



THE MINNESOTA GEOLOGIST

OFFICIAL BULLETIN
OF
THE GEOLOGICAL SOCIETY OF MINNESOTA

SPRING 1961 SUMMER

Happiness is wholly independent of position,
wealth, or material possessions. It is a state
of mind which we ourselves have the power to
control - and control lies with our thinking.

GEOLOGICAL SOCIETY OF MINNESOTA

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MEETINGS: October to May inclusive, 7:30 P.M. every 2nd and 4th Monday not a holiday, at Ford Hall, University of Minnesota, 17th Avenue S. E. and Washington Avenue. Visitors welcome.

FIELD TRIPS: May until October inclusive.

ANNUAL DUES: Residents in a 50 mile radius of the Twin Cities \$ 5.00 plus \$ 2.00 additional for husband, wife, or dependent family members. For students and non-residents, \$ 2.00.

AFFILIATE MEMBER

MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES

and

THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES

* Deceased

FIELD TRIP

NOTICES

FIELD TRIPS

GEOLOGICAL SOCIETY OF MINNESOTA

- DATE: Sunday, May 21, 1961.
- LEADERS: Dr. Reinking and Joseph Zalusky.
- LOCATION: Osseo sand pits. About $1\frac{1}{2}$ miles west of Highway 52 on No. 109. West as far as you can go, then turn right and left about $\frac{1}{2}$ mile to west end of pits.
- PURPOSE: To study the geology of the moraines and examine and collect many specimens of igneous and sedimentary rocks, especially agates.
- TRANSPORTATION: By private cars. Meet at Highway 109 and No. 52 just west of No. 52, off highway, at 9:00 A.M. After this field trip we shall leave the pits at 1 P.M. and drive east to Lyndale Avenue north and Hwy 169. Turn north (left) to 8816 No. Lyndale and have a picnic lunch at the cabin of the Isaac Walton League. Same place where we had the meeting last fall. Bring lunch and coffee. We shall look for more sand concretions and have a description of these peculiar formations and their origin by Dr. Reinking. If you can take another person in your car or want transportation, call Havills, JU 8-7136.
- DATE: Sunday, June 4, 1961.
- LEADER: Gerald Ahlquist, St. Cloud Teachers College.
- LOCATION: Central Minnesota, Mille Lacs, and possibly Moose Lake.
- PURPOSE: To study the glacial drift of central Minnesota. Also moraines, outwash plains and glacial lakes around Moose Lake, Barnum, Mahtowa and St. Louis River, with emphasis on Glacial Lake Duluth, its origin and demise.
- TRANSPORTATION: By bus. Meet at bus station in Minneapolis at 7:30 A.M. St. Paul bus depot at 8:00 A.M. Return about 7:00 P.M. For reservations call the Havills, JU 8-7136.

TENTATIVE FIELD TRIPS.

- | | |
|----------------------------------|--------------------------------------|
| July 14, 15, 16 Central Iowa. | Sept. 16, 17, Southeast Minnesota. |
| July 30, St. Croix Valley. | Oct. 1, Barron & Wausau Wis. |
| Aug. 4, 5, 6, Northern Michigan. | Oct. 13, 14, 15, Western Wisconsin. |
| Aug. 13 or 20, Picnic at Kings. | Another trip may be planned in Sept. |

FULL DETAILS LATER.

MIDWEST FEDERATION
GEMS AND MINERALS FAIR
AND 21ST ANNUAL CONVENTION
SAGINAW COUNTY FAIR GROUNDS, SAGINAW, MICHIGAN
JUNE 29, 30, July 1, 2, 1961

The Tri-County Rocks and Minerals Society, Inc. of Saginaw, Bay and Midland Counties, Michigan, extend a most hearty invitation to the 94 member clubs of the Midwest Federation of Mineralogical and Geological Societies to participate in the 1961 Gems and Minerals Fair. Fifty thousand square feet of floor space have been reserved for your use with an additional 8,000 square feet to be held in reserve. Five buildings for sure, and a sixth in reserve. Will we need this much space? Yes, if you, the member societies and the individual members of the Federation, support the Federation and your annual show.

This is your chance to show the Federation that yours is an active society. This is your chance to prove to yourselves that it's fun to belong, to make new friends, to meet old friends, to see the best of the Midwest collections on display. This is a chance for bulletin editors to get together, to sit down at the annual banquet to a wonderful meal, and top it off with a most distinguished and famous "Mid-Westerner" as guest speaker - the fabulous June Zeitner of Mission, South Dakota.

Send in your reservations as soon as possible to the following chairmen:

Society and Individual Exhibits

Donald L. Sommerfield
1423 North Carolina
Saginaw, Mich.

Commercial Space

Doris L. Sprague
11307 Swan Creek Road
Rt. 5, Saginaw, Mich.

Junior Exhibits

William Forbes
403 Tittabawassee
Zilwaukee, Mich.

Program

Scott Wilson
297 Donoghue Beach
Bay City, Mich.

Banquet

Doris L. Sprague
11307 Swan Creek Road
Rt. 5, Saginaw, Mich.

Registration

Cornelia DeMerritt
1913 Essex St.,
Saginaw, Mich.

