



American Institute of Professional Geologists

Michigan Section

April 2015

From the President's Desk



We may have just raised the bar for Section Meetings. Together with the Wayne State University Student Chapter, we held our first meeting in 2015 at the Detroit Historical Museum. This event, unlike any other held by the Section, featured a live band, strolling dinner, and Keynote

Speaker, Hal Fitch who gave an update on hydrofracking in Michigan all with a backdrop of rich Detroit history. My sincere thank you to our sponsors for this event: Mannik and Smith Group, NTH Consultants, Somat Engineering, and Golder Associates Inc.; your support is most appreciated.

Your Executive Committee continues to work hard as we have several more exciting events planned for 2015. Please read through the newsletter and put them on your calendar!

If you are interested in serving on the executive committee and have questions, please give me a call.

We are making strides at growing our student sections and increasing participation with the students across Michigan. We have recently signed on a new student chapter at Western Michigan University (WMU) and are working through the details of a field demonstration event in conjunction with WMU's hydrogeology field camp. With the generous donation from an AIPG sponsor, Stock Drilling, Inc., we can provide a drilling demonstration that will include installation of a few monitoring wells that can be used by students across the state for their studies. I will be asking for CPGs to volunteer their time to mentor students in the art of logging boreholes and monitor well installation.

Serving on the executive committee has been a rewarding experience. AIPG, as an organization, amazes me with the willingness of its members to step up each year to volunteer for leadership roles and support the profession. Thank you.

Dawn Prell, CPG – 2015 Michigan Section President

Section Officers Reports

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

Vice President (Brian Burke): I'm still feeling terrific about the March meeting and the stellar effort by the Wayne State Student Chapter in organizing a memorable event. Attendance was very good and the Detroit Historical Museum was the right venue. Student Chapter Vice President Melissa Allen deserves special credit, along with Section President Dawn Prell.



I look forward to our section meetings for a number of reasons. It's a chance for me to get caught up with friends and respected colleagues. We may be competitors on every other day, but on meeting days we raise a glass, reminisce and laugh. It's a chance for me to give back to our important, and too often overlooked, profession. Our unique training puts us at the forefront of the location and extraction of the raw materials or contaminants that enable or hinder the advance of modern civilization. It's a chance for us to encourage young geologists working their way through a career that's often affected by cycles that are beyond our control. It helps the students to hear of the circuitous path that we all followed after graduation.

And my path was as circuitous as yours. My training was in petroleum geology. A lot of good that did me

in 1985, when the price of a barrel of oil was around \$18 or so. So I did what many of us did, I got creative. I worked on a survey crew and edited topographic maps. Later, I was the purchasing agent and managed the warehouse for a construction contractor – it was good money. One day I learned from some college friends about this new field – environmental geology. I saw my chance, took a pay cut, jumped in, worked hard, built a career, raised a family, got laid off when times were tough, got rehired when times were good, traveled a bit, gained experience and gained perspective. At 52, my kids are grown and it's time for me to give back to the profession that has allowed me to live a good life and to join all of you in passing on the lessons we've learned.

This leads me to my final thought which was originally going to be the topic of this article. The Michigan Section of AIPG is our professional network. Are you getting all that you can from your membership? We provide you with more than just your professional registration. We're here to encourage you in the tough times and we're the forum where you can trumpet your successes in the good times. We donate funds to cash-strapped science educators and provide scholarships to geology students who are serious about this great profession. We provide opportunities to travel and learn and we provide opportunities for you to lead. If you haven't attended a meeting in a while, please consider attending our next meeting. We will be thrilled to welcome you.

Treasurer (Linda Hensel): It is finally springtime in Michigan. With most of the snow melted, the days are longer and warming up gradually, and there are more days with at least some sunshine throughout the day. Although we know how the weather will fluctuate at the time around the change of seasons, it seems as if the daily changes of temperature and wind speed and direction in early spring are the most extreme of the year. However, our perception is clouded by our wishes for the winter doldrums to pass quickly!!

The spring weather analogy was made to illustrate the point that we have fluctuations in the day-to-day operation of the Michigan Section. The Executive Committee works together as a team. We weather (yes, pun intended) the daily fluctuations of life and we work out any issue that arises in our Section business because of the strength of our team and our combined individual efforts. This team effort is very effective because we get to know each other



very well and through our time working together we are able to work together as friends as well as colleagues. This leads to us getting more things done to improve our meetings, outreach and to further our profession.

I encourage other Michigan Section members to become involved by considering running for office in fall 2015 for the 2016 Michigan Section Secretary position. The 2015 Secretary election was won by a very narrow margin. If you cannot run for office because of personal and professional time constraints, you can still contribute your ideas for topics and speakers for our quarterly meetings, contacts for potential K-12 school outreach, ideas for future summer workshops and for future summer fieldtrips, etc. Please reach out to other people in our Section membership and encourage them to become more active and give the Section Executive Board ideas to follow up. We are a relatively large group of people, with diverse backgrounds, interests and expertise. However, we are all geoscientists who pursued their degrees and career path because we have common interests and goals. I urge you to contact myself or anyone else on the Executive Committee with your ideas. Join me and the rest of the Michigan Section Executive Committee to make 2015 an even better year than 2014. Together we can and we will!!

Secretary (Tim Woodburne): Ten years ago, in 2005, I was also the MI AIPG Secretary and we were mostly concerned about planning the next Chapter meetings. The 2007 National AIPG Meeting that our Section hosted was still two years in the future and there was a separate planning committee that had formed that was just getting organized. Today, as I sit and listen to the meetings that we have had had so far, I am simply amazed at how much the Michigan Section has grown. There is a lot to do and be a part of and I encourage each of you to attend and become more involved with the Michigan Section. Here are some of the activities that we discuss routinely in our meetings.



