



Michigan Newsletter



From the President's Desk

by Amy Hoeksema, CPG

As I sit by the lake on vacation, I thought I would tell you about why it is so important to utilize all your experiences as you go through your career. You never know when one of those experiences, even one with a small clue, could save a life.

My first job as a geologist right out of college was working on a 450-acre property that was being evaluated for a hazardous waste landfill. We were installing about 1 boring per acre in mostly glacial deposits with some bedrock drilling. It was a long project but a very good project to start on since we used all kinds of drilling methods and encountered many different types of glacial and bedrock deposits.

In a few of the holes we drilled, we encountered small pockets of methane gas within the glacial deposits. These were naturally occurring and particularly dangerous because any open flame or spark had the potential to ignite. We typically had to shut everything down, let the gas bleed off and have a 24-hour guard stand by to make sure the public didn't get too close. There were two clues that stuck in my head that indicated we were encountering a pocket. One, the augers would drop due to little to no resistance and then there would be a gurgling

sound. At that time, work had to stop so that we could evaluate whether and when it was safe to resume work.

I never really thought that this experience would help me one day save lives, but about 20 years later, I was managing a large project in the New Orleans area where we were drilling near one of the levees. We had to obtain special permits because there was a concern that we could cause issues with the levees. A young field geologist was drilling one of the deep holes and he called me and explained that they encountered a sand layer where the sand was flowing into the hole and they couldn't make any progress. The drillers were taking a break and trying to figure out what they could do.

Initially, we thought maybe we were seeing the high pressure caused by drilling far below the river level, however, when I asked more questions, the geologist said that when they turned off the drill rig, he noticed that there was a gurgling sound coming from the borehole and there seemed to be a zone where the augers dropped a little. My next question was, where are the drillers and is anyone smoking at the back of the rig?

Article continues on Page 7...



Annual Golf Outing

The Section's annual golf outing was held on May 14th at Moose Ridge in South Lyon. Check out the highlights.

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Summer Field Trip

Check out what you missed on this year's Michigan Section AIPG field trip to Bancroft, Ontario.

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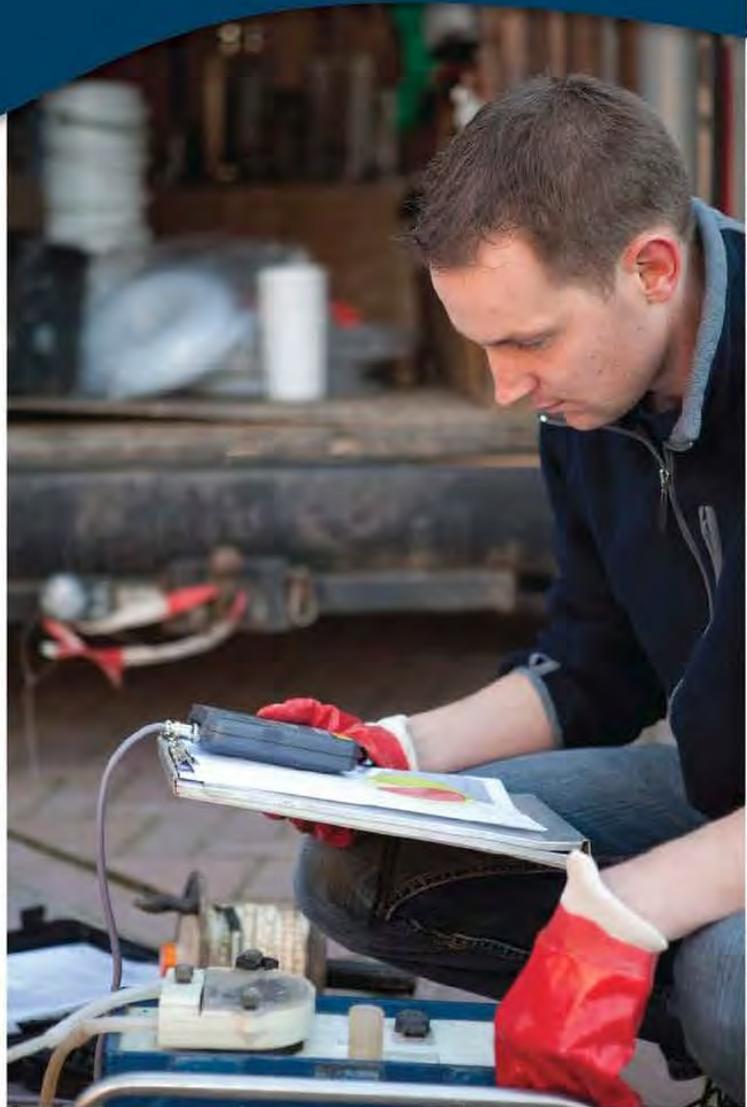


