



THE MINNESOTA GEOLOGIST

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OF
THE GEOLOGICAL SOCIETY OF MINNESOTA

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" THE ROLLING ROCK LEAVES ITS SCRATCHES ON THE MOUNTAIN ; THE RIVER, ITS CHANNELS IN THE SOIL ; THE ANIMAL, ITS BONES IN THE STRATUM ; THE FERN AND LEAF, THEIR MODEST EPITAPH IN THE COAL, --- NOT A FOOTSTEP IN THE SNOW, OR ALONG THE GROUND, BUT PRINTS IN CHARACTERS MORE OR LESS LASTING A MAP OF ITS MARCH".

Alexander Von Humboldt.

(1769 - 1859)

G E O L O G I C A L S O C I E T Y O F M I N N E S O T A

EDITORS

Loretta E. and Elmer L. Koppen
3376 Brunswick Ave.,
Minneapolis 16, Minn.

The Society is devoted to the study of GEOLOGY,
MINERALOGY, and PALEONTOLOGY for their cultural value.

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MEETINGS : October to May inclusive, 7:45 P. M. every Monday
not a holiday, auditorium, Minnesota Museum of Natural History,
University of Minnesota, 17th Ave., S. E. and University Avenue.
Visitors welcome.

FIELD TRIPS : May until October inclusive.

ANNUAL DUES : Residents of Hennepin and Ramsey counties \$ 3.00
plus \$ 1.00 additional for husband, wife, or dependent family
members ; for students and non-residents, \$ 1.00.

MEMBER

MIDWEST FEDERATION OF MINERALOGICAL & GEOLOGICAL SOCIETIES

* Deceased

EDITORIAL

WISCONSIN FIELD TRIP - Mr. George Rickert gave us a preview of the contemplated Wisconsin Field Trip itinerary and we can say without fear of serious contradiction that this will be one of the most interesting field trips to date. Wisconsin is noted for its drumlin and kettle moraine topography. You will also travel through the unglaciated area. You will visit the lead and zinc mines. Coral Beach (a collectors paradise) near Algoma and Sturgeon Bay and Wyalusing State Park with its Indian Mounds. Nelson Dewey Memorial Park near Cassville embraces some of the most attractive geological features along the Upper Mississippi. On the return trip you will have an excellent opportunity to study the geology of the well known Dells of Wisconsin.

ELECTION OF OFFICERS - At the annual dinner meeting, April 18, Merle Harris, Helene M. Becker and Loretta E. Koppen were re-elected as directors for another two years. J. Orval Engen was elected to succeed past-president Dr. Edward H. Mandell who declined the nomination to succeed himself. Since the election the directors have met and elected Merle Harris, President, Loretta Koppen vice-president, Hertha Chapin, secretary, and Mary Lupient treasurer. The new officers with your help look forward to another year of advancement in the growth of our society.

PAT ON THE BACK - In the April issue of "Mines Magazine" published in Denver Colo. for mining engineers and the mining industry we found the following tribute to "The Minnesota Geologist".

"Official Bulletin of the Geological Society of Minnesota,

First Quarter, 10 pages. Free to members.

This little publication, though not pretentious in appearance, always manages to present one or two articles of real interest in every issue.

In addition to the announcements and notices which are of particular interest to Society members, this issue contains an article simply entitled "Time", written by Dr. Edward H. Mandell. This short piece is carefully thought out and beautifully written, the kind of thing one would expect to find in a nationally known magazine of the "slick paper" variety.

Another very interesting feature in this issue is the conclusion of a three-part article entitled, "The Search for Uranium." With the accent on facts, this article, which offers prospecting advice as well as information on the location of deposits, is both timely and valuable.

"The Minnesota Geologist," without fanfare or fancy format, remains one of the finest geological publications in the field."

NEWS - The recently publicized geological find in Rochester Minn. of a bone of a Pleistocene horse is credited to Dana Rogers, one of our society members. The metatarsal bone was unearthed in a building excavation at a depth of 35 feet and 8 feet above bed rock. It is believed to be one of the most important discoveries in recent years and is the first such bone found in Minnesota.