Inspired by the success of the 2007 National Meeting in Traverse City, a small group set out to organize an annual summer workshop, which has been held at the R. A. MacMullan Conference Center on the north shore of Higgins Lake. This year the conference will focus on the topic of Site Characterization and will be held June 16-17.

Additionally, we are planning our annual Golf Outing, three additional Section Meetings, and a summer field trip. We now have four student chapters

(Central Michigan University, Eastern Michigan University, Wayne State University, and Western Michigan University). As a result of the Section's successful activities, we have more money available than we did 10 years ago; this allows us to support numerous grants, scholarships and awards! Having said all that, let's be mindful that we are an entirely volunteer organization dedicated to promoting geology as a profession here in Michigan.

Additionally, I wish to report back to you the Michigan AIPG Executive Committee meetings this past quarter. These meetings have focused on planning details for the Site Characterizations Conference, the Section's meeting schedule and potential speakers for the remainder of the year, a variety of potential donations/scholarships, the summer field trip, and membership issues.

Past President (Craig Savage): No report.



Coming Events

April 8, 2015: The MBGS Annual BBQ meeting will be at Western Michigan University in the Michigan Geological Repository for Research and Education Building, Kalamazoo, Michigan. Social hour will begin at 5:00 pm; dinner will be served at 6:00 pm; presentation at 7:00 pm; the cost is \$25. The speaker is Alan E. Kehew, Western Michigan University/Michigan Geological Survey, presenting, "Ice Streams in Michigan? Late Glacial behavior of the Saginaw "lobe"". Please RSVP by April 3rd, 2015 for this meeting to: Tom Godbold at tgodbold07@gmail.com.

May 14, 2015: Michigan Section AIPG Meeting, Johnson Center at Cleary College, Howell. Jeff Kimble of the U.S. EPA Region 5 will be speaking about "Status of the Marshall Michigan Enbridge Line 6b Pipeline Spill Cleanup."

Location: Johnson Center, Cleary College, Howell.

Dinner: Taste of Italy: Manicotti with meat sauce, grilled vegetable lasagna, or chicken alfredo. Includes anti-pasta salad garlic bread sticks, and cannoli's.

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 May 11, 2015: RSVP for the meeting on the Eventbrite website no later than May 11th at:

<https://www.eventbrite.com/e/aipg-section-meeting-enbridge-update-tickets-16395110216>.

June 16-17, 2015: Michigan Section 5th Annual Technical Workshop – Site Characterization to be held at the Ralph A. MacMullen Conference Center in Roscommon, Michigan. Save the Date!

September 19-22, 2015: 52nd Annual AIPG Meeting to be held in Anchorage, Alaska. Details available on the National AIPG website www.aipg.org.

2015 Golf Outing – Save the Date!

11th Annual Golf Outing-May 19, 2015

Now is the time to sign up! Please register on Eventbrite, by searching "2015 AIPG-MI Golf Outing" or contact Bob Reichenbach at (734) 476-5933 or bob.reichenbach@ERGrp.net. Registration forms are available on the Section website, and may be emailed or faxed to (248) 924-3108.

Sponsorships and spots for golfers are available, but are going fast. To assist the organizers in planning, please register early. The Registration Form is provided with this newsletter.

The AIPG K-12 Education Grant fund has provided thousands of dollars to a variety of worthy projects, made possible in part by the money raised through our annual golf outing. Your generosity has been, and will continue to be, the key to enabling organizations/schools to provide meaningful environmental educational programs and activities in the Geosciences.

Thank you for your support!

Bob Reichenbach - Golf Outing Chairman

2015 Annual Meeting Invitation

If you hadn't already heard, the AIPG 2015 Annual Meeting will be held in Anchorage, Alaska!! If you have even considered visiting The Last Frontier at any point in the past, this is your opportunity to make the trek.

The Alaska Section is looking forward to sharing so much that our amazing state has to offer; unique and complex geology, northern flora and fauna, and breathtaking scenery!! The meeting location is at the Hilton Hotel in the heart of downtown Anchorage, with access to the rich history of our town (Anchorage celebrates the 51st anniversary of the 1964 earthquake and its Centennial this year!), modern amenities (shopping and entertainment), plus quick access to some of the country's most incredible state and national parks.



Denali National Park. Photo courtesy of the National Park Service.

The appeal of Alaska speaks for itself, but if you need further convincing, we have several excellent field trips and speakers lined up (the call for abstracts is open at <http://www.aipg.org/abstract/>). The full field trip descriptions will be provided soon on <http://www.aipg.org/>, but below is a sampling of the fantastic field trips we have lined up:

- Turnagain Arm Geology Tour (Portage Glacier, Whittier Tunnel, Seward Highway Geology)
- Anchorage Geology Tour (1964 Earthquake tour, Alaska Geological Materials Center)
- Denali National Park and Healy Valley Coal Mine (two days)
- Glacial Geology of the Upper Kenai Peninsula (two days)
- Wishbone Hill and Matanuska-Susitna Valley (fossil hunting and coal deposits)
- Pre-meeting Fairbanks trip (Permafrost Tunnel & Fort Knox Gold Mine)

September weather in South-central Alaska is typically mild, with evening and morning temps in the 40s and daytime highs in the 50s. We recommend dressing in layers, and being prepared for rain and cool weather, especially along Cook Inlet and Turnagain Arm.