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- Continued from Page 1 -

He said "yes" and I told him to get them away from the back of the rig and to put out any cigarettes and to not start the drill rig. My next call was to the Client to ask if they had a way to measure for methane gas or explosion levels. Ultimately, we had to call the local fire department because we did not have any monitoring devices on site to measure for explosivity. The fire department came to the site and measured the levels at the back of the drill rig and determined that there was an explosion hazard.

Thankfully, no one was hurt, and we finished the job without further incident but this is a good reminder that any and all experiences that you have in your career can and probably will help you at some point. Be mindful of this, take note, you never know when one of these can help you in the future and maybe even save a life.

Michigan Petroleum Storage Tank Conference

Please seriously consider setting aside the date on your calendar for the Michigan Petroleum Storage Tank Conference —there are three date options: September 25th in Gaylord, October 9th in Grand Rapids, and October 23rd in Dearborn. Topics include UST, LUST, MUSTA, Weights and Measures, Motor Fuel Quality. I think it will be worth your time. There will be several breakout sessions in the morning hosted by the Department of Labor and Regulatory Affairs Fire Services Bureau, Environment, Great Lakes, and Energy Remediation and Redevelopment Division and Michigan Underground Storage Tank Authority and in the Southeast Michigan session members of the Michigan Department of Agriculture Weights and Measures Division and Motor Fuel Quality Division. There are also two hours set aside for people to visit different tables and talk to staff on site-specific or general questions.

The conference is targeted for owners/operators, consultants, contractors, lawyers, and State staff. There are several changes in UST inspections due to new UST rules; this is affecting all of the regulated community/LARA Hazardous Materials Storage Tank Inspectors (HMSIs) and affects the types of releases reported.

You may sign up on the EGLE events web page.. Hope to see you there!

Article submitted by Brian Muench, EGLE

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!

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.

9th Annual Michigan Section Technical Workshop News

The Ralph A. MacMullan Conference Center welcomed another sold out crowd to the 9th Annual AIPG Michigan Section Technical Workshop. The workshop has come and gone, but is not forgotten by the many attendees, sponsors, volunteers, exhibitors, presenters and demonstrators. The workshop has become known as one of the favorite and premier workshops. This year's workshop did not disappoint. Kicking off this event, Todd McAlary gave an informative and entertaining keynote address. For those of you who may have missed it, Todd is one heck of a ukulele performer. From there a discussion on Vapor Intrusion with a Q & A session provided some insight from the seasoned panel.

The weather also didn't disappoint and allowed us to enjoy our lunch at the beach on the first day. The afternoon gave way to three opportunities to listen and learn. Session A focused on Volatilization to Indoor Air, while Session B was appropriately titled Innovation. New to the workshop this year was Session C which focused on Tools & Technologies providing hands on demonstrations. This offered people real experience to the what, how and why of various technologies, strategies and procedures.



Matt Williams of EGLE demonstrating vapor intrusion sampling. Photo courtesy of Kalan Briggs.

The first day, no surprise, was a great success, which was followed by a fantastic dinner of steak or whitefish at the beach. I would like to give a special thank you to whoever kept the mosquitos at bay this year (we'll work on the fish flies for next year!) Everyone smile and say cheese as we all huddled together on the beach for the group photo shot from a drone. After dinner, the evening kicked off with the student poster session. This was a great opportunity for the up and coming professionals to network with the environmental and regulatory community.



