



American Institute of Professional Geologists Michigan Section

June 2013

From the President's Desk

May and June are very busy months for the AIPG-Michigan Section membership. Four events were scheduled, including a section meeting on May 2nd, the 9th Annual AIPG Michigan Section golf outing on May 14th, the annual geology field trip (May 30th to June 2nd), and the very popular AIPG Michigan Section workshop scheduled for June 18th to 20th.

This year, our May 2nd section meeting was held at the Fetzer Center, Western Michigan University in conjunction with a regional Geological Society of America's meeting. Over 500 people were in attendance at this regional GSA meeting, highlights include:

- The AIPG Michigan Section announced that two Michigan Students were nominated for the AIPG National Scholarship. Both students attend Grand Valley State and were awarded \$1,000 scholarships, they include:
 - AIPG National Scholarship, \$1,000: Kase Knochenhauer,
 - Michigan Section Scholarship, \$1,000: Karl Campbell
- Adam Heft displayed his Rocks of Michigan exhibit that contains samples of most of the rock types that are present in Michigan. His display reflects over 10 years of work, and was particularly popular with the many out-of-state GSA attendees that were unfamiliar with Michigan geology.
- The Michigan Section membership staffed a combined AIPG Michigan Section and AIPG National booth. Thanks to Kevin Lund, Adam Heft, and Brian Burke, the Michigan Section signed up 70 new AIPG members, 30 of these students attend Michigan colleges.

The Michigan Section was a sponsor of this GSA meeting. Due to our sponsorship, AIPG-Michigan Section attendees were able to attend the GSA's opening keynote presentation titled "When did we Transform Earth's Surface?" by Dr. William

Ruddiman at no charge. Dr. Ruddiman is a national expert on global warming, and is palaeoclimatologist and marine geologist; he is a Professor Emeritus at the University of Virginia.

On May 14th, the Michigan Section held our 9th annual golf outing at the Lyon Oaks golf course in Wixom. About 70 Michigan Section members attended this important event that is used to raise funds for K-12 education grants and scholarships. As in the past, Bob Reichenbach at Bob@ERGrp.net coordinated the golf outing. Thanks Bob!

The Michigan Section and the Michigan Basin Geological Society (MBGS) combined forces for a joint field trip between our two organizations. This year, the MBGS coordinated the field trip to the Western Upper Peninsula, which ran from Thursday May 30th to Sunday June 2nd. The field trip focused on the Precambrian Oronto Group and included visits to the Freda Sandstone, Copper Harbor Conglomerate, and the Lakeshore Trap Volcanics at Eagle River Falls. In addition, the field trip attendees were able to visit the AE Seaman's Mineralogical Museum on Saturday. Special thanks to Mark Wollensak of MBGS (phone 517.641.7333) for organizing this field trip.

The 3rd Annual AIPG Michigan Section workshop and conference was held at RAM Center located at Higgins Lake June 18-20. Based on the success of the last two workshops, a third day was added to the schedule this year. This year's conference theme was titled "Power of Partnership-Owners, Consultants, and Regulators." As in the first two workshops, Kevin Lund and Sara Pearson of the MDEQ (lundk@michigan.gov and pearsons@michigan.gov) coordinated this event. Thanks Kevin and Sara!

Following the 3rd Annual Michigan Section workshop, the remaining Section events include:

- September 19, 2013, Cleary University, Howell
- December 5, 2013, Kellogg Center, East Lansing

The 50th Annual AIPG National Meeting is scheduled for October 23-26th, in Broomfield, Colorado. This year, the National Meeting is being hosted the AIPG Colorado Section. Craig Savage, AIPG-Michigan Section Vice President will be attending the Annual Meeting.

In conjunction with the 50th Anniversary of the creation of the American Institute of Professional Geologists, each of the 25 State Sections was asked to prepare a Section history. The AIPG Michigan Section history was prepared by Larry Austin, Aqua-Tech, former Michigan Section president (1988) and current National Treasurer.

The AIPG Michigan Section was formed 36 years ago on January 8th, 1977. Andrew Mazola of Wayne State University was our first president. Our Michigan Section's history and listing of our 35 past presidents and officers will be distributed at the AIPG National Meeting in October and will be posted on our Section's website.

Don't hesitate to contact us with questions, comments, and ideas for future Section meetings. Feel free to contact me directly at jbarkach@glec.com.

John Barkach, CPG – 2013 Michigan Section President

Section Officers Reports

President: Information presented in the "From the President's Desk" article above.

Vice President: No report.