Downtown Anchorage hosts a variety of activities within walking distance of the Hilton, with many fabulous restaurants and local bars, several art galleries and historic buildings, and the Tony Knowles Coastal Trail to stretch your legs and offer sightseeing vantages. For more information in planning your stay, please be sure to visit the Anchorage Visitor's Convention Bureau (<http://www.anchorage.net/>).

We look forward to seeing the Michigan Section in September!!!



Sunrise north of Palmer. Photo courtesy of Keri Nutter.

Keri Nutter, CPG – Alaska Section Vice-President and 2015 Meeting Planning Committee Co-Chair

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.

2015 Summer Field Trip Planning

The AIPG Michigan Section 2015 summer field trip will be conducted on Drummond Island and in the very easternmost sections of Chippewa County (in the vicinity of DeTour Village and Raber, Michigan). Alan Blaske has provided assistance in planning this field trip.

I have had the opportunity to explore Chippewa County for the last few years because a member of my family moved up to Sault Ste. Marie. I have had the chance to find various spots in the eastern Upper Peninsula in the last few years that I count as some of my favorite places to visit of my lifetime. I had the wrong impression of the area before 2012 because I mainly visited the western Upper Peninsula as a college student and since graduating years ago. I count the Big Pine Campground, east of Brimley, on Lake Superior in the Hiawatha National Forest as my favorite place to swim and sit in a lawn chair with my feet in the water after I have dried off.

Our field trip will start with a visit to Drummond Island on Saturday August 1, 2015. The island is

accessible only by ferry across the St. Mary's River from the Village of DeTour. We will tour the Osborne Materials Company Drummond Island Dolomite Quarry by bus. We will also visit the "Fossil Ledges" (fantastic fossil bearing outcrop) on the northeastern side of the island. The ledges are accessible from the beach which is only 100 feet from the road. We will travel to the area by 4X4 vehicles from the ferry. The western half of Drummond Island is navigable by any car. We will also rent kayaks to be able to explore and view the area of these outcrops from the water. The ledges are protected from fossil collecting because of abuse in the past. However, to satisfy a geologists desire to use their hammers and seek samples for their collections or a paper weight-of-the-month for their desks, we are arranging to visit areas on Drummond island where puddingstone (conglomerate) has been removed for various construction projects so that we can collect samples.

Other plans while on Drummond Island include a whitefish dinner (at a group discount at the Northwoods Restaurant, which can seat 70 people) after the quarry trip or after visiting the fossil ledges), tour of "The Puddingstone Rock Shop and time for exploring Drummond Island on your own. Other activities available on the island include kayaking, biking, golfing, fishing and relaxing. The well-known "The Rock" golf course, built by Tom Monaghan, former Domino's Pizza owner, is a challenging course and is a good way to enjoy the north central island area. The Harbor Island National Wildlife Refuge, which is a well-known bird sanctuary, is located north of "The Rock" golf course and is accessible by boat, canoe and kayak.

Our plans include visits to other rock outcrops in eastern Mackinac and southeast Chippewa Counties. The area near the Rock Cut, the downbound channel for ships (both freshwater and saltwater ships from all over the world – called "salties") navigating the St. Mary's River south of the Soo Locks, is a great viewing area. The shipping lane is very close to this area of rock that was quarried to make the Rock Cut and "you can just about reach out and touch the ships" according to Alan Blaske. We will be able to examine the large rock detritus that was left behind from the construction of the "Rock Cut" shipping channel. We will also locate other places to view outcrops in the area and provide literature to view outcrops near the Straits of Mackinac in the St. Ignace area on your way up or on your way home from this fieldtrip.

The De Tour passage and Lighthouse are very cool places, the ships are very close to shore in the Village of DeTour and along the St. Mary's River between Lime Island and Raber (to the north) and DeTour Village (to the south). We will try to arrange a lighthouse tour of the De Tour passage lighthouse

and include with our information packet for the field trip an update in the July 1, 2015 newsletter.

There are a number of places to camp and rent cabins in the DeTour Village, Drummond Island and Les Cheneaux Island chain areas. We will secure campground space at various sites so we have choices for you. There are both private and national forest campgrounds. The township campground and the Trailhead campground on Drummond Island are good places with water and showers.

Until I visited the eastern U.P. in recent years, I was under the misperception that the greatest whitefish was available only in the western U.P. However, I can say with certainty that I have had the best whitefish ever in the eastern U.P. at various restaurants, and have learned to cook fresh whitefish for myself, friends, and family (grilled, baked and fried). I also volunteer to cook fresh whitefish (caught in the Straits of Mackinac and available in St. Ignace) on the grill to show various ways to cook this very fine fresh water delicacy for our entire group.

The ice is thinning on most of the Great Lakes and the Soo Locks opened March 25, 2015, so please make your plans to bring your family and friends and join us on the annual AIPG MI Section field trip, July 31 through August 2, 2015. We will keep you updated as final plans take shape.

Linda Hensel, CPG – Field Trip Chairperson

March Section Meeting Recap

The Michigan Section held a meeting on Friday, March 27th at the Detroit Historical Museum. All proceeds of this meeting went to support the Wayne State Student Chapter. This was a new venue for the Section, and the Wayne State Student Chapter handled most of the meeting setup coordination.



Meeting attendees discussing various issues and getting some liquid refreshment prior to dinner. Photograph courtesy of Adam Heft.

Several sponsors were on hand during the student meet and greet event before and during the strolling dinner. This was a good opportunity for students to meet and talk with sponsor companies as well as the attending members. The approximately 105 meeting attendees included about 35 to 40 students, several of whom were not previously registered as AIPG members, but were signed up during the meeting.



