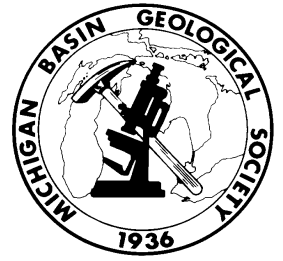




ON THE ROCKS



A Newsletter of the Michigan Basin Geological Society

2007-2008 Number 6

www.mbgs.org

February 2008

EVENTS

February 13, 2008: MBGS meeting will be at Michigan State University, Natural Science Building at 7:00 pm. The speaker is Jim Heinzman presenting “**Is Geothermal The Answer to Global Warming**”. See talk details and location information below.

Michigan Basin Geological Society Dues: This will be the last newsletter sent to persons who have not renewed their membership. Please take a moment to update your information and mail in your 2007-2008 dues. Thank you.

Upcoming field trips:

Exciting field trips are currently being planned for 2008 and 2009. Pack your rock hammers and plan on joining us.

Niagara Gorge, Niagara Falls, NY, May 2-4, 2008

Interested Leader: Dr. Brett Carlton, University of Cleveland

Saturday: Hike into gorge and view power plant road cut to discuss Niagaran stratigraphy; Saturday evening lecture at winery: to be determined.

Sunday: Hike into 18 Mile Creek to review Devonian stratigraphy.

Southern Indiana Karst Stratigraphy and Spelunking in August 2008

Saturday: Spelunk caves in Bedford IN area with Eastern Indiana Grotto guides.

Sunday: Return trip visits of outcrops to discuss stratigraphy and karst features. Leader to be determined.

Copper Country, Houghton, MI in September 2008

4 day trip to include mine tours, rock collecting, mineral museum tour and evening lectures. Leaders and lecturers to include Bill Haller, Dr. Bill Rose and Dr. Larry Lankton.

Yellowstone National Park, WY – Planned for 2009. We are requesting recommendations for leaders and lecturers for this trip.

Michigan Universities Geology Departments Lecture Series:

Don't forget to attend your local university lecture series. See link below for this years lectures. Send us an email if you attend a particularly interesting talk.

Central Michigan University: <http://www.cst.cmich.edu/units/gel/NEW/upcoming.htm>

Michigan State University: http://geology.msu.edu/SpeakAllSS_07.html

Michigan Technological University: <http://www.geo.mtu.edu/announcements.html>

University of Michigan: http://www.lsa.umich.edu/geo/highlights/smith_lecture/.

Western Michigan University <http://www.geology.wmich.edu/seminar.htm>

2007-2008 MBGS Officers

The Executive Committee meeting minutes are available on our website at www.mbgs.org

PRESIDENT:

MARK NIDA,

LEG, Public Service Commission
P.O. Box 30221, Lansing MI 48909
517-241-6136, fax 517-241-6121, nidam@michigan.gov

VICE PRESIDENT:

EMANUAL (EZ) MANOS

Detroit Salt Mine
2164 E. Allen Road, Howell, MI
313-841-5144, fax 313-841-0466, ezmanos@detroitssalt.com

SECRETARY:

JENNIFER JENNINGS

Michigan Department of Environmental Quality
P.O. Box 30256
Lansing, MI 48909
517-335-0432 jenningsj@michigan.gov

TREASURER & PUBLICATIONS:

TOM HOANE FMFM, DNR

P.O. Box 30452, Lansing, MI 48909-7952
Bus 517-241-3769, fax 517-373-2443 hoanet@michigan.gov

BUSINESS MANAGER:

TOM GODBOLD OGS, DEQ

P.O. Box 30256, Lansing, MI 48909-7756
Ph: 517-241-1545, Fax 517-241-1595
godboldt@michigan.gov

PAST-PRESIDENT:

ROBERT REYNOLDS,

Reynolds Geological, LLC
509 Hall Blvd., Mason, MI 48854
517-676-9936, fax 517-676-8169, reynoldsgeo@voyager.net

CO-FIELDTRIP DIRECTORS:

MARK WOLLENSAK, CPG

Hamp, Mathews & Assoc, Inc.
15266 Ann Drive, Bath, MI 48808
Ph: 517-641-7333 Fax 517-641-7337
Cell 517-719-8321 wollensak@voyager.net

and

LEONARD ESPINOSA

Ph: 517-349-1917
espinosl@sbcglobal.net

NEWSLETTER EDITOR:

ARLENE ANDERSON-VINCENT

Malcolm Pirnie
101 S. Washington Square Suite 400, Lansing, MI 48933
Ph: 517-324-5052, Fax 517-337-0417 aanderson@pirnie.com

ELECTRONIC PUBLICATIONS:

MARK WOLLENSAK

AAPG DELEGATES:

William Stelzer,

920 Long Lake Blvd., Suite 12
Lansing, MI 48911, 517-694-4770
stelzrb@aol.com

and

Dr. WILLIAM, HARRISON,

Western Michigan University
616-387-8691
william.harrison_iii@wmich.edu

MEETING CANCELLATION POLICY

Monthly meetings will be automatically cancelled whenever the National Weather Service issues a "Storm Warning" for the Lansing area. If driving conditions are poor but a "Warning" has not been issued please contact any member of the Executive Committee for the status of the meeting.

MICHIGAN BASIN GEOLOGICAL SOCIETY PUBLICATIONS

Historical CD #1: Nine out-of-print publications from 1949 through 1965 and 1998, 2000, \$15

Historical CD #2: Four out-of-print publications from 1947, 1959, 1983 and 1991, 2001, \$15

Historical CD #3: Six out-of-print publications from 1948, 1952, 1990 - 1995, 2001, \$15

Historical CD #4: Six out-of-print publications from 1957, 1958, 1961, 1967, 1968 and 1970, 2004, \$15

Historical CD #5: Five out-of-print publications from 1971, 1989, 2001, and Oil & Gas Fields Vol. 1 & 2, 1969 & 1992, 2006, \$50

(NEW) Historical CD #6: Six out-of-print publications from 1946, 1953, 1963, 1966, 1978 & 1987 plus the Richfield Challenge, 1952 & Tom Knapp's MS Thesis, 2007 \$15.

****Special Price** - Historical CDs 1 - 6 \$85**

NE Lower Peninsula Geological Field Conf., 2004, T. Black, M. Wollensak, On CD \$10

Stratigraphic Lexicon for Michigan, 2001, prepared by MBGS and published by DEQ, \$4

(NEW) Robert E. Mosher Geological Studies
A lifetime of geological research on Silurian Rocks with John T. Sanford. The disks are organized chronologically and include field work in North America and Europe. 2007, 2 CDs \$35.

Price Includes postage, handling and any applicable sales tax. Orders for publications should be prepaid in U.S. Funds and addressed to:
MBGS - Publications, P O Box 18074, Lansing
MI 48901-8074

Michigan Basin Geological Society Dues Notice

Please fill out this form when paying your dues for 2007-2008. Dues are \$25.00 for active member and \$10.00 for students

Name _____

Address _____

Phone (____) _____ - _____

E-Mail _____ @ _____

Amount Enclosed \$ _____

Send Newsletter by e-mail _____ or Mail _____ @ address above

Make check payable to: MBGS

Send to: Tom Hoane
1748 Danby Lane SE
Grand Rapids, MI 495

MBGS Meeting

Location: Michigan State University
Natural Science Building, Room 204

Wednesday, February 13, 2008

The talk will begin at **7:00 PM in room 204.**

Refreshments will be provided after the talk in the Natural Science Building
No charge for this meeting.