Hospitality

Cecile Johns
4484 King Road
Saginaw, Mich.

Housing

Ellen E. Smith
1413 Sixth St.
Bay City, Mich.

FIELD TRIP

JUNE 17-29-1961.

GEOLOGICAL SOCIETY OF MINNESOTA

"ALL"
ABOARD!!

St. Paul	8
Minneapolis	130
St. 7 Montevideo	68
U. S. 212 Watertown	118
U. S. 212 Redfield	
U. S. 212 Jct. St. 45	24
St. 45 Miller	73
U. S. 14 Pierre	<u>421</u>



Saturday night, June 17 at Pierre.

U. S. 14 Philip	89
U. S. 14 Wall	30
U. S. 14 Rapid City	56
St. 79 Hermosa	21
St. 36 Jct. U. S. 16	11
U. S. 16 Custer	<u>18</u>
	<u>225</u>

Sunday night, June 18 at Custer.

U. S. 385 HotSprings	33
St. 79 Nebraska line	37
St. 19 Jct. U. S. 20	
U. S. 20 Crawford	
Fort Robinson Museum	84
Return to Custer	<u>154</u>
	<u>308</u>

Monday night, June 19 at Custer.

U. S. 16 Hermosa	29
St. 79 Hot Springs	43
County road	5
U. S. 16 Custer	<u>108</u>
	<u>185</u>

Geologic log and mica mins.

Tuesday night, June 20 at Custer.

U. S. 385 Hill City	18
Lead	41
U. S. 385 Jct. 14	12
	5
U. S. 14 Spearfish	<u>9</u>
	<u>85</u>

Wednesday night, June 21 at Spearfish.

U. S. 85 Belle Fourche	11
U. S. 212 Jct. St. 79	23
St. 79 Sturgis	
& Bear Butte	24
U. S. 14 Spearfish	<u>24</u>
	<u>82</u>

Thursday night, June 22 at Spearfish.

U. S. 14 Devils Tower	58
U. S. 14 Spearfish	58
U. S. 14 Jct. 385	
Spearfish Canyon	21
U. S. 85 Newcastle	44
U. S. 16 Custer	<u>37</u>
	218

Friday night, June 23 at Custer.

St. 89 Sylvan Lake	6
St. 87 Jct. U. S. 16	
Needles Highway	13
U. S. 16 Mt. Rushmore	22
St. Road from	
Keystone to U. S. 385	20
U. S. 385 Custer	<u>11</u>
	66

Saturday night, June 24 at Custer.

U. S. 385 Hot Springs	33
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Sunday night, June 25 at Hot Springs.
Church, hot baths, loaf, etc.

U. S. 385 St. 87	14
St. 87 U. S. 16	17
U. S. 16 Rapid City	<u>49</u>
	80

School of Mines - Dakota hogback.

Monday night, June 26 at Rapid City.

U. S. 16 Wall	56
U. S. 16A Jct. 16	51
U. S. 16 Kadoka	<u>7</u>
	114

Tuesday night, June 27 at Kadoka.

ALTERNATE ROUTE FOR TUESDAY

St. 40 Farmingdale	20
St. 40 Scenic	16
St. 40 Interior	32
St. 40 Cedar Pass	2
St. 40 & U. S. 16 Kadoka	<u>27</u>
	97

Badlands.

Tuesday night, June 27 at Kadoka.

U. S. 16 Mitchell	217
U. S. 16 Jct. 38	12
St. 38 Jct. U. S. 77	<u>56</u>
	285

Wednesday night, June 28 at Sioux Falls.

U. S. 77 Dell Rapids	16
U. S. 77 Jct. St. 34	12
St. 34 Pipestone	23
St. 23 Florence	23
St. 23 Marshall	14
St. 19 Redwood Falls	
Jct. U. S. 169	101
U. S. 169 Shakopee	26
U. S. 169 Jct. 212	
Jct. St. 5	9
St. 5 St. Paul	<u>27</u>
	251

Thursday night, June 29 at home.

HOME - SWEET - HOME

HIGHPOINTS OF INTEREST

BLACK HILLS FIELD TRIP

JUNE 17-29-1961.

Leaders: Carlson & Koppen.



1. Pine Ridge escarpment in Nebraska.
2. Hogbacks surrounding the Black Hills uplift.
3. Pegmatites and granite core of the southeastern Hills.
4. Mica and beryl mines.
5. Gold mine and refinery.
6. Spearfish Canyon.
7. Devils Tower.
8. Church & Hot Springs baths on Sunday.
9. Passion Play (optional).
10. Mineral and Historical Museums.
11. Badlands.
12. Visit to the quartzite area in southeastern South Dakota.



As of this date, May 14th, there are 32 reservations made for the Black Hills trip. This leaves only six more that can be accepted.

If you would like to make this bus trip with us, whether you are a member of the Society or not, please call Dr. Bert Carlson, PA 4-1486, and make your reservations with him. All sleeping reservations will be made by him also.

You will notice from the trip mileage log that once we reach the Hills most of the trips are rather short and there will be lots of time for sightseeing, study and exploration. Talks will be given on the geology of the Black Hills, the Badlands, pegmatites and various other features.