Meeting attendees in the student “meet and greet” area checking out the silent auction items. Photograph courtesy of Adam Heft.

The meeting included a silent auction of various geologic-related items, including books, maps, and mineral specimens. Proceeds of the silent auction went to support the student chapter’s activities.



Members of the Eddie King Band (Jeffrey Howard, Eddie King, Pete Berg, and Geno Leverett) performing during the strolling dinner and social hour before the speaker’s presentation. Photograph courtesy of Adam Heft.

The strolling dinner included three different stations with a variety of Detroit favorites, including coney dogs, a taco/nacho bar, and a desert bar with ice cream floats (root beer and Vernors). Attendees were also treated to music by the Eddie King Band before and during dinner.



Mellisa Allen, Vice President of the Wayne State University student chapter. Photograph courtesy of Dawn Prell.

After dinner, attendees adjourned to the auditorium, and Mellisa Allen of the Wayne State University student chapter provided an update on their activities and goals of the fundraising activities before introducing the keynote speaker, Hal Fitch.

Hal Fitch provided an educational presentation on hydrofracking; what it is, how it is done, and what the concerns with the process are. After the conclusion of his talk, Hal fielded questions for about 25 minutes.



Hal Fitch presenting his talk. Photograph courtesy of Dawn Prell.

The meeting and the presentation were very well received; by Monday afternoon, the Executive Committee President had received nearly 50 emails from attendees expressing their delight with the meeting. If you haven't attended a Section meeting recently, please do. You will enjoy the networking with your colleagues and the technical presentation.

The Executive Committee was provided a nice thank you from the student chapter, which is presented here:

Thank you all for your support of the WSU Student Section. We appreciate the support you have given with this fundraiser and allowing us to co-host the section meeting. This has been a great experience for me and I hope other students will continue to work with you after I have graduated. I look forward to starting my career as a member of the AIPG, and participating in future events.

Mellisa Powers-Allen

Michigan Department of Environmental Quality News

New Underground Storage Tank Cleanup Fund Status

On March 11, 2015, Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division (RRD) Chief Robert Wagner participated in a panel discussion at the Michigan Petroleum Association (MPA) Spring Convention and Trade Show in Grand Rapids. The topic of the panel discussion was the eagerly awaited Underground Storage Tank (UST) Cleanup Fund.

Chief Wagner reported that there were many great questions that the MDEQ would like to highlight here. The following questions and answers represent the principle themes of the discussion.

Q. When will the UST Cleanup Fund Authority be established?

A. The MDEQ is working with Governor Rick Snyder's office to complete the appointment process. The MDEQ anticipates that the appointments will be completed in the coming months.

Q. When can I rely on the fund for financial responsibility?

A. The United States Environmental Protection Agency (US EPA) must determine that the fund is acceptable in meeting the

financial responsibility requirements. A request for eligibility has been responded to by the UST Cleanup Authority.

Q. When will the US EPA determine that the fund is acceptable as financial responsibility?

A. The MDEQ submitted the request to the US EPA in January 2015 and is working with the US EPA to finalize the decision. **All owner/operators are advised to maintain their current financial responsibility (insurance).**

Q. How do I know if my claim is eligible for reimbursement?

A. Owner/operators should review the eligibility requirements in the Part 215 amendments, ensure that they have the required documentation, and prepare an eligibility request for submittal to the UST Cleanup Authority after its appointment.

Q. When can I expect to receive reimbursement if my claim is eligible?

A. Our expectation is that everything should be in place to process claims after October 1, 2015.

Sara Pearson, CPG #10650 – MDEQ RRD Program Specialist

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.

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.

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.

YouTube Videos on Geologic Phenomena of the Pacific Northwest:
<https://www.youtube.com/channel/UCJzgDS6e4qCcklywGxCyvgw>.

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.

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.

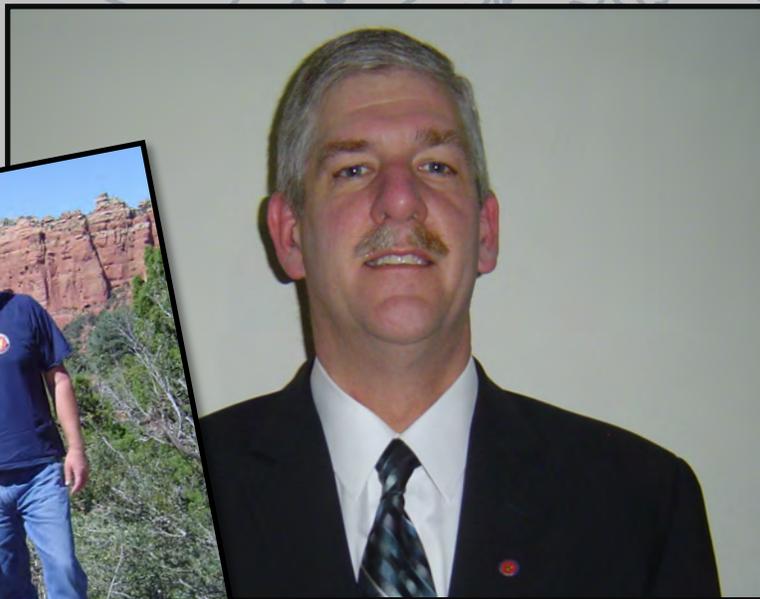
No employment opportunities or seeking employment ads were received by the Editor prior to issuing this edition of the newsletter.

Congratulations

Adam Heft



National President-Elect Nominee!



