROGRAMS PLANS ARE IN PROCESS FOR DEVELOPING AND IMPLEMENTING SOME PROJECTS SUGGESTED BY DR. ZOLTAI; ALSO, TO RESOLVE QUESTIONS OF WHAT WE SEE AS OBJECTIVES OF THE GSM, OUR RELATIONSHIPS TO OTHER GROUPS, AND OUR EDUCATIONAL GOALS.

MEETINGS OF GSM REPRESENTATIVES AND MEMBERS OF THE DEPARTMENT OF EARTH SCIENCES AT THE UNIVERSITY OF MINNESOTA ARE BEING HELD TO INVESTIGATE VARIOUS AREAS OF PUBLIC INTEREST IN GEOLOGY. THE GSM REPRESENTATIVES WILL PRESENT A REPORT LATER.

AT ONE SUCH MEETING, GEORGE RICKERT COMMENTED THAT, IN HIS WORK WITH MINNEAPOLIS SCHOOL CHILDREN, HE HAS BEEN CONFRONTED WITH THE PROBLEM OF FINDING SUITABLE PLACES FOR THEM TO LOOK FOR SPECIMENS CLOSE TO THE TWIN CITIES, AND ESPECIALLY WHERE HANDICAPPED CHILDREN MIGHT GO. DR. SLOANE TOLD OF A PLACE NEAR FORT SNELLING THAT IS SIMILAR TO THE TWIN CITY BRICK YARDS' SHALE-PIT IN ST. PAUL.

MR. RICKERT AND MR. EGGERICHS SURVEYED THE LOCATION ACROSS THE MENDOTA BRIDGE BEHIND A HOTEL AT THE SOUTHWEST CORNER OF HIGHWAYS 55 AND 13. THEY RECEIVED PERMISSION FROM THE LADY IN CHARGE, AND SPENT A FEW HOURS CLIMBING SLIPPERY BANKS WHERE THEY FOUND BRACHIOPODS, BRYOZOAS, A FEW SMALL CEPHALOPODS, AND SOME OOLITE.

ACCORDING TO SCOTT'S BOOK ON GEOLOGY, "OOLITE IS A LIMESTONE COMPOSED OF MINUTE SPHERULES OF CARBONATE OF LIME, WITH A BRONZE COLOR, CEMENTED TOGETHER INTO A MORE OR LESS COMPACT MASS, SOMEWHAT RESEMBLING FISH ROE, HENCE ITS NAME WHICH MEANS EGG ROCK. THE SPHERULES ARE MADE UP OF CONCENTRIC LAYERS OF CARBONATE OF LIME, DEPOSITED FROM SOLUTION AROUND SOME NUCLEUS, WHICH MAY BE A PARTICLE OF SAND, DUST OR A CALCAREOUS FRAGMENT. THE BEACH ROCK OF A CORAL REEF IS MADE IN THIS FASHION, AND CALCAREOUS SINTER OFTEN HAS A SIMILAR STRUCTURE. WHEN THE SPHERES ARE LARGER, RESEMBLING PEAS, THE ROCK IS CALLED PISOLITE."

Committees

GSM COMMITTEES AND CHAIRMEN

Lecture Programs . . . Paul Vogt, Fred Hallberg, Alex Lowe
Field Trips . . . Mrs. Don Tepel, Elmer Brown, Bert Carlson
Membership . . . Martha Peterson, Goldie Johnson, Joyce Showalter, Catherine Green
Librarian . . . Wilma Monserud
Sunshine . . . Mrs. S. S. Benson, Marie Woltman
Telephone . . . Mrs. Don Tepel, Helen Sommers, Elsie Hinchley
Bylaws . . . Alex Lowe
Talent Search . . . Martha Peterson
Historian/Archivist . . . Hal McKeithy
Geologic Tablets . . . Lawrence King
Education . . . Theodore Isakson, Alex Lowe, Louis Eggerichs, J. S. Lewis, Bernice Peters, Mrs. Don Tepel, Clark Pettengill, Elmer Brown, Martha Peterson, Bert Carlson, George Rickert, Fred Hallberg

MIDWEST FEDERATION FIELD TRIP CONVENTION
JUNE 12-13-14-15, 1969
Headquarters—Wards, South Dakota

OF NOTE

PROGRAM LECTURES PLANNED FOR 1969-70

The GSM Program Committee and Board are reviewing a practical lecture series for our 1969-1970 program, with a major topic of geologic collections and mapping. Some of the suggested topics are:

Systematics of mineralogy; collecting minerals; systematics of paleontology; collecting rocks and fossils; reading topographic and geological maps; geological mapping of soft and hard rocks; aerial photographs; groundwater and subsurface geological maps.

Dr. Tabor Zoltai, Chairman of the Department of Geology and Geophysics, University of Minnesota, is assisting the GSM in these plans.

Look for your GSM's 1969-70 Program, which will be issued soon!

CONSTITUTION & BY-LAWS

Dr. Alexander D. Lowe, Chairman of the Constitution and Bylaws Committee, announces that the membership will soon have revised Articles of Incorporation and Bylaws to consider for adoption.

