



MICHIGAN SECTION AIPG NEWSLETTER



IN THIS ISSUE

From the President's Desk

by Brian Burke, CPG

When my son returned from several years in Italy, he brought me a chunk of volcanic ash from Mt. Vesuvius. Where did he get the idea that I would want something like that? It sits in a raised bed out back next to scallions and roses. My sister spent a year in Israel and brought me back small stones from Nazareth, Bethlehem, Masada and Galilee. They're in a cedar box and I'm going to bring them to work one of these days. It's probably the only thing I own that might fall into the category of holy relic. Why does my family keep bringing me rocks? There's a Marquette stromatolite next to my garlic. A block of Freda sandstone sits next to a chunk of Chugach Mountain greywacke in my front rock garden. I kind of wish I still had that gastropod that I found in an Iowa road cut – in my memory it looked like it was made out of coarse sugar crystals. I impulsively gave it away to a friend who admired it decades ago. I'm glad I didn't give away an unusual galena crystal from a lead mine in Missouri. It's in a display case along with some old matchbox cars and my Dad's dog tag. I'm kicking myself for not grabbing Central Park schist. After all, I remembered andesite from Mt. St. Helens and basalt from a Portland sea stack.

Like you, I could go on and on....My collection isn't within a thousand miles of being museum-worthy. My rocks are only valuable to me as souvenirs from my travels. And I know I'm not the only geologist whose collection has expanded into the yard. At our last meeting several of us laughed about running out of storage space and testing the patience of loved ones. This year I'm going to pick myself a few nice new ones in Reykjavik. I bet you have plans this year to add to your own collections. I hope you're all doing well and I'm looking forward to seeing you at the Workshop in June.



Photo from 2015 Workshop, courtesy of Adam Heft.



April Section Meeting

The April 14, 2016 section meeting was held at Central Michigan University to help support the student chapter. Once again, we had a great student turnout.

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Bibliography of Michigan Geology

The Michigan Geological Survey announces the publication of a listing of over 6,000 articles related to Michigan Geology.

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Employment Information

Information on employment opportunities and candidates seeking employment...

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Support Our Sponsors!

The Section Executive Committee would like to remind its members to support the companies advertising in the newsletter. Consider working with these companies, and when you speak with their representatives, let them know that you saw their ad in the Michigan Section newsletter.

Bibliography of Michigan Geology

It is with great pleasure that the Michigan Geological Survey (MGS) at Western Michigan University announces a new publication: **Michigan Geology: A Bibliography**. This publication is a compilation of over 6,000 publicly available documents on Michigan geology, spanning the last 195 years.

These are documents prepared by industry, the MGS, professional associations and by Michigan universities as well as other universities. This document is divided into four major sections: Precambrian, Paleozoic, Quaternary and Other Publications. Dr. Peter Voice compiled this magnificent summary with the cooperation of all the Michigan university libraries and their earth and geological sciences departments. As there were no complete listings of the theses, Dr. Voice collaborated with university libraries and departments to record detailed references. Please publicize this set of historical information.

Below is the link to the MGS website for this new, free, PDF searchable publication: <http://wmich.edu/geologysurvey/publication>.

Thank you to Dr. Peter Voice!

Information provided by John Yellich, Director of the Michigan Geological Survey

Where in Michigan? Contest

The April edition of the newsletter featured a photograph of three stromatolite fossils in the Queenston Shale Formation of the Fossil Ledges on Drummond Island. The photograph was taken by Sara Verbrugge-Pearson during the 2015 Michigan Section summer field trip.

No one correctly identified the photograph for that issue of the newsletter. This edition features a new photograph at the top of the first page. The first person that correctly identifies what the photograph depicts (feature name, location, and formation) will win AIPG swag. Submit your guess to the

editor; only one entry per person per issue please.

April Meeting Summary

The Section held a meeting in support of the CMU Student Chapter in Mt. Pleasant on April 14, 2016. The featured speaker was David Slayton of the MDEQ's Office of Waste Management and Radiological Protection; he spoke about "Naturally Occurring Metals, Glaciation and Cleanup Criteria."

The meeting saw a total of 64 individuals registered, including nearly the entire CMU student chapter, and a handful of students from other colleges and universities. The students did a great deal of networking with professionals at the meeting.



The 64 meeting attendees enjoying dinner before the speaker's presentation. Photo courtesy of Adam Heft.

