MBGS APRIL MEMBERSHIP MEETING – JOINT DINNER MEETING WITH MI-AIPG

The April meeting will be held on April 13th, 2017 at Hawk Hallow Golf Course, Bath, Michigan.

Speaker: Joe Maki, Upper Peninsula District geologist within the Oil, Gas and Minerals Division of the Michigan Department of Environmental Quality presenting Mine Development, Regulation, and Monitoring in the Upper Peninsula of Michigan

Costs: Students - free, Members (MI-AIPG or MBGS) - $30.00, Non-members - $50.00. Registration is payable electronically via Eventbrite (see link below) or at the door by cash or check; however, pre-payment is preferred and speeds up the check-in process at the door.

Dinner: Choice of beef sirloin, rosemary chicken and vegetarian lasagna

Time: Cash Bar 5:30-6:30 PM, Dinner 6:30 PM, and Speaker 7:30-9:00 PM


Please note: Cancellations made within 48 hours of the meeting and/or “No Shows” will be charged and expected to pay the registration fee.

LED FIELD LENS AND MBGS LANYARD AVAILABLE

The Michigan Basin Geological Society is offering to its members and non-members this geological field hand lens and lanyard (photo attached). The field hand lens is a large 21mm lens with a 20X magnification. A pair of white LEDs provides illumination for all those darkened close-up viewing of rocks, minerals and fossils. A case is provided for the field lens with a key to remove the batteries. Batteries are included. The green lanyard has MICHIGAN BASIN GEOLOGICAL SOCIETY printed on one side of the unfussy 1" wide webbing. This lanyard is designed with a breakaway buckle clip and detachable keychain for versatile use and comfortable wearing. MBGS is offering the Lanyard/LED Hand Lens and Case combo for $15 each and the Lanyard alone for $5 each if picked up at a meeting or field trip. If you request to have your purchase mailed, standard costs for mailing container and postage will apply. Please contact Mark Wollensak at wollensak@voyager.net to order.
Michigan Basin Geological Society and MI-AIPG Joint Membership Meeting
April 13th, 2017

Hawk Hollow Golf Course
15101 Chandler Road, Bath 48808
UPCOMING EVENTS


April 13, 2017: MI-AIPG and MBGS Joint Meeting, Lakeview Room at Hawk Hollow Golf Club, 15101 Chandler Road, Bath Twp, MI 48808

May 10-11, 2017: Institute on Lake Superior Geology, 2017 Annual Meeting Wawa, Ontario


May 16, 2017: MI-AIPG 13th Annual Golf Outing, proceeds generated from the event benefit the AIPG K-12 Education Grant fund, [http://mi.aipg.org/](http://mi.aipg.org/)


August 12-13, 2017: AIPG Joint Michigan/Wisconsin Field Trip, details forthcoming

September 24-27, 2017: 2017 AAPG Eastern Section meeting

Check out our new website at [www.mbgs.org](http://www.mbgs.org)
MICHIGAN BASIN GEOLOGICAL SOCIETY OFFICERS
2016-2017

PRESIDENT: JOHN SHOOK, PE, VP Operations
Detroit Salt, Mine
12841 Sanders St., Detroit, MI  48217
W (313) 841-5144 x 121 (C) 707-293-7306

VICE PRESIDENT: PETER ROSE, Geologist
Office of Minerals Management, Michigan Department of Natural Resources
W (517) 284-5901 , RoseP1@michigan.gov

SECRETARY: JOHN YELLICH, Director
Michigan Geological Survey, Western Michigan University
1903 West Michigan Ave, Kalamazoo, MI 49008-5241
(W) 269-387-8649 (C) 303-901-2886; john.a.yellich@wmich.edu

TREASURER: MIKE POZNIAK
Arcadis
101 S. Washington Square, Ste 400, Lansing, MI 48933
(W) 517-324-5054  (C) 517-898-3839 mike.pozniak@arcadis-us.com

BUSINESS MANAGER: Emanual “EZ” MANOS, President,
Detroit Salt Company LLC
12841 Sanders St., Detroit, MI  48217 ezmanos@detroitsalt.com

PAST – PRESIDENT : DAVE BARNES
GEOS, Western Michigan University,
1903 West Michigan Ave, Kalamazoo, MI 49008-5241
(W) 269-387-8617 (C) 269-365-4561; barnes@wmich.edu

FIELDTRIP DIRECTOR: MARK WOLLENSAK, CPG
Hamp, Mathews & Assoc, Inc,
15266 Ann Drive, Bath, MI 48808
(W) 517-641-7333  (C) 517-719-8321, wollensak@voyager.net

FIELDTRIP DIRECTOR: LUKE DEWIG
TransCanada
5250 Corporate Drive, Troy, MI 48098
(C) 248-904-8154, luke_dewig@transcanada.com

NEWSLETTER EDITOR: ARLENE ANDERSON-VINCENT
Nestle Waters North America
19275 Eight Mile Road, Stanwood MI 49346
(W) 231-823-8451 arlene.anderson-vincent@waters.nestle.com