Treasurer: The balance in our checking account is currently \$48,592.62.

We received \$5,330 from AIPG National for Michigan membership dues.

There are a few remaining payment and deposits expected from the golf outing. Once we have paid all the bills, Bob will prepare a financial summary for the event. Many thanks to our sponsors who help make this a successful event for Michigan AIPG.

The AIPG event held in Kalamazoo in May in conjunction with GSA was a free event. Michigan AIPG sponsored the social hour with hors d' oeuvres prior to the key note speaker. Money earned from AIPG events paid for this.

Secretary:

The Executive Committee meeting scheduled for May 2, 2013, at the GSA North-Central Section Meeting at Western Michigan University was cancelled due to the lack of a quorum and the high traffic level at AIPG Michigan Section booth. A total of 68 attendees signed up for student memberships. Agenda items for the May 2, 2013 Executive

Committee meeting will be addressed during the next scheduled Executive Committee meeting.

May 2013 Michigan Section Meeting and GSA Regional Meeting

On May 1-4, 2013 the regional meeting of the Geological Society of America (GSA) was held in Kalamazoo, Michigan at the Fetzer Center on the campus of Western Michigan University. The Michigan Section sponsored the meeting and had a joint exhibit booth with National AIPG. On May 2nd, Michigan Section members joined GSA members for a social hour and the meeting's keynote address. The Keynote speaker was Dr. William F. Ruddiman, a professor emeritus from the University of Virginia, who presented "When Did We Transform Earth's Surface?"



Michigan Section and National AIPG joint exhibit booth space. Photograph courtesy of Adam Heft.

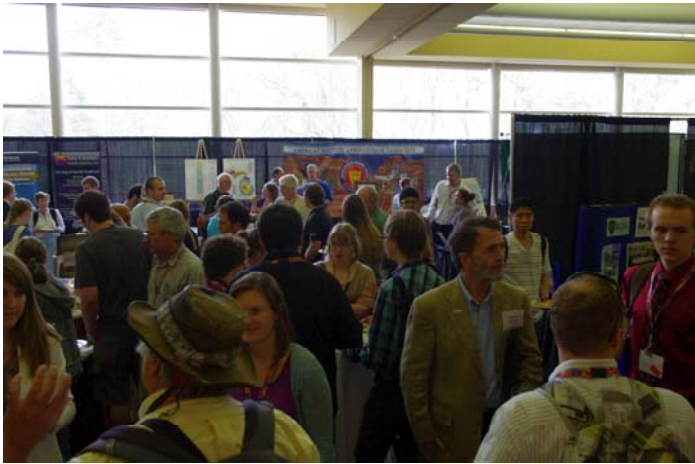
Michigan Section members staffed the booth space for National and the Section. In addition to information about the benefits of AIPG membership, the Editor brought his "Rocks of Michigan" exhibit, which includes examples of most of the rock formations found in Michigan, and information about where the samples were obtained. The exhibit generated a great deal of interest, particularly with members of the Missouri Geological Survey, who may have plans to create a similar exhibit with rocks from that state.

To help encourage students and potential members to sign up and become members, the Michigan Section raffled off several items including an AIPG hat, shirt, water bottle, briefcase, and a GPS unit. The raffle was open to anyone that signed up as a new member during the meeting, or that was already a member in attendance. In addition, a silent auction of a framed, limited-edition set of Douglas Houghton postal covers was available during the meeting.



New student members completing applications during the meeting. Photograph courtesy of Kevin Lund.

The combination of the Rocks of Michigan exhibit, raffle for new members, silent auction item, and the sponsorship of the evening's social hour made the AIPG exhibit booth one of the more popular with meeting attendees.



Attendees in the exhibit space during the social hour sponsored by the Michigan Section. Photograph courtesy of Kevin Lund.

The winner of the raffle was drawn during the social hour on May 2nd before the keynote address. The winner was new member Matt Smith of Northwest Missouri State University. Congratulations Matt!

Also during the meeting, John Barkach, 2013 Michigan Section President, presented student Karl Campbell with a check for \$1,000 from National as one of the winners of the "Why I Want to be a Geologist" scholarship. A second winner of the scholarship, Kase Knochenhauer, was unable to attend the meeting, but will also receive a check in the same amount. Congratulations to both Karl and Kase!

Wayne Pennington of Michigan Technological University was the winner of the silent auction.



Matt Smith of Northwest Missouri State University (left), winner of the new member raffle. He is holding the GPS unit and wearing an AIPG hat, standing with John Barkach, 2013 Michigan Section President. Photograph courtesy of Adam Heft.