During the meeting, Michigan Section President Brian Burke and National President Elect Adam Heft presented MSU undergraduate student Brett Flessner with one of the 13 national scholarships awarded in 2016. The scholarship was based in part on the essay "Why I want to be a Geologist" and part on grades and a letter of recommendation from a Department faculty representative.



Student member Brett Flessner (left) receiving his award from Section President Brian Burke and National President Elect Adam Heft. Photo taken by Tim Woodburne.

Following the presentation of the award to Brett Flessner, CMU student chapter

members Jon Andrews and Jasmine Stefansky provided a short summary of their recent chapter activities. The department and student chapter took a trip to New Mexico that was partially funded by money provided by the Michigan Section in support of chapter activities.



CMU Students Jasmine Stefansky and Jon Andrews providing a summary on a recent student chapter trip. Photo courtesy of Adam Heft.

Following the presentation by David Slayton, the CMU student chapter closed their silent auction and held the drawing for the 50/50 raffle. After three attempts to get a winner for the raffle (no one claimed the winning tickets), the raffle was closed, and the proceeds were given to the student chapter in full.



Speaker David Slayton presenting his talk on naturally occurring metals, glaciation and cleanup criteria. Photo courtesy of Adam Heft.

Member Input Sought

The Section Executive Committee is seeking input from members on a variety of topics. Do you have any suggestions regarding speakers/presentation topics that you would like to hear? What about field trips or other events? Some place you'd like to see us go, or something you think the membership would enjoy doing? Then make your voice heard; please send your suggestions to one of the members of the Executive Committee; any of the six members would be glad to hear from you. AIPG is your organization. Please help keep it relevant and interesting for all by participating.



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EMU Student Chapter Activities

EThe Eastern Michigan University Geo Club and AIPG student chapter welcomed guest speaker Dr. Christopher Gellasch to our program. Dr. Gellasch gave an in depth talk on "Evaluating the Impact of Leaking Sewers on Urban Public Supply Wells Using Geochemical, Microbiological, and Geochemical processes." Prior to his talk, Dr. Gellasch took part in a luncheon with students

in which he discussed his experience with graduate school and research.

Four student members travelled to the University of Las Vegas for a workshop discussing high pressure science. While present, the students were able to tour the campus, talk with graduate students, witness sample experiments, and tour all the lab facilities on offer from UNLV.

The chapter officially ran elections during the month of April. New officers include President Donovan Verge, Vice-President Glenn Loriaux, Treasurer Matt Schiffert, Secretary Sarah Williamson, and Member at

Large Kyle Soule. Congratulations to all officers on their appointment.

Two of our member's academic accomplishments were recognized. Senior Haley Schneider won the Outstanding Undergraduate Award and Senior Keenan Hassell won the Outstanding Geology Undergraduate Award. The EMU Geo Club would like to congratulate both on their accomplishments and wish them the best of luck going forward.

Study sessions were successfully run through to the end of finals. Senior students in the program offered study tips and help with

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difficult material for underclassmen. We hope finals went well for all students and look forward to continuing the sessions in the fall.

The capstone of the GeoClub's year ran on May 1st. Our annual picnic potluck brought members together to celebrate the graduation of this year's club members, while welcoming back alumni from previous years.

Welcome New Members

The Michigan Section is continuing to grow. Please welcome the following new CPGs, Professional Members, Young Professional Members, Associate Members, and Students:

Travis Williams, Michael Muenich, Greg Zellmer, Rachel Kluba, John Hager, Mollie McCormick, Brandon Brock, Andrew Gordon, Nicholas Shaw, Joseph Birdsall, Erin Huggett, Shelby Hurst, Christopher Durkin, Wan Ali Azizan, Mary Sabuda, Haley Schneider, Brett Flessner, Natalie Stoffet, Jayson Olivera, Holli Gay, Morgan Shafer, John Goodin, Georgina Gill, Joy Kiefer, and Ellen O'Neil.

To each of our new members, the Michigan Section Executive Committee would like to welcome you to our Section, and encourage you to attend Section meetings and other

events. You are also welcome to provide information for the Member's Corner articles.

Open Committee Position

If you are interested in getting more involved with AIPG but are not quite ready for the executive committee, the Awards Committee is looking for a chair person. The commitment is minimal. The responsibilities include requesting nominations for section leadership award, reviewing membership list for longevity awards, preparing and presenting them; reviewing scholarship applications submitted through national and reviewing teacher grant applications.

If you are interested in this position, please contact Adam Heft (heft@pbworld.com) or Amy Hoeksema (amy.hoeksema@cmsenergy.com). AIPG would like to fill this position and announce at the next section meeting.