IMPORTANT ANNOUNCEMENT - Just before going to press we learned that there are some bus seats still available for the Wisconsin field trip. It is imperative however, that you notify Geo. Rickert or Chas. H. Preston immediately if you plan to take this trip. The leaders have to complete final arrangements with hotel and resort owners and with speakers and park directors no later than the first week in June. The approximate cost of the trip including bus fare should not exceed \$ 75.00.

BULLETIN BOARD

TENTATIVE LIST OF FIELD TRIPS

- June 4 ---- Geological formations and faults at Hastings Minn.
Leader : Linda J. Bennit.
- June 18 ---- Anoka Sand Plains Area.
Leader : J. Zumberge.
- June 24 ---- Wisconsin Field Trip and National Federation Convention.
July 2 Leaders : Chas. H. Preston and Geo. A. Rickert.
- July 16 ---- Lake Pepin Area.
Leader : Elmer H. Brown.
- July 30 ---- Picnic at Noerenbergs Lake Minnetonka Estate.
- Aug. 13 ---- Northfield, Faribault and Owatonna Minn.
Leader : Cynthia Gilbert.
- Aug. 27 ---- Gooseberry Falls - Dedication of Geological Plaque.
- Sept. 10 --- Study of Cambrian Geology near Hudson Wis.
Leader : Bob Berg.
- Sept. 24 --- Denham Minn. Area.
Leaders : Mr. & Mrs. L. W. King.
- Oct. 8 ----- Barron Hills Wis. Area.
Leader : Hal E. McWathy.
- Oct. 22 ---- Lake Traverse and Ortonville Area.
Leaders : Elsie Hinchley & Elmer H. Brown.

E. B. Eliason,
Field Trips Chairman.

Editors Note : The following proposed five year plan together with an explanation of why a five year plan on the next page are from the November 1948 issue of Earth Science Digest, Revere Mass.

A PROPOSED
FIVE YEAR PROMOTIONAL PLAN
FOR THE
ADVANCEMENT OF GEOLOGIC
EDUCATION IN AMERICA
by
Bon Hur Wilson
Joliet Junior College

- 1st Year : A COMPREHENSIVE SURVEY of the extent and current pedagogical practice of GEOLOGIC EDUCATION IN AMERICA, to be made under competent auspices, together with a study of and agreement on a plan of organization ; the selection of committees and chairman, and the recruiting of promotional personnel looking toward furtherance of the Five Year Plan.
- 2nd Year : AN EVALUATION OF SURVEY and critical appraisal of entire situation, attempting to account for the general absence of geologic education and possible methods of reversing such trends.
- 3rd Year : Development of a PROMOTIONAL PLAN for the ADVANCEMENT OF GEOLOGIC EDUCATION and determination of all possible methods and means for putting them into practice. Setting up office facilities with permanent secretary in charge.
- 4th Year : Intensive campaign of PUBLICITY and PROMOTION, for carrying out the promulgated PLANS. Establishment of statistical survey for determining progress made.
- 5th Year : Continuation of promotion and analytical survey looking towards a second Five Year Plan to follow. Publication of comprehensive report on the progress made, with recommendations for future action.



The question may arise in the minds of many as to why we should pursue a FIVE YEAR PLAN, in the promotion of geologic education in America. To some this may seem like a very long time, - too long to wait for results.

As a matter of fact, this period will be altogether too short to accomplish all of the ends and objectives we are seeking.

The mere physical organization of committees and sub-committees is a matter which will move very slowly. All this will take planning and correspondence which cannot be done in a day. Decisions will have to be made and leadership recruited, all of which will require much time.

To promote a demand for geologic education, without the teaching facilities to handle it would be of no avail, and with poor and inadequate instruction there would surely be a "Kick back" which would do the movement no good. The matter of preparing and building up a teaching force alone would require four or five years of college education, even though we were immediately ready to begin.