The presence of the Michigan Section at the GSA meeting was well worthwhile, as the section was able to sign up numerous new members. The total number of new members signed up was 70 (from various states) and included two young professionals; of the 70, the Michigan Section gained 30 new members.



John Barkach, 2013 Michigan Section President presenting Karl Campbell with a check for the 2013 AIPG scholarship. Photograph courtesy of Adam Heft.

Adam Heft, CPG, Michigan Section AIPG Newsletter Editor

Coming Events

August 5-6, 2013: 2013 OOGA Summer Meeting – at the Zanesville Country Club, Zanesville, OH www.ooga.org/.

September 19, 2013: Michigan Section AIPG Meeting, Johnson Center, Cleary College, Howell. Speaker and topic to be announced.

Location: The Johnson Center, Cleary College, Howell.

Dinner: To be announced.

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 16, 2013: RSVP for the meeting on the Constant Contact website no later than September 16th at: [LINK FORTHCOMING](#).

October 19, 2013: MBGS Field Trip to Alabastine Gypsum Mine (Michigan Natural Storage) in Grand Rapids, 9am-noon. Patricia Videtich and Kevin Cole, Grand Valley State University, will lead the trip. Cost yet to be determined, space limited. Check www.mbgs.org for the latest information as the details are finalized.

October 23-26, 2013: AIPG 50th Annual Meeting, Omni Interlocken Resort, Broomfield, Colorado. <http://www.aipg.org>.

November 21, 2013: Ohio Section AIPG Annual Meeting and Dinner Presentation – Event details to be announced at a later date, <http://www.aipg-ohio.org/>.

December 5, 2013: Michigan Section AIPG Annual Meeting, Kellogg Center, East Lansing. Speaker and meeting details TBD.

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:

Stephen Hoekwater, Chris Droste, Cassie Johnson, Ayowale Ayodele, Nicole Peterson, Kathleen Dragos, Hans Lechner, Trek Ciaravino, and Neal Turluck.

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.

2013 Summer Conference

The American Institute of Professional Geologist (AIPG) – Michigan Section held its Third Annual Workshop on June 18, 19, and 20, 2013 at the Ralph A. MacMullan Conference Center located at 104 Conservation Drive on the north shore of Higgins Lake in Roscommon, Michigan. The Workshop titled "The Power of Partnerships," was endorsed by the Michigan Department of Environmental Quality, but was not MDEQ sanctioned training.

The primary goals of the Workshop was to advance the knowledge of LIF technology and how it can be used to help characterize sites with NAPL, and to present the amendments and changes to Part 213 and the updates to Part 201. The workshop also included perspectives of better cooperation between

owners, regulators, and consultants in more effectively moving sites to closure.

On June 18th, Randy St. Germain of Dakota Technologies presented the basic and advanced theory and Interpretation concepts of applying laser-induced fluorescence (LIF) screening tools toward characterizing LNAPL and DNAPL sites. The presentation included interpretation of data obtained from actual LIF soil borings.



Members attending Day 2 of the 2013 AIPG/MDEQ "Power of Partnerships" workshop. Photograph courtesy of Adam Heft.

Weather during the Workshop was perfect; generally cool in the mornings, but warming to mid 70s by the afternoon with a light breeze. Unlike last year, the facility's air conditioning was working, and the entire conference was comfortable.



Members enjoying lunch on the north shore of Higgins Lake on Day 1 of the workshop. Photograph courtesy of Adam Heft.

Approximately 110 to 120 attendees were present each day of the Workshop. The cross section of speakers included representatives from academia, industry, regulatory, and consulting. The Michigan Section would like to thank all who attended the workshop and encourage you to share the knowledge gained at this informative presentation.



Attendees networking with exhibitors during one of the breaks. Photograph courtesy of Adam Heft.

Several sponsors made the event possible and enjoyable for all. The sponsors include: Arcadis, Conestoga Rovers & Assoc., Dakota Technologies, Fibertec, Inc., Somat Engineering, e Environmental, ESC Lab Sciences, FMC Environmental Solutions, Matrix Environmental, and Stock Drilling. Our thanks to all the sponsors!



Members enjoying liquid refreshment and networking during the evening on Day 2. Photograph courtesy of Adam Heft.

On the morning of June 20th, Joe Quinnan of Arcadis presented an overview of the changes to Part 213. Other information included additional information on LIF, vapor intrusion, and NAPL. After the afternoon break a panel discussion was held on Part 213 issues. The panel was moderated by Tom Kinney, and included Phil Schrantz of the MDEQ, Erik Johnson of Blarney Castle Oil Co., and Scott Fleming of Speedway.