Did You Know?

This article is a new feature of the newsletter and is intended to remind members of various aspects of AIPG and benefits of membership. If there is something you would like to see featured in this column, please contact the Editor...

AIPG is a transparent organization. The Form 990s (which document the institute's financial information) are posted on the AIPG website: <http://www.aipg.org/about/financials.html>.

According to the Section 2.7.1 of the AIPG Bylaws, any Member or Adjunct may resign by submitting a written resignation to the Institute. The resignation shall be "without prejudice" if all dues and obligations to the Institute are paid. The resignation shall be accepted and the resigning Member or Adjunct shall be advised that the privileges of the Institute have been terminated. "Without prejudice" is defined as a condition under which the former Member or Adjunct has no outstanding obligations to the Institute in any form or manner, and is therefore eligible for readmission upon written request within five years.

Newsletter Notice via E-mail

Please be sure that you continue to receive the Section newsletters and other announcements. Submit an updated e-mail address to Adam Heft at heft@pbworld.com. If you move or change places of employment, don't forget to send your new contact information to both the Section and to



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National. If you are not receiving announcements directly from the Editor, it is because your email address is not up to date.

Michigan Department of Environmental Quality News

MDEQ Announces Public Information Meetings on the Proposed Cleanup Criteria Rules

The Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division (RRD) is hosting a series of public information meetings to be held around the state to provide an opportunity for citizens and environmental practitioners to learn more about the newly proposed generic cleanup criteria rules.

The DEQ, Remediation and Redevelopment Division (RRD), has completed a comprehensive revision of the [ADMINISTRATIVE RULES FOR PART 201, ENVIRONMENTAL CONTAMINATION RESPONSE ACTIVITY](#) section of the Natural Resources

and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

The proposed Cleanup Criteria Rules are used to evaluate risks to the public health, safety, welfare and the environment from regulated hazardous substances at sites of environmental contamination. The comprehensive update of the Cleanup Criteria, which includes 304 hazardous chemicals, is used to evaluate exposure pathways such as drinking water, direct contact, and vapor intrusion.

Public information meeting dates:

- Grand Rapids - May 31 – Crowne Plaza, 9:30 am - noon
- Ann Arbor - June 1 – Washtenaw Community College, 9:30 am - noon
- Lansing - June 1 – Lansing Community College, 6:00 – 8:30 pm
- Gaylord - June 16 – Tree Tops Resort, 9:30 am - noon
- Bay City - June 28 – Double Tree Hilton, 9:30 am - noon
- Marquette - July 11 – Marquette Commons, 9:30 am – noon

Formal Public Comment Period: June 17– July 26, 2016



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Formal Public Hearing: July 13, 2016, 1:00 – 4:00 pm.

The MDEQ has launched a new [webpage](#) where updates on the cleanup criteria and supporting information will be posted. Be sure to check the webpage and sign up for updates from [the DEQ-RRD listerv](#).

Preregistration is welcomed, and there is no cost to attend: to [register follow this link](#). Information contact: Abigail Hendershott at 517-284-5138 or email the DEQ-RRDCriteria@michigan.gov.

Article provided by Sara Verbrugge-Pearson, CPG – MDEQ RRD Unit Chief

Section Website Reminders

As you may have noticed, the Michigan Section is building a database of geologic photographs on our website. Please submit photographs that you are willing to share to Adam Heft at heft@pbworld.com. Don't

forget to include your name and a short explanation of what the photograph depicts. The photographs will be uploaded to the website periodically.

If you have suggestions on other items that should be included on the History page, please let a member of the Section Executive Committee know.

Interesting Geology Links

The Editor has received links to various interesting geology-related sites. Some of the more interesting links are included here. If you have any links to geology-related links that you would like to share, please forward them (with a citation, if applicable) to the Editor.

Thanks to Mark Francek of Central Michigan University for sharing via the "Earth Science Site of the Week" emails.

Career opportunities in the geosciences: <http://www.americangeosciences.org/workforce/career-resources>.