ELECTRONIC PUBLICATIONS: MARK WOLLENSAK and JOHN SHOOK (see above)

WEBMASTER: JOHN ESCH, eschj@michigan.gov
Prices include 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 14044
Lansing, MI 48901-4044

Historical CD #1: Nine out-of-print publications from 1949 through 1965 and 1998, 2000, $15
- The Stratigraphy of Manitoulin Island, Ontario, Canada, June 19-20, 1954
- The Devonian and Silurian Rocks of Parts of Ontario, Canada and Western New York, June 22-23, 1951
- The Traverse Group of the Northern Part of the Southern Peninsula of Michigan, June 16-17, 1949
- The Devonian Strata of the London-Sarnia Area, Southwestern Ontario, Compiled by Erwin C. Stumm, Lewis B. Kellum and Jean Davies Wright, June 9-10, 1956
- The Ordovician Rocks of the Escanaba-Stonington Area, Led by R. C. Hussey, June 2-3, 1950
- The Niagara Escarpment of Peninsular Ontario, Canada, June 18-19, 1955
- Classic Silurian Reefs of the Chicago Area, by Donald G. Mikulic and Joanne Kluessendorf, June 27, 1998
- Geology of Central Ontario, Canada, 1965

- Copper Country Field Trip, Michigan, June 20-22, 1947
- Geology of Mackinac Island and Lower and Middle Devonian, South of the Straits of Mackinac, June 12-14, 1959
- Tectonics, Structure and Karst in Northern Lower Michigan, August 1983
- Geology of the Pictured Rocks, Upper Peninsula, Michigan, July 11-13, 1991

- Pleistocene and Early Paleozoic of the Eastern Part of the Northern Peninsula of Michigan, June 18-21, 1948
- Stratigraphy and Structure of the Devonian Rocks in Southeastern MI and Northwestern OH, June 20-21, 1952
- Lower Ordovician and Upper Cambrian of Wisconsin, May 10-12, 1990
- Guidebook to the Precambrian Geology and Metallogeny of the Central Upper Peninsula of Michigan September 12-13, 1991

- Silurian Rocks of the Northern Peninsula of Michigan, 1957
- Cambrian Geology of Parts of Dickinson and Iron Counties, Michigan, June 1958
- Geologic Features of Parts of Houghton, Keweenaw, Baraga and Ontonagon Counties, Michigan, May 19-21, 1961
- Correlation Problems of the Cambrian and Ordovician Outcrops Areas, Northern Peninsula of Michigan 1967
- The Geology of Manitoulin Island, June 1968
- Devonian Strata of Alpena and Presque Isle Counties, Michigan 1970

- Oil & Gas Fields Symposium, Volume 1, April 1969, 200 pp., maps, illus., second printing with updates
- Geology of the Lake Erie Islands and Adjacent Shores, 1971, 65pp., maps, illus. by Jane L. Forsyth
- Glacial Geology of Southwestern Michigan, Landforms of the Lake Michigan Lobe, Southwestern Michigan, 2001, AAPG Eastern Section Meeting Field Trip, 32 pp., maps, illus. by A Kehew and A. Kozlowski

- Guidebook for Ordovician Stratigraphy of the Cincinnati, Ohio and Richmond, Indiana Areas, June 12, 13, 1953 by W. H. Shideler and B. T. Sandefur
- Guidebook for Ontario Geological Excursion to Kettle Point – Owen Sound- Waubaushene, June 21, 22, 23 1946 by W. A. Roliff, C.S. Evans and J.F. Caley
- Guidebook for Cambrian Stratigraphy in Western Wisconsin, May 21, 22, 1966 by Merideth E. Ostrom
- Geology of the Manitoulin Area, Special Papers #3, September 29, 30 and October 1, 1978 by J. T. Sanford and R. E. Mosher
- Middle Devonian Cratonic Carbonates and Shales in Southwestern Ontario, November 14, 1987 by Bruce Wilkinson
- The Richfield Challenge, A Review of the Richfield Developments in Michigan, 1952 by Gordon H. Hautan
- A Theory of Rogers City and Dundee Relationships in Central Michigan, Masters Thesis, 1947 by Tom Knapp


- Silurian Rocks of the Southern Lake Michigan Area, 1962, James H. Fisher, Chairman, MBGS Annual Field Conference
- Studies of the Precambrian of the Michigan Basin, by Harold B. Stonehouse, 1969
- Ordovician and Silurian Geology of the N. Peninsula of Michigan, 1980, R.B. Votaw, 40 pp., illus., maps
- Upper Keweenawan Rift-Fill Sequence, Mid-Continent Rift System, Michigan, 1988, P.A. Daniels and R.D. Elmore, M.S. Wollensak, ed., 150 pp., illus., maps

OTHER SPECIAL OFFERS

- Historical CD Set - # 1 – 7 (detailed above) for a special purchase price of $95


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

- 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.