The Minnesota Department of Economic Development is publishing a pamphlet on "Rock Hunting in Minnesota" -- in COLOR!

PLAN NOW TO ATTEND

THE 1969 NATIONAL GEM AND MINERAL SHOW

Salt Lake City, Utah—June 19-20-21-22

Birthplace of the American Federation

EXHIBITS and DISPLAYS
from
Across the Nation

Vacation in
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Three National Parks—Nine National Monuments
Two National Recreation Areas

For information write to:

1105 S. 7th East, Salt Lake City, Utah 84105

SHOW—Norman Hamilton,

CONVENTION—Mary Anderson, 402 E. State Hiway,

Cooperton, Bingham Canyon, Utah 84006

The Lake Superior Agate is the Minnesota
State Gem ? ? ?

BOARD OF DIRECTORS

The GSM Board has met monthly during the fall and winter months, and has considered various financial and business aspects of the Society. Plans for the field-trips and program series have been reviewed, and an organized program of new-member recruitment has been studied.

DEATHS

Elmer Koppen, long-time member of the GSM and former editor of the Bulletin;

Frank B. Heilman, long-time member of the GSM and leader of field trips;

Mrs. Inez L. Thiel, wife of George Thiel who was one of the earliest GSM members and former head of the Geology Department, University of Minnesota;

Mrs. Esther Challman, long-time GSM member.

In Remembrance

THE MEMORIAL FUND
of the
Geological Society of Minnesota
was founded in 1969

The purpose of the fund is to carry on the objectives of the society by creating interest in the study of geology through lectures and field trips, and by calling attention to special geologic features of the state by the placing of appropriate markers at such sites.

The Society will welcome gifts from persons who may wish in this way to memorialize their friends or relatives.

Geological Society of Minnesota
Dr. Bert R. Carlson, Secretary
3034 46th Avenue South
Minneapolis, Minnesota 55406

Miss Martha Peterson, Elmer Brown, and Louis Egerichs assisted the Board in establishing The Memorial Fund -- and we extend our appreciation to them!

At the November 11, 1968, meeting, Dr. Duncan Stewart, Professor of Geology at Carleton College, substituted for Dr. F. J. Sawkins, who was in Mexico City at the International meeting of Geologists.

Dr. Stewart has a broad and impressive background in teaching and field geology, from Alaska to the Antarctic. He told of his experiences in Costa Rica where, in 1964, he spent six weeks as consultant to an engineering firm doing geological reconnaissance, and fell in love with the area.

Editorial


"Poor transmission of information is the most serious condition of all because without communications nothing will function."

The Society members have, in previous years, received "The Minnesota Geologist," our Society's bulletin; and until it can be re-activated, this newsletter is intended to keep our membership informed. It is hoped that, in the near future, Society members will volunteer to again publish "The Minnesota Geologist."

We are indebted to Miss Marion Skahen, who was editor of the bulletin and who has assisted in the production of this newsletter.

Members of the Society who wish to see "The Minnesota Geologist" continued, please contact Mrs. Mary Kimball, President, to volunteer your services!

Yes, YOU... volunteer!

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Geological Society of Minnesota
c/o Martha Peterson
3527 Pleasant Avenue
Minneapolis, Minnesota 55408

1969 MIDWEST FEDERATION FIELD TRIP CONVENTION

We hope you are planning your trip to South Dakota to the Field Trip Convention, June 12-14. The headquarters town, Murdo, on Interstate 90, has 14 motels and hotels; and there are four more motels within a 20-min. drive. The town of Kadota, on the way to the rock beds, also has numerous motels. Members interested in taking this trip should contact Mrs. Bernice Tepel (699-1793) as soon as possible!

June 12 will be devoted to meetings, such as the Editors Breakfast, the Council meeting, various seminars, registration, and a big FREE WESTERN BEEF BARBECUE. June 13 and 14, it's to alluvial gravel beds in the Badlands to look for agates, jasper, petrified wood, chalcedony, silicified corals and other fossils, and if you're lucky... FAIRBURNS. There are rocks for everybody, and more people rock-hunting together than ever before!

There will be silent auctions (please bring a specimen as part of your registration fee), displays of South Dakota material, swap sessions, slide shows, street dances, and even entertainment for the junior members.

Saturday night, there is the annual banquet. On Sunday, split into smaller groups and move west. There will be a fossil trip for cephalopods and other invertebrates; there will be trips to old mines for rose quartz, garnets, feldspar and mica minerals, spodumene, tin, and other pegmatite minerals. We may get a bulldozer for Teepee Canyon, and are hoping to find a barite area.

The weather could be on the cool side in June, so come prepared. There are plenty of gas stations, and we will have primitive sanitary facilities in the field. If you have a thermos, bring it along for coffee or water; but you will never be far from places where you can get food and water.

South Dakota cities are planning a variety of events before and after the big convention. There will be a hobby show, a rodeo, a Sioux POW WOW, a trip through a reservation, trips through the Homestake Gold Mine and the famous School of Mines Museum.

SO, LET'S GO MURDO, GSM Members!