Photo taken by the drone of everyone gathered at the beach for lunch.

Another crowd pleaser was the return of the photo booth. The variety of hats, wigs, glasses and props folks used to be incognito, even if just for a few minutes had us all laughing and smiling for the camera. The memories were captured on photo strips for years of reminiscing.

BEER! Now that I have your attention, we can't forget to thank the beer selection committee for the handpicked craft brews that were enjoyed 'responsibly' by the crowd. As the day turned to night, the talented lads of Waynesboro wooed us with their music. A tune for everyone to enjoy and dance to. Let us not forget the glow sticks. What kid (Ahem, adult) doesn't get excited when the glow sticks take center stage? This is when the dancing really began.

Article continues on Page 11...



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Student attendees with their posters. Photo courtesy of Kalan Briggs.

Who has the munchies? No problem, the Silver Dollar Pub & Grill served gourmet pizza as a late night snack to keep everyone's energy up so the dancing could continue. Accolade's to the Silver Dollar as people commented over and over how good the pizza was.

The night came to a close and a big shout out and thank you to the shuttle bus driver who made sure everyone got back to their hotels safe and sound.

Day two was rolled out with a scrumptious breakfast in the dining hall. The three sessions continued throughout the morning. The demonstrations were a big success this year and valued by the onlookers in Rooms A and B. After the Ice Cream Social we kept the pace going with another Q & A panel that allowed participants to ask just about anything related to Volatilization to Indoor Air, Emerging Contaminants and Statutory Amendments.



Participants visiting with the exhibitors during the ice cream social. Photo courtesy of Adam Heft.

As the 9th annual workshop started to wind down, those who remained were sitting with fingers crossed, rabbit's foot in their pockets, and lucky pennies in hand, hoping their name would be called for one of the fantastic, jaw dropping and sought after door prizes.

My first year as a partner with Sara as a co-chair meant I had some big shoes to fill. Each and every one of you made this workshop a

success. I wish I could personally thank every volunteer, sponsor, exhibitor, presenter and attendee personally. And last but certainly not least, THANK YOU to the wonderful staff at the RAM Center. They have the biggest job keeping all of us caffeinated, fed and watered.

2020 will mark the 10th year of the AIPG Michigan Section Technical Workshop. It may seem like a long way off, but we all know how times flies. See you all next year and thank you for your continued support.

Tammy Rabideau, 2019 Workshop Co-Chair

Where in Michigan? Contest

The May 2019 edition of the newsletter featured a photograph of stromatolites in the 2.2-2.3 billion-year-old Kona Dolomite at the Harvey Quarry south of Marquette. Allan Blaske correctly identified the photograph.

This edition features a new photograph at the top of the first page. The first person to correctly identify what the photograph depicts (feature name, location, and formation) will win AIPG swag! Submit your entry to the editor; only one per person per issue please.

Annual Meeting Planning

The Michigan Section will be hosting the 2021 Annual Meeting in Marquette. The planning committee is in the process of being put together and needs your help! The committee will be co-chaired by Adam Heft and Sara Pearson. If you are interested in helping with the planning of the 2021 Annual Meeting or would like to be on the planning committee, please email Adam at adam.heft@wsp.com or Sara at pearsons@michigan.gov.

As one of the most active AIPG Sections, Michigan wants to have an exciting program and a highly successful Annual Meeting with many attendees. If you have any suggestions or ideas that will make the 2021 Annual Meeting one to remember, please pass them along to Adam or Sara.

Look for periodic updates on the status of the Annual Meeting planning in future editions of the newsletter!