MBGS ONLINE STORE

## MESTA Geology Recommended Websites

<table>
<thead>
<tr>
<th>Site Name</th>
<th>World’s Oldest Fossils Found in Greenland</th>
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<tbody>
<tr>
<td>Site Author</td>
<td>Nicholas Wade</td>
</tr>
<tr>
<td>Suggested By</td>
<td>Fred Beyer</td>
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<tr>
<td>Description</td>
<td>“Geologists have discovered in Greenland evidence for ancient life in rocks that are 3.7 billion years old. The find, if confirmed, would make these fossils the oldest on Earth and may change scientific understanding of the origins of life.”</td>
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<thead>
<tr>
<th>Site Name</th>
<th>In 250 Million Years Earth Might Only Have One Continent</th>
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<tbody>
<tr>
<td>Site Author</td>
<td>Chris Baraniuk</td>
</tr>
<tr>
<td>Suggested By</td>
<td>Chad Wiekierak</td>
</tr>
<tr>
<td>Description</td>
<td>“Earth's continents are constantly in motion, and by running the tape forwards and backwards we can figure out where they were in the past – and where they might go in the future.”</td>
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<tr>
<th>Site Name</th>
<th>How to do a Sand Lab</th>
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<tbody>
<tr>
<td>Site URL</td>
<td><a href="http://www.gazdonianproductions.com/sand-lab.html">http://www.gazdonianproductions.com/sand-lab.html</a></td>
</tr>
<tr>
<td>Site Author</td>
<td>Gazdonian Productions</td>
</tr>
<tr>
<td>Suggested By</td>
<td>Tom Gazda</td>
</tr>
<tr>
<td>Description</td>
<td>The Sand Lab uses basic materials to have students look at sand under magnification. Students observe the sand's degree of sorting, shape of grains, % quartz composition, grain size and other characteristics. The webpage includes a &quot;How to Do the Sand Lab&quot; video overview to help teachers get a sense of how the lab works. In addition, the site includes many resources that can be used à la carte style to build your own sand mini-unit. These include Dr. Rob Holman's (Oregon State University) &quot;Sand Quiz&quot; and Goggle Earth Sand Tour, a captivating episode of the Radiolab podcast, an example of an in-the-field sand collection video, a TED talk on sand's growing scarcity as a natural resource, a video on the singing sands of Morocco and more.</td>
</tr>
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The AIPG Michigan Section is offering sponsorship opportunities for the 7th Annual AIPG Michigan Workshop to be held June 13 and 14, 2017, at the Ralph A. MacMullan Conference Center on Higgins Lake in Roscommon County, Michigan.

This 7th workshop in the series of annual training events hosted by the AIPG Michigan Section focuses on providing quality technical information and case studies. These environmental workshops bring together a broad base of topic expertise from consulting, regulatory, academic, and owner perspectives.

This unique workshop forum creates excellent opportunities for

- Networking
- Knowledge transfer
- Collaborative problem solving
- Innovative product introduction
- Field demonstrations

Leadership and Break sponsors are available at various levels!

This year the AIPG Michigan Section is featuring exhibitors during one of the presentation sessions giving exhibitors at the Michigan and Superior glacial lobe levels an opportunity to speak about their services for three to four minutes.

This workshop will provide the same thought provoking, high quality technical presentations and discussions as have come to be expected of the Michigan Section’s annual workshop. As professionals working in the environmental industry, we make decisions regarding potential and real exposures daily using tools developed from the latest advances in science and technology, statutory requirements, and professional experience.

Sponsorship Questions? Contact Dawn Prell
Field Demonstration Questions? Contact Co-Chairs Rick Dunkin or Sara Pearson
Registration is Open!

Registration for the AIPG Michigan Section’s 7th Annual Workshop is officially open. Don’t miss out! Sign up for the workshop to be held **June 13 and 14, 2017**, at the Ralph A. Mac-Mullan Conference Center along Higgins Lake in Roscommon County, Michigan.

This 7th workshop in the series of annual training events hosted by the AIPG Michigan Section continues its focus on providing quality technical information. These environmental workshops bring together a broad base of topic expertise from consulting, regulatory, academic, and owner perspectives.

We are kicking off this year’s workshop featuring keynote speaker Dr. Peter Adriaens, Professor of Environmental Engineering and Finance and also Entrepreneurship at the University of Michigan. He will provide insight into water resources from the perspective of business water risk management and the ripple effects from watersheds to capital markets.

Additionally, this unique workshop forum creates excellent opportunities for:

- Networking
- Knowledge transfer
- Collaborative problem solving
- Innovative product introduction
- Field demonstrations

Join us for case study style presentations, regulatory updates, and the latest information on new technologies presented in a unique, off the beaten path setting where knowledge transfer and problem solving is promoted through collaboration and partnership to manage risks from environmental contamination.

Be sure to sign up soon as this popular event sells out quickly and space is limited. The AIPG Michigan Section thanks you for supporting this event!