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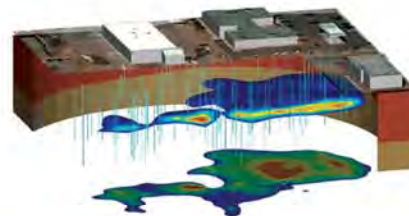
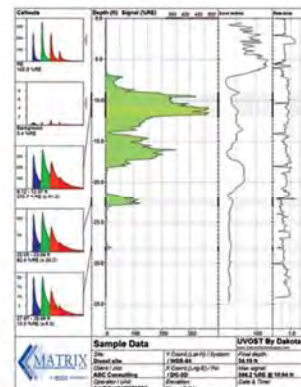
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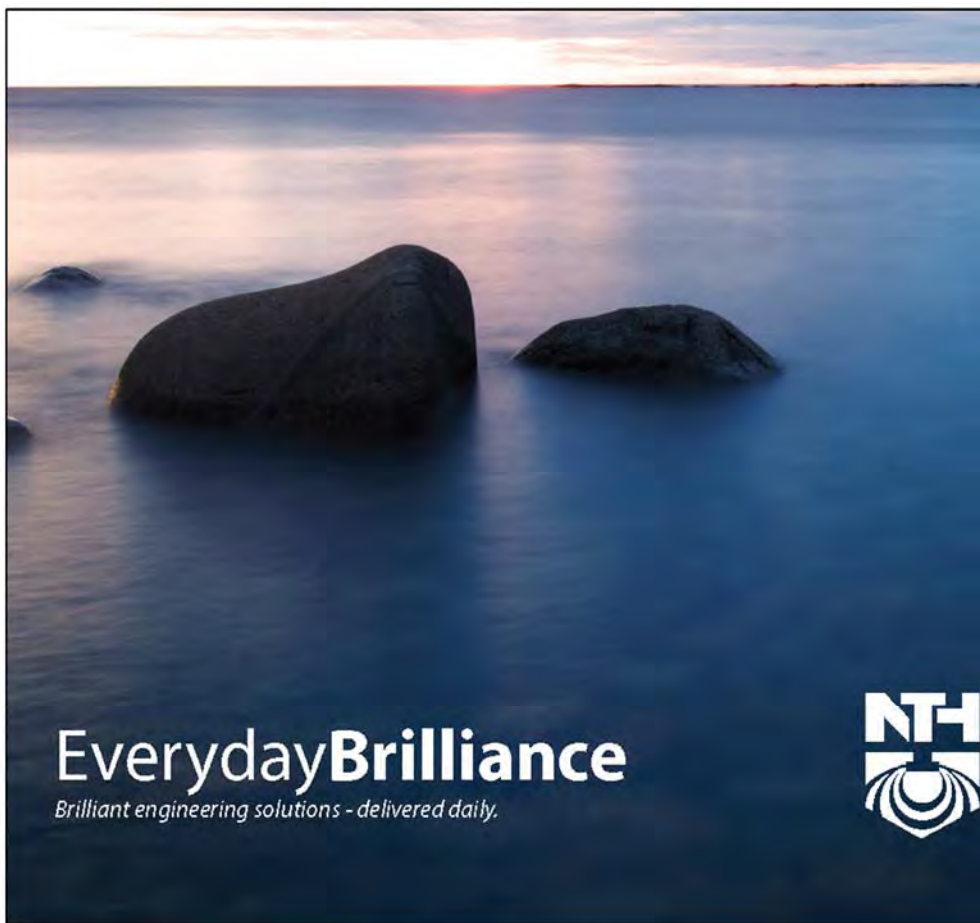
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Member's Corner

The Member's Corner includes information about the Section's membership. This is your chance to provide information on where you are and what you are doing. Simply send the information to the Editor for inclusion in this section.

No Member's Corner articles were received for this edition of the newsletter.

2016 Michigan Section Executive Committee

Here are the current officers of the Michigan Section. Be sure to talk with them at the Section's events when you see them...



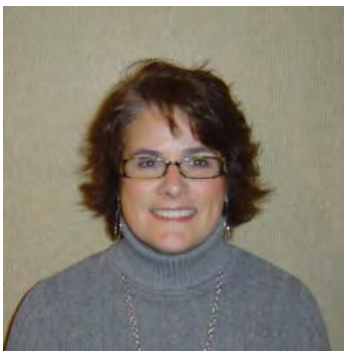
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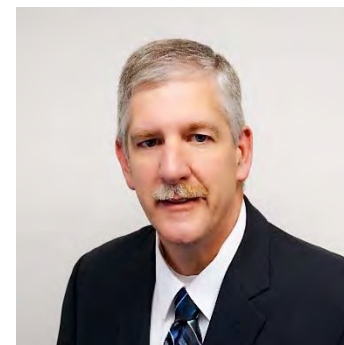
Tim Woodburne, Treasurer



Amy Hoeksema, Secretary



Dawn Prell, Past President



Adam Heft, Editor

Coming Events

May 20, 2016: Ohio Section AIPG field trip "Exploring the Lexington-Point Pleasant and Kope Formations in Northern Kentucky." Detailed information on the field trip can be accessed at: <https://www.aipg-ohio.org/eventdetails.php>; register online at <https://www.aipg-ohio.org/eventdetails.php>. Registration deadline is May 18, 2016

June 14-15, 2016: 6th Annual Michigan Section AIPG Summer Workshop. Topic: Environmental Risk Management: Why, When, Where and How.