After the first and second days of presentations and dinner, attendees enjoyed an evening social gathering/networking event and plenty of liquid refreshment. The food each day was great and was

eaten down on the beach. An ice cream social was held during the afternoon break on the final day.

The final day of the Workshop started with Sara Pearson presenting an overview of Part 201 Updates. Other presentations included rapid assessment methods to evaluate vapor intrusion, no purge sampling, a river sediment cleanup, and information about working together between the USEPA and MDEQ. Another panel discussion was held in the afternoon. This panel was moderated by Joe Quinnan, and included Bob Wagner of the MDEQ, Andy Such of the Michigan Manufacturers Association, Grant Trigger of the Racer Trust, and Ravi K. Adibhatla of Consumers Energy.

To help encourage attendees to complete the Workshop surveys, a raffle drawing was held at the end of the Workshop. The raffle included four copies of "The Geology of Michigan" book, five AIPG briefcases, and a Garmin eTrex 20 GPS unit. The winner of the Garmin was Pisha Williams.



Some of the raffle winners with their prizes. Photograph courtesy of Adam Heft.

The Section Executive Committee would once again like to extend its appreciation to Sara Pearson and Kevin Lund, the event organizers, for putting together a great workshop!

2013 Joint MBGS-Michigan Section AIPG Summer Field Trip

From May 30 through June 2, members of the Michigan Basin Geological Society and Michigan Section of AIPG viewed outcrops of the oldest sedimentary rocks in Michigan.

The excursion was led by Paul Daniels, Jr., LPG and Diana Morton-Thompson, PG of Earth Resources International, LC. Outcrops were viewed along the southern shore of Lake Superior and at scenic river banks and waterfalls from Ironwood to Copper Harbor. The sediment that comprise the Oronto

Group Rift-Fill sequence - the Copper Harbor conglomerate, Freda sandstone, and Nonesuch Shale --were deposited approximately one billion years ago in the failed midcontinent rift system. One billion years ago the midcontinent rift was located in an arid, equatorial environment. Free oxygen comprised less than five percent of the atmosphere and the most advanced forms of life on earth were various forms of algae and primitive multi-cellular organisms.



Freda Sandstone and Nonesuch Shale contact, Presque Isle River. Photograph courtesy of Brian Burke.

Informative discussions of the depositional processes were held at each stop. The tour was attended by a mix of scientists, students and professionals interested in geology. The food was great and evening meals were shared at regional restaurants. This tour was last held in 1988, so I urge you to take advantage of these opportunities as they present themselves.

Brian Burke, 2013 Section Secretary

Michigan Department of Environmental Quality News

MDEQ RRD Posts Final VI Guidance, New and Revised Forms, and Requests Comments on NAPL Management Policy and Procedure

Vapor Intrusion

The MDEQ recently posted the final version of the Vapor Intrusion Guidance Document on the Remediation and Redevelopment Division's homepage. Get your copy and all of the documents listed below under the "What's New in Our Division" section of the [RRD homepage](#).

Baseline Environmental Assessment (BEA) and Due Care Forms

- EQP4025 BEA Submittal Form (6/2013)

- EQP4402 Documentation of Due Care Compliance Submittal Form (6/2013)

Revised No Further Action Request Form

- EQP4030 Request for DEQ Review of No Further Action (NFA) Report (6/2013)

Certificate of Completion Form

- EQP4400 Request for Certificate of Completion from DEQ (2/25/2013)

Response Activity Plan Request Review

- EQP4028 Request for DEQ Review of Response Activity Plan (6/2013)

Part 213 Land and Resource Use Restriction Forms

- Updated land and resource use restriction forms for the Leaking Underground Storage Tank Program

LNAPL Management

The Michigan Department of Environmental Quality's (MDEQ) Remediation and Redevelopment Division (RRD) is soliciting comments by August 30, 2013, on the draft "Petroleum Non Aqueous Phase Liquid (NAPL) Management" policy and procedure. The document is available from the following web links:

- What's New section of the [RRD homepage](#)
- [Draft Petroleum Non-Aqueous Liquids \(NAPL\) Management Policy and Procedure](#)

Statutory amendments to the cleanup programs administered by the RRD have shifted the focus on NAPL towards management and adopting nationally recognized methods for characterization, risk assessment, and closure.