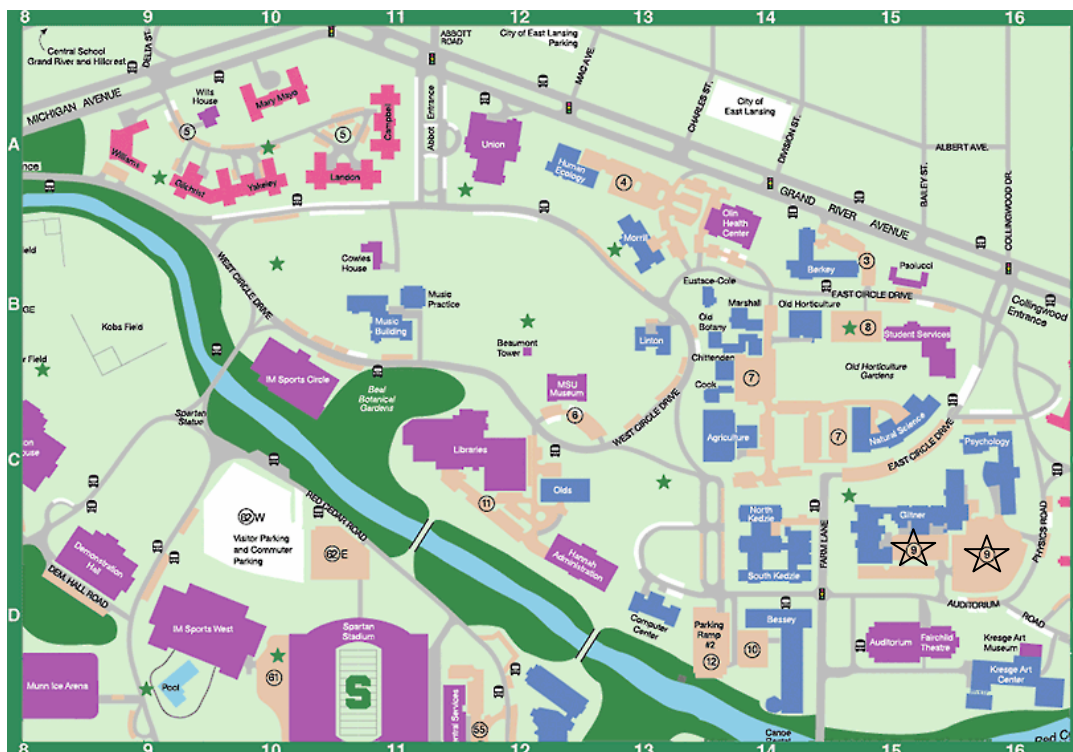
Topic: “Is Geothermal The Answer to Global Warming”

Executive meeting starting at 4:30 PM at Claddagh’s Irish Pub in the Eastwood Towne Center in Lansing, Michigan. Please contact Thomas Godbold if you have any questions.

Thomas Godbold
P.O. Box 30256
Lansing, MI 48909-7756
Bus Ph: 517-241-1545, Fax 517-241-1595
E-mail:godboldt@michigan.gov

Location

Between 5pm & 6pm you can park in Lot 9 behind Giltner Hall and the Psychology Building (former Physics and Astronomy building) for free. Otherwise you can try your luck with the metered slots clustered around the Natural Science Building and the adjacent Student Services Building.



- Accessible Parking Lots

“Is Geothermal The Answer to Global Warming”

By: Jim Heinzman
Michigan Department of Environmental Quality

Abstract:

Rising energy costs, global warming, and pollution are rapidly becoming national policy concerns. Increased use of geothermal resources can address these concerns through large scale development and implementation.

Geothermal resources, including soil, groundwater and surface water are proven, reliable, and accessible commodities for development. Heat pump technology to access this resource for heating and cooling is efficient, easily implemented, and capable of dramatically reducing carbon emissions. It is far more economical, long term, when compared to other heating and cooling systems. Increased use of this technology can also result in reducing our dependence on foreign oil.

Earth has a daily, seasonal, and annual energy budget. Heat is continually transferred from sun to air to soil to ground and surface water by climate and weather patterns. This constant weather-related energy influx provides a sustainable resource. Geothermal resources need to be part of a full range of existing domestic and alternative energy options currently under development. This resource has proven capabilities to stimulate a new energy-related economy while reducing carbon dioxide emissions.

A geothermal system can heat and air condition homes, businesses or industrial complexes with substantial cost reduction. Waste heat from coal generation and industrial processes can be recycled and distributed to customers. Large-scale design and management of geothermal heat systems for neighborhoods, municipalities, industries, and regional utility companies are areas of development that relate directly to geology.

The talk intends to generate discussion about geothermal heating as a significant component of a sustainable energy policy.

Bio for Jim Heinzman, Michigan Department of Environmental Quality

Jim Heinzman is a Geologist, currently the Superfund Geological Support Unit Chief in the Remediation and Redevelopment Division of the Department of Environmental Quality. He received a Bachelors of Science Degree from Central Michigan University in Geology, and completed the Masters level course work in Geology and Paleo-ecology at Michigan State University. He obtained a Masters Degree from Michigan State University in Resource Development, specializing in groundwater and surface water policy, development and environmental management. He started his career in the Geological Survey Division where he gained experience in many of their programs and moved to the Remediation and Redevelopment Division. His experience includes an assignment to a Governor Blanchard Commission as an Executive Director to the Superconducting Supercollider Commission, a high-energy physics project that Michigan competed for nationally in the late 1980's. Jim also played a significant role in fostering the development of sustainable resource management principles to Michigan's environmental and natural resources.