By this, we do not mean that some, indeed much, advancement cannot be made as we go along with the plan. Even without any planning or concerted effort, whatever, I dare say that just the natural growth of interest in the subject will be considerable and will accelerate as the years go by - just on the principle that you "can't keep a good thing down." Without doubt, should our movement get under way and off to a good start, just the publicity and the enthusiasm engendered hereby will augment this natural progress to a greater degree than we anticipate.

What we are vitally concerned with now, however, is whether we are going to attack this problem with a great concerted effort, all forces pulling together and moving forward steadily on a broad front, or whether we each in our own more or less feeble way will be content to do what we can, and trust largely to wishful thinking to obtain our desired results.

In this, we are throwing the matter open for debate and earnestly invite discussion or correspondence on any phase of the question from any source whatsoever, which may be addressed to The Editor, The Minnesota Geologist or the writer of the present article, who takes no particular credit for the idea, since he knows it has long been on the minds of many other friends of geologic education.



The chief purpose of our Society is to emphasize the cultural value of geology. The following poem illustrates this purpose better than we can define it. This poem is reproduced, not from a technical magazine, but from a business man's magazine, "Dun's Review". We have printed all geologic terms and references in caps for the purpose of emphasis. For one with even a superficial knowledge of geology the poem has considerable added interest. Thus geology aids our comprehension of the Poet's thought and adds to our understanding and pleasure in reading it. The Poet also evidently had a knowledge of geology.

L. E. K.

Boring vertically through TIME AND ROCK
We sample A MILLION YEARS OF EARTH'S ADVENTURES
And with the jeweled fang of steel unlock
The secrets written in the HEART OF STONE
And learn to-day what TIME has always known
And whether a mining syndicate's debentures
Are worth their fractions in the daily paper.
The hollow tooth reveals its glinting core
To men who read its SCIENTIFIC LORE
Like editors before the ticker tape
With news of fire and flood and every earthly caper
BEFORE HOT MEADOWS SHRANK BENEATH THE ICE
And HILL AND VALLEY WRINKLED INTO SHAPE.
But we were probing down for IRON ORE:
Well, there it is, wedged in between the GIBBS
At fifteen hundred feet, and the GRANITE FLOOR
TRIASSIC is the hour upon the clock.
The Vein IS HEMATITE, and twelve feet wide
And far removed from blasting powder's knock.
There's many a SHELF OF LIMESTONE to be pried
As we sink an angled shaft through CAMBRIAN TIME
Some SEVENTY MILLION YEARS, and it will cost
One hundred thousand dollars,—just a dime
For each millennium. If risked and lost
In a war of metals come to sudden end
Why worry, since men in their malice spend
All gold and silver first, and iron last
And when the weight of ingots has been hurled
Over the roofs of foemen round the world
The children of the dawn will stand aghast
At the cost per ton of final victory,
At the price per death for every warrior slain.
Yet, where the PIEDMONT rises from THE SEA
The drills will burrow through THE ANCIENT CRUST
For treasures of to-morrow that remain
Hidden in EARTH'S DEEP HEART, WHILE SNOW AND RAIN
Devour bits of shrapnel in slow rust.



CONVENTION TOPICS

Plans have been completed for the Third Annual Convention of the American Federation of Mineralogical Societies to be held in Milwaukee June 28-29-30. Committees have been busily engaged, giving of their time and expense in preparation for that event. Two Twin City men, Hazen Perry of our own Society and the Minnesota Mineral Club and William Bingham of The Minnesota Mineral Club head the committees on exhibits and will have without doubt the best displays yet presented at any national convention. And our Editor, Loretta Koppen, is chairman of Society Publications display. A good list of speakers will present topics of interest to us amateurs.

This is the first time that our Mid-West Federation will have been hosts to the National Federation, and it is hoped that we may be royal hosts to those in attendance from the east and far west.

A field trip of one week (and two week ends) is being arranged for our Society, giving us an opportunity to study the geology of our sister state at first hand under the leadership of Wisconsin geologists. Many will go by private cars or by train. Better make a reservation at once. Lets plan to meet in Milwaukee.

Chas. H. Preston,
President Mid-West Federation.

TENTATIVE CONVENTION PROGRAM

WEDNESDAY, JUNE 28 -

Official opening and registration.
Luncheon.