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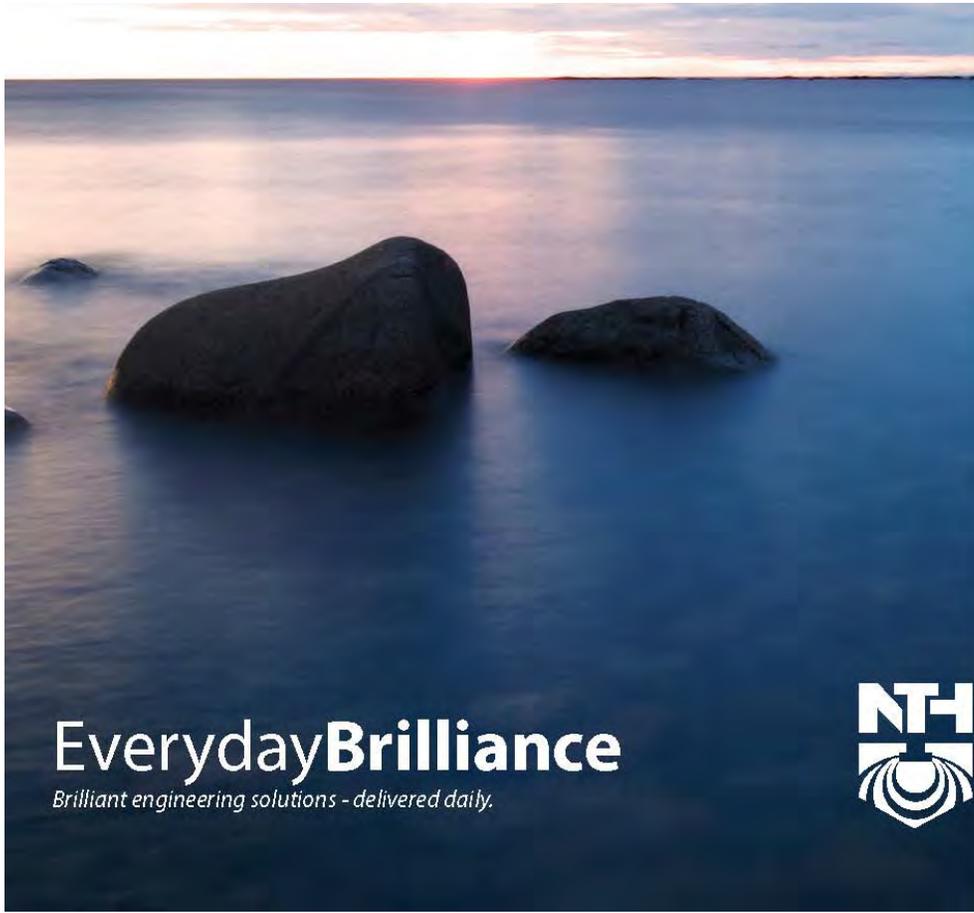
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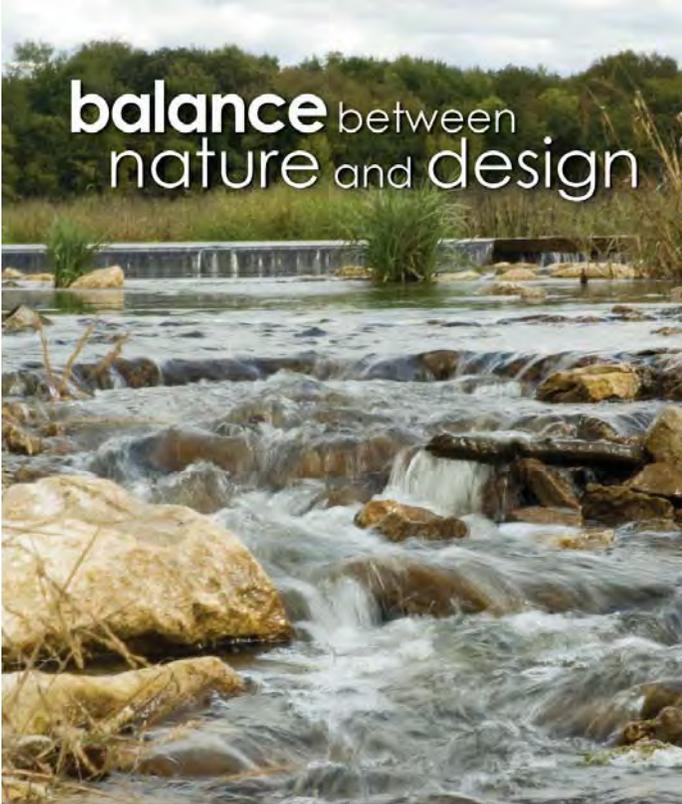
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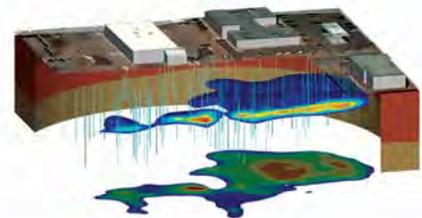
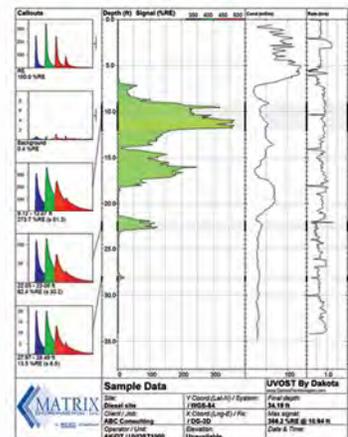
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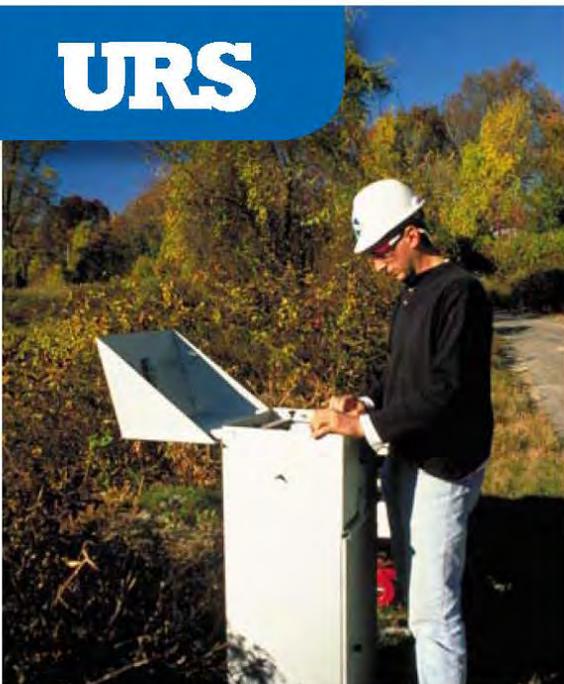
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AIPG MI Section 4th Annual Workshop GSI Characterization, Evaluation, and Compliance