June 25, 2016: AIPG National Executive Committee Meeting, Thornton, Colorado.

July 29-31, 2016: Michigan Section AIPG field trip "Fiborn Karst Conservancy, Pictured Rocks Boat Tour, and Munising Area

Waterfalls. Register at: <https://www.eventbrite.com/e/aipg-field-trip-fiborn-karst-conservancy-pictured-rocks-boat-tour-and-munising-area-waterfalls-tickets-22458137895>.

September 8-10, 2016: Douglas Houghton Michigan Historical Marker Dedication and MBGS Geological Field Trip, Keweenaw, Michigan. Contact Mark Wollensak at wollensak@voyager.net for more information.

September 9-13, 2016: 53rd Annual AIPG Meeting to be held in Santa Fe, New Mexico. Details available on the National AIPG website www.aipg.org.

September 25-27, 2016: Eastern Section, American Association of Petroleum Geologists annual meeting. Lexington, Kentucky. For additional details, please see the flyer attached to this newsletter.

September 25-28, 2016: GSA National Conference, Denver, Colorado.

September 29, 2016: Joint Michigan Section AIPG and MAEP meeting. To be held at the MDNR's Outdoor Adventure Center in Detroit. Speaker to be determined; topic will be Brownfield Redevelopment.

Location: Michigan Department of Natural Resources' Outdoor Adventure Center, Detroit.

Dinner: Meal choices to be determined.

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

Cost: Students free, Members \$30.00, Non-members \$50.00.

RSVP by September 26, 2016: RSVP for the meeting on the Eventbrite website no later than September 26th at: <https://www.eventbrite.com/e/aipg-section-meeting-tickets-25478236090>

December 1, 2016: Michigan Section AIPG Annual Meeting to be held at Weber's Inn, Ann Arbor. Speaker and topic to be determined.

Fall 2017: 54th Annual AIPG Meeting to be held in Chattanooga, TN.

Fall 2018: 55th Annual AIPG Meeting to be held in Colorado Springs, CO.

Fall 2019: 56th Annual AIPG Meeting to be held in the Northeast Section; location TBD.



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Employment Opportunities

To serve our members, and provide added value, the Michigan Section Executive Committee has decided to allow ads for employment or other opportunities to be posted in the Section newsletters. Employment ads will run for one edition unless renewed. There is no cost to our members or sponsors for this service. Send your employment opportunities to the Editor.

Seeking Employment

My name is Mark Brown (248-515-0275). I am seeking an entry-level geologist position in the environmental sector in Michigan. I have a B.S. in sociology and geology from Michigan State University (2003, 2013) and an M.S. in geology from New Mexico State University (December, 2015). See LinkedIn for details: www.linkedin.com/in/mark-brown-14b51a28.

I am a 2016 graduate with a B.Sc in geology (hydrogeology) from Eastern Michigan University, and an AAS in environmental studies from Schoolcraft College. I am seeking employment in Southeast Michigan in the environmental field. I have experience with hydrogeology and GIS, and I am an excellent self-starter and team player. I will be available to accept a position on July 5, 2016. Please email for full resume and references. Thank you, Roane David Gaddy roanegaddy@gmail.com.

Employment Opportunities

Environmental Resources Group, LLC (ERG) is seeking candidates for the following position(s):

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Michigan Section AIPG Scholarship Application

Purpose

To assist students with college education costs and to promote student participation in Michigan Section of the American Institute of Professional Geologists (AIPG). Scholarships will be awarded to declared undergraduate geological sciences majors who are at least sophomores. Details for applying for these scholarships are provided below.

Scholarship Awards

A scholarship award in the amount of \$3,500.00 will be made to an eligible student attending a college or university in Michigan. Scholarships are intended to be used to support tuition and/or room and board. We anticipate that up to three scholarships will be awarded by Michigan Section.