2:00 P. M. Regional Federation meetings and American Federation meeting.
7:30 P. M. General meetings.

THURSDAY, JUNE 29 -

Contests, Trading Post, and Midwest business meetings.
12:30 P. M. Federation luncheon.
2:00 P. M. Mineralogy Division, direction of Dr. Richard M. Pearl.
Society Publications Division, direction Loretta B. Koppen.
Paleontology Division, direction Dr. Gilbert Reasch.
7:30 P. M. Lecture meetings. Dr. W. F. Beem, state geologist and
Dr. J. D. Willems.

FRIDAY, JUNE 30 -

Trading Post and Auction Luncheon.
2:00 P. M. Lapidary Division. Mr. Denton will supply western
representation and Mr. Wm. Bingham, Minneapolis
program of gem cutting demonstrations.
Jewelry Division. Ray Mitchell, Chicago, mechanical
phases in jewelry making. Emil Kronquist, Milwaukee,
design in jewelry.
Geology Division, direction of Chas. H. Preston,
Midwest Federation.
7:30 P. M. Convention banquet.

Special trips and tours have been planned by the trips
committee for each day of the convention.



The Third Annual National Convention
American Federation of Mineralogical Societies

Midwest Federation Host
Milwaukee, Wisconsin -- June 28, 29, 30, 1950

OFFICIAL ROSTER OF CONVENTION PERSONNEL

AMERICAN FEDERATION:

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Don Major, Vice-President
Tenino, Washington
Junius J. Hayes, Secretary
Salt Lake City, Utah
Oscar A. Anderson, Treasurer
Bettendorf, Iowa
Ben Hur Wilson, Historian
Joliet, Illinois

MIDWEST FEDERATION:

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Milwaukee, Wisconsin
John F. Mihalcic, Secretary
Detroit, Michigan
Hubert W. Ward, Treasurer
Des Moines, Iowa
Ben Hur Wilson, Historian
Joliet, Illinois

CONVENTION COMMITTEE

James O. Montague, General Chairman
1026 E. Pleasant Street, Milwaukee 2, Wisconsin
(Mrs.) Oriel Grand-Girard, Secretary Advisory Committee
817 Mulford Street, Evanston, Illinois
Carl Hub, W. G. S. Convention Treasurer
1305 N. 44th Street, Milwaukee 8, Wisconsin
Ben Hur Wilson, Convention Planning Co-ordinator
Editor Pre-Convention Issue of "Midwest Geologist"
406 Grover Street, Joliet Illinois
Herbert F. Grand-Girard, Publicity Chairman
817 Mulford Street, Evanston, Illinois
John F. Mihalcic, Program Chairman
16543 Appoline, Detroit 35, Michigan
William J. Bingham, Chairman Commercial Exhibits
2100 Arcade Street, St. Paul 6, Minnesota
H. T. Perry, Chairman Non-Commercial Exhibits
2501 Girard Avenue South, Minneapolis 5, Minn.
(Mrs.) Loretta Koppen, Chairman Society Bulletin Display
3376 Brunswick Avenue, Minneapolis 16 Minnesota
H. R. Straight, Chairman Auction Committee
Adel, Iowa Auction Material to be Sent Direct to
Herman O. Zander, Assistant Chairman Auction Committee
849 N. 10th Street, Milwaukee 3, Wisconsin
(Miss) Marjory Scanlon, Chairman, Favors and Prizes
8403 S. Langley Avenue, Chicago 19, Illinois
Arthur O. Gardner, Field Trip Chairman
3260 N. Holton Street, Milwaukee 12, Wisconsin
Andrew Haynes, President W. G. S. (Local Host Society)
Manager, "Ye Olde Trading Post" (Exchanges only)
173 N. 73rd Street, Milwaukee 13, Wisconsin

Convention Exhibits and Meetings Held at :

MILWAUKEE PUBLIC AUDITORIUM
SCHROEDER HOTEL, (HEADQUARTERS)



WILMA MONSEUD
5235 DUFONT AVE. N.
MINNEAPOLIS 12, MINN.