Tuesday, June 17

1:00 p.m.–1:30 p.m.

A New Paradigm for GSI Pathway Compliance & Putting 10 “Options” into Perspective

Presented by: Gary Klepper and Jennifer Quigley

3:30 p.m.–4:00 p.m.

**Pore Water Characteristics as Indicators of Venting Groundwater and
Depth-Integrated Water Column Sampling (Kalamazoo River)**

Presented by: Gary Klepper and Michael Coram

Wednesday, June 18

4:00 p.m.

GSI Q&A and Viewpoints (Panel Discussion)

Presented by: Gary Klepper (CRA), Jason Lagowski (Arcadis),
Grant Trigger (Racer Trust), Bob Wagner (DEQ-RRD)

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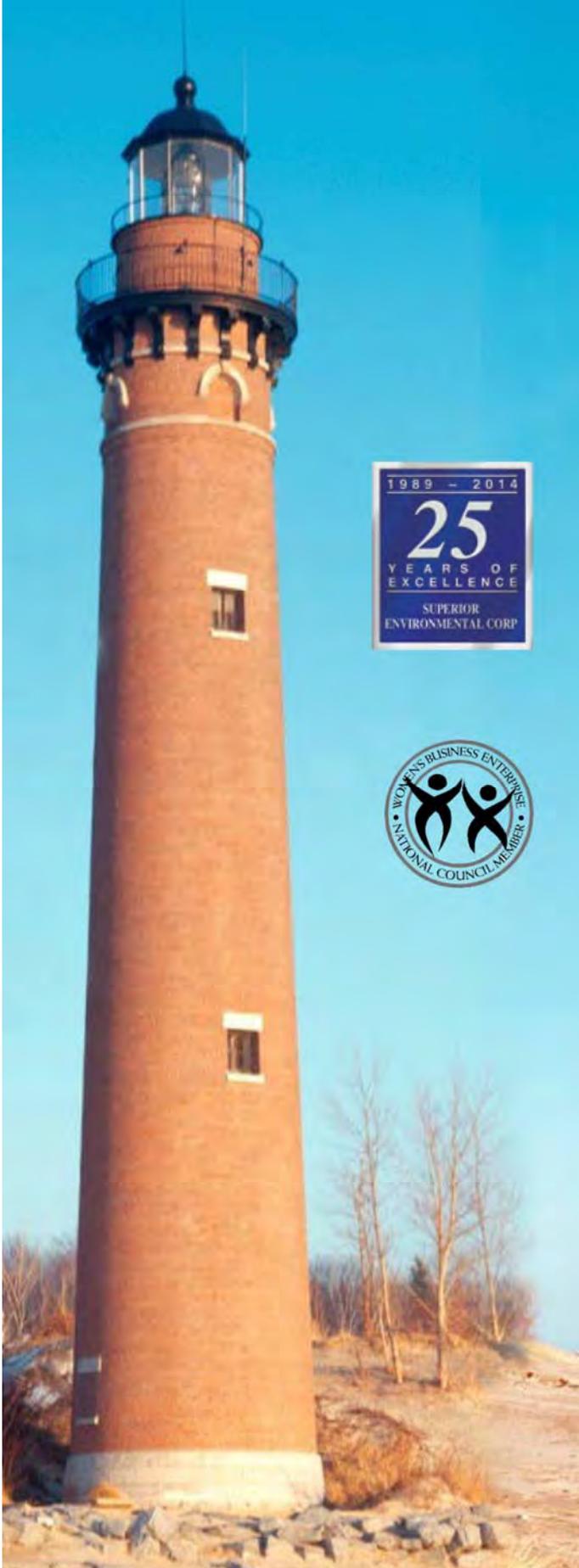
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who we are and what we do

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11th Annual AIPG Michigan Section Golf Outing

Tuesday May 19, 2015

Sponsor Information

Exclusive Dinner Sponsor- \$1,800

Investment includes:

- 1 foursome
- Highest Visibility Signage at the Event
- Corporate recognition*

Beverage Sponsors - \$700 (2)

Investment includes:

- Signage at the club house and on the Beverage Cart or Oasis.
- Corporate recognition*

Luncheon Sponsor - \$800

Investment includes:

- Signage at the grill/tent.
- Corporate recognition*

Hole-in-one Sponsors - \$500 (4)

Will have visible exposure on Par 3 Holes.