The MDEQ has developed this policy and procedure to clarify the MDEQ's expectations regarding NAPL management and adequate characterization of NAPL, and to explain how the "recovery to the maximum extent practicable" is being interpreted by the MDEQ. This policy and procedure will provide direction to staff and may be used as a resource by parties outside of the MDEQ.

A MDEQ Policy and Procedure cannot establish regulatory requirements for parties outside of the MDEQ. This document provides direction to MDEQ staff regarding the implementation of rules and laws administered by the MDEQ. It is merely explanatory; does not affect the rights of, or procedures and practices available to, the public; and does not have the force and effect of law.

The MDEQ appreciates comments (in writing) and questions on the draft document and requests that they be sent to the following:

Mr. Nick Swiger, Environmental Engineer,
NAPL Technical and Program Support Team
Chairperson
Remediation and Redevelopment Division, MDEQ
120 West Chapin Street, Cadillac, Michigan 49601-2158
E-mail: swigern@michigan.gov

Sara Pearson, MDEQ RRD TAPS Team
Coordinator, CPG #10650

Support our Sponsors!

The Section Executive Committee would like to remind its members to support the companies that are advertisers 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.

2013 Golf Outing

2013 was a great year for our Ninth Annual AIPG Michigan Chapter Golf Outing. 60 players enjoyed a day of golf and camaraderie for this year's event. Proceeds from this event continue to support our K-12 educational grants.



Team Fibertec (Oasis sponsor). Left to right: Matt Frisch, Robert Anderson, Daryl Strandburgh, Dave VanGoethem. Photograph courtesy of Bob Reichenbach.

The perfect day facilitated some very competitive golf. A Low Total of 61 was posted by the foursome of Dave Guinn, Garnet Johnson, Mike Marshall, and Jeff Gostlin.



Team Job Site Services (Oasis sponsor). Left to right: Curt Litchy, Tom Kanthe, Josh Schuyler, Tom Holdeman. Photograph courtesy of Bob Reichenbach.

The Grand Prize Raffle (22" HD TV) was won by Roy Hoin. The 50/50 Raffle was won by Brian Palys. Brian returned a portion of the proceeds back to the organization. Skill prize winners were Sheryl Doxtader/Bob Reichenbach (Long Drive), Nicole Miller/Rick Dunkin (Closest to Pin).



Sheryl Doxtader receiving the award for Women's Long Drive. Photograph courtesy of Bob Reichenbach.

Our sponsors, without whom this event would not take place, were:

- Fibertec-Beverage Oasis/Carts

- Job Site Services-Beverage Oasis/Carts
- Schrader Environmental Services-Longest Drive (men)
- Stantec-Longest Drive (women)
- Orin Remediation Technologies, Inc.-Closest-to-Pin

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- MATECO Drilling

Thank you to all our sponsors. Additional thanks to Cheri DeLyon and Lori Near (Fibertec) for assisting with putting for dough contest and Cindy Louiselle (ERG) for helping with the hole-in-one grand prize hole and taking team photographs. Cheri, Lori, Cindy and Laura Lambert also assisted with the raffles and awards presentation.



Roy Hoin with his raffle prize. Photograph courtesy of Bob Reichenbach.

Thanks to all attendees!

Bob Reichenbach and Kevin Lund, Golf Outing Co Chairs

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

Section Website Reminders

As you may have noticed, the Michigan Section is working on building a database of geologic photographs on our website. We would like to continue building this collection. 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 periodically uploaded to the website once several have been received.

You will also note that the Section website now has a history page. Currently, it includes information on Douglas Houghton, Michigan's first State Geologist. We will be including information on the Section's officers in the near future. If you have suggestions on other items that should be included on this page, please let a member of the Section Executive Committee know.

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 submitted for this edition of the newsletter.

Employment Opportunities/Seeking Employment/Member 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...

Anthony VanHorn, upcoming Central Michigan University graduate seeking entry level position in environmental consulting, water treatment, remediation, or other relevant industry.

- Cumulative GPA: 3.38/4.0
- Major: Hydrogeology
- Minor: GIS
- Willing to relocate
- Availability: 9/1/13
- Phone: 989-708-6098
- Email: abvanhorn@hotmail.com

Resume available upon request.

Seeking Employment – Charlie Bush CPG #10894

With 17 years of experience in the environmental field, I have extensive knowledge of the Part 201 compliance regulations and have been managing large scale remedial projects for the past 9 years. I specialize in shallow geologic interpretation, remediation, and wetland mitigation.

Charlie.bush71@gmail.com

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