GEOLOGY AS POETRY

By chance I came upon a treasure, a slender book of poems, "THIS IS MINNESOTA". They were written by a Minnesota woman, Betty Bridgman. Sensing the meaning behind the fact Mrs. Bridgman writes as a lover of nature and life, and as one aware of the part geology plays here and now. Her poems breathe out the fragrance of Minnesota life and land. The overtones of geology are transmuted into poetry.

With the author's permission I am quoting several of these poems.

MINNESOTA SPRING

My days have gone downstream on several rivers.
I walk their banks and watch the winter go,
My winter days above the lodge of beavers,
Where fox or pheasant track the hillside snow.

My spring, when it is ready, comes by valley,
Comes north on several rivers, flooding wide,
Taking the towns, another harbor daily
Another island green beneath the tide.

Shouldering old moraines and scouring deeper,
My rivers guide the flyways from the south,
And lay a course for wind-borne vapor,
While all my days float out of sight like froth.

Deeper the currents cut the glacial cover,
Widen the valleys, roll the boulders down -
Landmarks the birds will need when they go over,
Landmarks for Spring to reach my river town.

LOOK AT YOUR LAKE

A lake is for a long time,

But not forever.

Let a chip break from the rim,

It turns to river.

Or let aquatic plants take hold,

They strew their feet

With year and year of mounting mould

Till both ends meet.

A lake is for a period,

For present tense,

Then flattens into marshy sod

For pasture fence,

And miles the whitecaps marched across

Are farmland now.

Wild duck will count it for a loss,

Though gain to cow.

Look at your sunlit lake this morning,

Aquamarine.

It's plannng even now for turning

Blue to green.

Another book I have found intensely interesting is the recent reprint of "NARRATIVE OF AN EXPEDITION TO THE SOURCE OF ST. PETER'S RIVER". In 1823 the U. S. government sent an expedition under Major H. Long with instructions to make a special study of the country along the St. Peter's river (now the Minnesota) and the Red River (of the North). The small party went by horseback from Philadelphia to the Mississippi and, still on horseback, went along that river and the St. Peter's and Red to Lake Winnipeg. They returned by canoe through the northern wilderness to Fort William, then by rowboat along the north shore of Lake Superior to the Sault St. Marie. In the party was a wide-awake young geologist, William H. Keating. He compiled the report of the trip. It is quite a thrill to see that familiar country through his eyes, observing it so many years ago.

How strange and thrilling this poem would have been to him.

A GEOLOGICAL WALK

We followed the path a glacier took
Over a meadow, down a brook,
and saw its scratches on every stone.
One great boulder, overgrown,
had come south from Saskatchewan.
No telling where the rest had gone.

We sat for lunch on a windy plain
on top of a terminal moraine,
on top of a miscellaneous mass
of dirt and rocks subdued by grass,
dour travelers with no relation
except their means of transportation.

Out of a field of ice-borne stones
we chose two smooth striated ones
high on the sides of a ravine,
tourists of the Pleistocene,
and brought them home. Here they will stop
till the next glacier picks them up.

"Tourists of the Pleistocene"! Enchanting phrase. One hundred and forty years of growing knowledge lie between that phrase and the young geologist's wonder as to whence and how the boulders of "primitive" rock from no visible source came to be scattered over the land. "Tourists of the Pleistocene," indeed.

Helen James Sommers.

This is Minnesota - by Betty Bridgman - North Central Publishing Co., St. Paul. Narrative of an Expedition to the Source of St. Peter's River, by William H. Keating - Ross and Harris, Inc., Mpls. 1959.

GEOLOGICAL SOCIETY OF MINNESOTA

TREASURERS REPORT

RECEIPTS

Dues to April 25-1961	\$ 471.00	
Taylor's Falls Trip	6.71	
Banquet Balance	<u>25.60</u>	
Total Receipts	\$ 503.31	\$ 503.31

DISBURSEMENTS

Postage, Envelopes, Supplies	\$ 80.90	
Lecturers	252.00	
Dues Midwest Federation	10.65	
Rent for Club House	<u>10.00</u>	
Total disbursements	\$ 353.55	\$ 353.55
Cash on hand balance		149.76
Checking Account		<u>112.71</u>
Total		\$ 262.47
Transferred from checking to savings acct. 150.00		<u>150.00</u>
Balance in checking account		<u>112.47</u>

PLAQUE FUND

FARMERS AND MECHANICS BANK

RECEIPTS

On deposit Jan. 12-1960	\$ 1412.07
Donation by friend	100.00
Interest to Sept. 21-1960	<u>18.08</u>
Total Receipts	\$ 1530.15

DISBURSEMENTS

Four plaques	\$ 1368.00	\$ 1368.00
Balance		<u>162.15</u>
Transferred from checking acct.		<u>150.00</u>
Total		\$ 312.15

N. B. The four plaques were paid for by the Society and have nothing to do with those from the Hill Foundation. Total paid up members 95.

A. P. Rickmire,
Treasurer.

Mrs. & Mrs. Hal E. McClintock

2174 Strowell Ave

St. Paul 8

Minn