If a golfer hits a hole-in-one, the prize will be, either \$10,000, a golf vacation or a deluxe set of irons.

Tee Sponsor - \$200

(18) Available

Investment includes:

- Tee box signage

Skill Sponsors – \$500

Investment includes:

(4) Available

"Longest Drive" "Closest to Pin" awards to Male/female for each.

Putt-4-Dough – \$600 Signage on the putting area, corporate* recognition during the event (includes contest coordination at the turn and following golf provided by you).

Goodie Bag Sponsor - Give-away items for 120 or more golfers

*Dinner and Beverage Cart/Oasis Sponsors will receive AIPG membership. All sponsors will be recognized in the Quarterly News letter and on the Michigan Section Web Site.

Practice Tee Sponsor - \$400

(1) Available

Investment includes:

- Practice Tee/Range signage

Door Prize Sponsors - \$100 cash or 2 prizes with \$50 value minimum.

Logo on signage at prize table. Corporate recognition.

This event is our annual Fund Raiser. The Michigan Section of AIPG Golf fundraiser benefits the Michigan Section's ability to support K-12 education grants and scholarships.

Place: Lyon Oaks Golf Course

Event: 18-hole Scramble

Date: May 19, 2015 Tuesday

Registration: 8:00 to 9:30 AM

Tee Time: 9:30 AM

Rainout Date: May 21, 2015 (based on course availability).

Includes: Continental Breakfast, green fees, range balls, Lunch at turn, networking opportunities, and DINNER.

Also includes: 50-50 and Grand Prize raffles along with other prizes including, \$10,000, vacations, or sets of clubs for a "Hole in One", Putt-4 Dough \$2,500, men's and women's Longest Drive and Closest to Pin contests, \$20 gas cards to the four golfers traveling the furthest and goodie bag for all golfers.

Registration

Individual = \$180 if paid by April 1, \$200 thereafter

Foursome = \$600 if paid by April 1 \$680 thereafter

Player One: _____

Player Two: _____

Player Three: _____

Player Four: _____

Contact Name, Company and Phone Number for your Foursome:

Accepted forms of payment include:
Eventbrite



or

Make Checks to:

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CALL 248-773-7986 or FAX 248-924-3108 to reserve your place!

The AIPG-MI Section is a nonprofit 501(c)(6) Organization

11th Annual AIPG Michigan Section Golf Outing Tuesday May 19, 2015

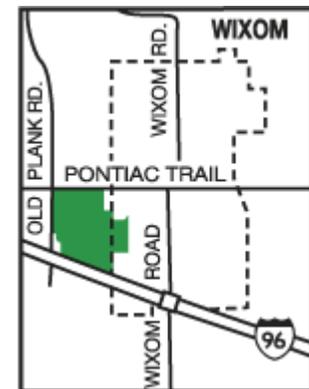


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- Wide fairways enhance playability
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- Sand bunkers and freshwater lakes provide a strategic challenge for accomplished golfers
- Multiple tees on every hole make the course playable and enjoyable by all level players
- State of the art practice facility with target greens and sand traps

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- Included in The Oakland Press' "Ten to Try This Summer" listing of Oakland County Public Golf Courses
- Member of *Arthur Hills Golf Trail*, featuring acclaimed Art Hills courses throughout the state
- Garnered a 4.5 star rating by *Golf Digest* and named the #2 course in Detroit to play in ESPN's *Sports Travel Golf Course Guide* of the Best Places to Play
- Named #4 in Jeff Lesson's Top 10 Public Golf Courses in southeast Michigan. (Lesson hosts "Lesson on Golf" on WXYT and WWJ radio stations)
- Named in Detroit Free Press *Top 10 Public Courses*



**Michigan Section
American Institute of Professional Geologists
MEETING ANNOUNCEMENT**

May 14, 2015

STATUS OF THE MARSHALL MI ENBRIDGE LINE 6B PIPELINE SPILL CLEANUP

Featured Speaker

[Jeff Kimble, On-Scene Coordinator, U.S. Environmental Protection Agency, Region 5](#)

Location: Johnson Center, Cleary University, Howell, MI (Map attached)

Cost: Students Free, Members \$30.00, Non-members \$50.00. **Registration is payable electronically via Eventbrite (see link below) or at the door by cash or check; however, prepayment is preferred and speeds up the check-in process at the door. Please note: Cancellations made within 48 hours of the meeting and/or “No Shows” will be charged and expected to pay the registration fee.**

Dinner: Taste of Italy: Manicotti with meat sauce, grilled vegetable lasagna, or chicken alfredo. Includes anti-pasta salad garlic bread sticks, and cannoli’s.

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

RSVP: On the Eventbrite website no later than May 11th at: <https://www.eventbrite.com/e/aipg-section-meeting-enbridge-update-tickets-16395110216>. You can select your meal choice and pay online if you choose, or pay at the door by cash or check if you prefer.

Abstract: The Enbridge Line 6B pipeline release of diluted bitumen into the Kalamazoo River downstream of Marshall, MI in July 2010 is one of the largest freshwater oil spills in North American history. The unprecedented scale of impact and massive quantity of oil released required the development and implementation of new approaches for detection and recovery. At the onset of cleanup, conventional recovery techniques were employed for the initially floating oil and were successful. However, volatilization of the lighter diluent, along with mixing of the oil with sediment during flooded, turbulent river conditions caused the oil to sink and collect in natural deposition areas in the river. For more than four years after the spill, recovery of submerged oil has remained the predominant operational focus of the response.

