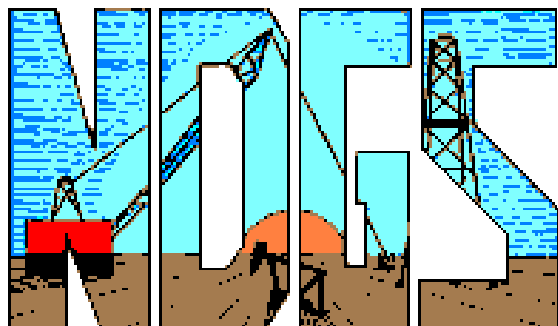


NORTH DAKOTA GEOLOGICAL SOCIETY

P.O. Box 82, Bismarck, ND 58502

<http://ndgeosociety.tripod.com/homepage.htm>



March 2014 GEOLOGRAM

President: Timothy Nesheim **V.P.:** Ned Kruger
Secretary/Treasurer: Jonathon Ellingson

March Meeting Announcement

Please join us over lunchtime for the March meeting of the North Dakota Geological Society. We will have a short business meeting to be followed by this month's speakers from Golder Associates.

Date & Time: Noon, Tuesday, March 11th, 2014

Location: DMR/Oil and Gas Division Conference Room – 1000 E. Calgary Ave. (west side, lower level)

Speakers: Ashley A. Breiland, Jacqueline M. Doroff, and Jonathan B. Ellingson – Golder Associates Inc.

Topic: Aggregate Resource Mapping – Sand, Gravel, and Scoria Mapping for Oil & Gas Industry Use in Western ND.

With the steady increase of activity in the Williston Basin due to the Bakken oil boom, the need for aggregate resources has been on the rise. From access roads and highways to oil pads, construction aggregate is a key component to our infrastructure in North Dakota. Both glacial and fluvial processes, overtime, have provided the state with abundant sand and gravel resources, however proximity to the market and quality of material are always a challenge. With the lack of quality stone in southwestern North Dakota, Scoria has also become a very important resource for companies to explore and extract. Through the use of Geographic Information Systems (GIS), digital elevation models, topographic maps, aerial analyses, water well stratigraphic analysis, soil survey data, vegetation types, and field exploration, new aggregate resources are being located to meet the increased demand in the oil and gas fields in western North Dakota as well as throughout the state.

Cost: \$5 – Includes pizza and pop lunch.

Minutes of the meeting held on February 18, 2014

Seventeen society members were in attendance for the February meeting.

The floor was opened for discussion on adding funds to the society's existing scholarship endowment or the possibility of starting a new endowment with the ability to rotate scholarships between the various North Dakota institutions with geology/earth science programs. Ed Murphy commented that the North Dakota Petroleum Council is already offering nine \$2000 scholarships for the 2014-15 academic year to geology related undergraduate majors and alternatively, we might consider increasing our awards contribution to the North Dakota Science Fair Association, or otherwise support students at the high school level. We currently contribute two \$50 awards for the top junior and senior level, earth science related projects. No action was taken on this discussion, which will be held over for future meetings.

Tim Nesheim discussed a recent visit from Elmo Brown, president of Rocky Mountain Section, AAPG. Elmo is interested in building a closer relationship with the various geological societies within the section, which includes the North Dakota Geological Society. Amongst several things discussed, Elmo encouraged our participation in a Teacher of the Year award sponsored by the AAPG, through nominating a teacher (middle to high school level) from our state for this recognition.

A financial report was not given at the meeting, but is included within this geologram.

The business meeting concluded at which time Erik Brevik, Professor of Geology and Soils and chair of the Department of Natural Sciences at Dickinson State University, presented at talk on the impact of camping on soil properties based on research conducted at the Strawberry Lake campground.

Upcoming meeting dates – location – speaker

April 8: Barr Engineering (Lunch meeting) - Jason Westbrook, Barr Engineering

May 14*: Radisson Hotel Bismarck – AAPG Distinguish Lecturer

No meetings scheduled for June, July, or August

September 9*: Sertoma Park – Annual steak-fry picnic

* Dates tentative