Eligibility Requirements

Any undergraduate student who is majoring in geology (or earth science), is at least a sophomore, and is attending a four-year accredited college or university in the State of Michigan can apply. Also, the applicant must be a student member of AIPG as of the deadline of submittal. You can apply online at www.aipg.org/Students/index.htm.

Each student who is awarded a scholarship agrees, by accepting the scholarship, to prepare at least a 400 word article for publication in *the Michigan Section's Newsletter*. The subject of the article must be related to a timely professional issue.

Application Process

1. Submit a cover letter introducing yourself and tell us what you have done outside of the class room such as research projects, officer in club, or outside activities within the community. Address your career goals in near term and longer term.
2. Submit an essay on "Why I Want to be a Geologist"

3. Submit a copy of your transcript (unofficial) as documentation that you are a current student. Requisite standards to apply are a minimum GPA of 3.0 (on a 4 point scale) and a minimum of 12 semester credits of geology/geoscience courses with a 3.5 GPA in these courses completed at time of application.
4. Submit a letter of recommendation from a geology/geoscience professor that provides an emphasis on your performance and activities in the classroom, in the department, and your character in how you work and help other students.

The application packet should be submitted to:

Attn: MI-AIPG Scholarship Committee Chr.
Mr. Timothy B. Woodburne, C.P.G.
Prein&Newhof
3355 Evergreen Drive, NE
Grand Rapids, MI 49525

Questions regarding the application process can be directed to
Tim Woodburne by telephone (616) 364-8491 or e-mail: twoodburne@preinnewhof.com

Application Deadline and Award Date

Applications must be received by July 1
Awarded the month of August

Basis of Awards

Awards will be based on the cover letter, recommendation, transcript and the content and creativity of the essay as judged by the Scholarship Committee. Financial need is not a consideration for the basis of the award. The decisions of the MI-AIPG Scholarship Committee are final.

40-hr/8



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MICHIGAN BASIN GEOLOGICAL SOCIETY

FIELD EXCURSION FALL 2016

DOUGLASS HOUGHTON HISTORICAL MARKER DEDICATION AND GEOLOGICAL FIELD TRIP KEWEENAW, MICHIGAN

DATE: Thursday, Friday and Saturday, September 8th, 9th & 10th, 2016.

FEE: \$125 for MBGS Members; \$150 Non-Members (includes membership)

LEADERS: **Dr. Theodore Bornhorst**, Director, A. E. Seaman Mineral Museum and Professor, Geological and Mining Engineering and Sciences, Michigan Tech Univ, Houghton, MI.
Lawrence Molloy, President, Keweenaw County Historical Society, Mohawk, MI
Dr. Allan Johnson, Professor Emeritus, Geological and Mining Engineering and Sciences, Michigan Tech Univ, Houghton, MI.

REGISTRATION: Email Mark Wollensak at wollensak@voyager.net to get your name on the attendees list. Payment and completed membership applications are to be submitted no later than Monday, August 1st, 2016. There is a maximum of 26 participants.

HOTEL: Holiday Inn Express, 1110 Century Way, Houghton, MI; (906) 482-1066
Fifteen 2-queen bed rooms are reserved under "MBGS" at \$74/night. Please make your own reservations for Thursday, Friday and Saturday nights.

TRIP BACKGROUND: The Michigan Basin Geological Society (MBGS) in conjunction with the Michigan Historical Society has prepared a Michigan Historical Marker describing Douglass Houghton's life and contribution to Michigan Geology and Mining. The Plaque will be formally dedicated by the Keweenaw County Historical Society in Eagle River, Michigan on Saturday September 10th, 2016. In conjunction with the dedication, the MBGS is hosting a field trip to visit and discuss geological sites in the area which Douglass Houghton visited. Houghton's 1841 report on the copper in the Keweenaw Peninsula touched off a copper rush which had a greater economic impact than the California Gold rush.

MBGS FALL 2016 DOUGLASS HOUGHTON
HISTORICAL MARKER DEDICATION AND GEOLOGICAL FIELD TRIP
Thursday, Friday and Saturday, September 8th, 9th & 10th, 2016

Name: _____ Phone No.: _____

Address, City, State, Zip: _____

Email Address : _____

Make check payable to "Michigan Basin Geological Society" in US Funds. Mail Payment to:
MBGS - Keweenaw Field Trip 2016, P.O. Box 14044, Lansing, MI 48901, USA

For information or to get your name on the attendees list, email Mark at wollensak@voyager.net