The recovery complexities for submerged oil mixed with sediment in depositional areas and long-term oil sheening along approximately 38 miles of the Kalamazoo River led to the development of a multiple-lines-of-evidence approach comprising six major components: geomorphic mapping, field assessments of submerged oil (poling), systematic tracking and mapping of oil sheen, hydrodynamic and sediment transport modeling, forensic oil chemistry, and net environmental benefit analysis. The Federal On-Scene Coordinator (FOSC) considered this information in determining the appropriate course of action for each impacted segment of the river.

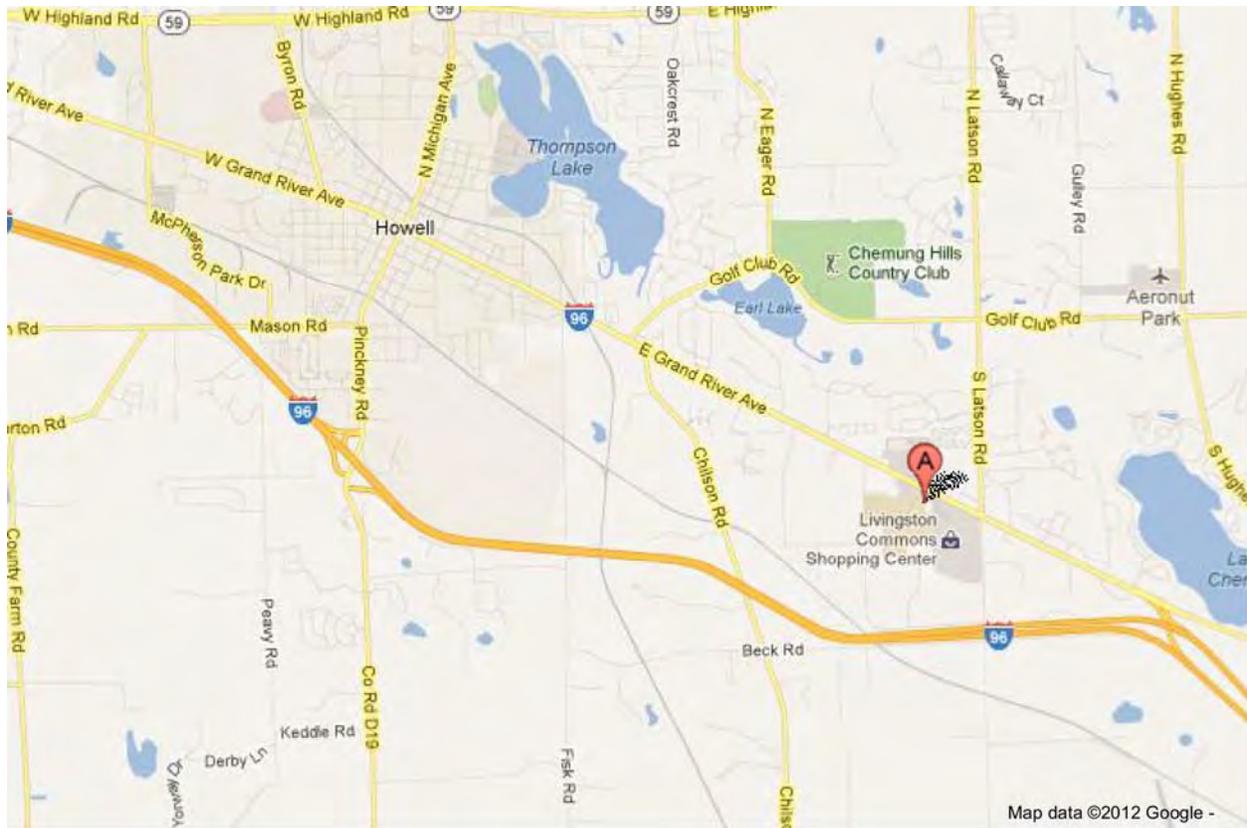
New sources of heavy crude oils like diluted bitumen and increasing transportation of those oils require changes in the way emergency personnel respond to oil spills in the Great Lakes and other freshwater ecosystems. Strategies to recover heavy oils must consider that the oils may suspend or sink in the water column, mix with fine-grained sediment, and accumulate in depositional areas. Early understanding of the potential fate and behavior of diluted bitumen spills when combined with timely, strong conventional recovery methods can significantly influence response success.

Speaker Bio: Jeff Kimble is an On Scene Coordinator (OSC) with EPA in Region 5 and is stationed in Grosse Ile, Michigan. Jeff started his career as an EPA OSC in 2002 after nine years in the private sector working for various hazardous waste and technical consulting firms. He received his Bachelor’s degree in Geology in 1994 from Mount Union College.

In a career mostly spent in the emergency response realm, Jeff has experience in a varied list of regionally and nationally significant events responding both from the private sector to support operations and as an EPA OSC. This list includes the 2001 D.C. Anthrax Response, the Shuttle Columbia Recovery effort, several tours of duty after Hurricane Katrina, and most recently as the Incident Commander and FOSC of the Enbridge Line 6B Pipeline Spills in Marshall, Michigan.

AIPG Michigan Section Annual Meeting May 14, 2015

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From I-96 East: I-96 East to Exit #137 (Michigan Avenue/D-19), north onto Michigan Avenue. Turn right on Grand River. Follow Grand River through town to Grand Oaks Drive. Turn right onto Grand Oaks, then left onto Cleary Drive; OR, go through the lights at Grand Oaks and in front of the Speedway station, and turn right onto Cleary Drive.

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