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:

Christopher Claes (MEM-3118), Stephen Pratt (MEM-3107), Connor Tierney (MEM-3103), Elisa Bermudez (SA-10052), Sean Bocek (SA-10053), Nolan Gamet (SA-9899), Kelly Garcia (SA-9900), Devyn Jesiel (SA-10020), Rachael Kluba (SA-9952), Daniel Moulton (SA-9913), Hailey Pantaleo (SA-9978), Stephanie Robinson (SA-9921), Trent Ruby (SA-9923), Charles Sind (SA-9859), Madison Wayt (SA-9989), Luke Wellman (SA-9931), Zach Williston (SA-10054), Emily Yoder (SA-9933), Shantel Johnson (YP-0494), Pablo Mora (YP-0496), Adam Mulling (YP-0493), and Daniel Wilde II (YP-0474).

To each of our new members, welcome to our Section. We encourage you to attend Section meetings and other events. You are also welcome to provide information for the Member's Corner articles.

15th Annual Michigan Section Golf Outing

May 14, 2019 was a great day with perfect weather for our 15th Annual AIPG Michigan Chapter Golf Outing. 68 players enjoyed a day of golf and camaraderie for this year's event at Moose Ridge Golf Course. Proceeds from this year's event go to support of our K-12 educational grants. The winning golf team, with an 8 under par 64, was the Sample Serve/WMU team.

The Grand Prize, a 14" HP Laptop was won by Craig Marlow of CEMCOR Marketing, and a wireless JBL speaker was won by Doug Watson, of PACE Analytical. The 50/50 Raffle was won by Dan Grebel. Skill prize winners were John McLaughlin/Jenny Roether (Long Drive awards) and Dave VanGoethem, Matt Carlson, Gretchen Watson, Dave Yost, Jenny Roether, Thomas Howe, and Cheri DeLyon (Closest to Pin awards).

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make this event happen; Cheri DeLyon and Lori Near (Fibertec) for assisting with registration and the putting contest, and Jennifer David (ERG) for helping with the hole-in-one grand prize hole and team photographs. Shawn Kriesch and Laura Lambert (ERG) also assisted with the set-up, raffles, and awards presentation. I would also like to thank the staff at Moose Ridge Golf Course for the service provided for our event.

Thanks to all attendees!

Bob Reichenbach, Golf Outing Chairman

Regulatory Roundup

We are working at a time where emerging contaminants are changing the conversation regarding how we address environmental contaminants. The more we examine emerging contaminants like per- and polyfluoroalkyl substances (PFAS), the more we discover. Efforts focusing on identifying ways to protect public health and the environment are underway and Michigan is working on leading the way. The Michigan PFAS Action Response Team (MPART) has organized technical workgroups as part of this endeavor. The Michigan PFAS Treatment Technologies roundtable is part of this effort.

The article below published by Gongwer on August 14, 2019 provides additional details about the group.

The October 18, 2019 meeting is being held in conjunction with the Great Lakes Environmental Remediation and Redevelopment Conference. This is the first-of-its-kind conference expanding beyond Michigan to include presentations on topics relevant to the US EPA, the Region 5 states, Illinois, Indiana, Minnesota, Ohio, and Wisconsin in the areas of remediation and redevelopment including a strong focus on PFAS related topics. The conference starts on October 16, 2019 featuring 2 full days of presentations, poster session, demonstrations, and exhibits from world-class experts in their fields. The event culminates with a half day convening of the MPART Treatment Technologies roundtable.

For more information, registration, and sponsor/exhibitor information, please go to https://www.michigan.gov/egle/0,9429,7-135-3308_3333-490862--,00.html.

For additional information on the latest bills related to PFAS and other environmental issues in Michigan, please search the links

below. It is time as professionals for us to join the conversation, learn from each other and work collectively to solve the complex problems facing us in the environmental industry every day.

MPART Roundtable Outlines Top Research Needs To Combat PFAS

August 14, 2019 from Gongwer News Service – Issues relating to better and faster analytics, clean drinking water and public health protection should be prioritized when assessing how best to deal with the statewide cleanup of per- and polyfluoroalkyl substances, a roundtable said this week.

These issues were raised during this week during a Treatment Technologies Evaluations roundtable discussion in Ann Arbor. The 15-person group is one of three workgroups established by the Michigan PFAS Action Response Team and will help MPART with information on new treatment technologies and initial evaluations, among other things. The other two workgroups include a Drinking

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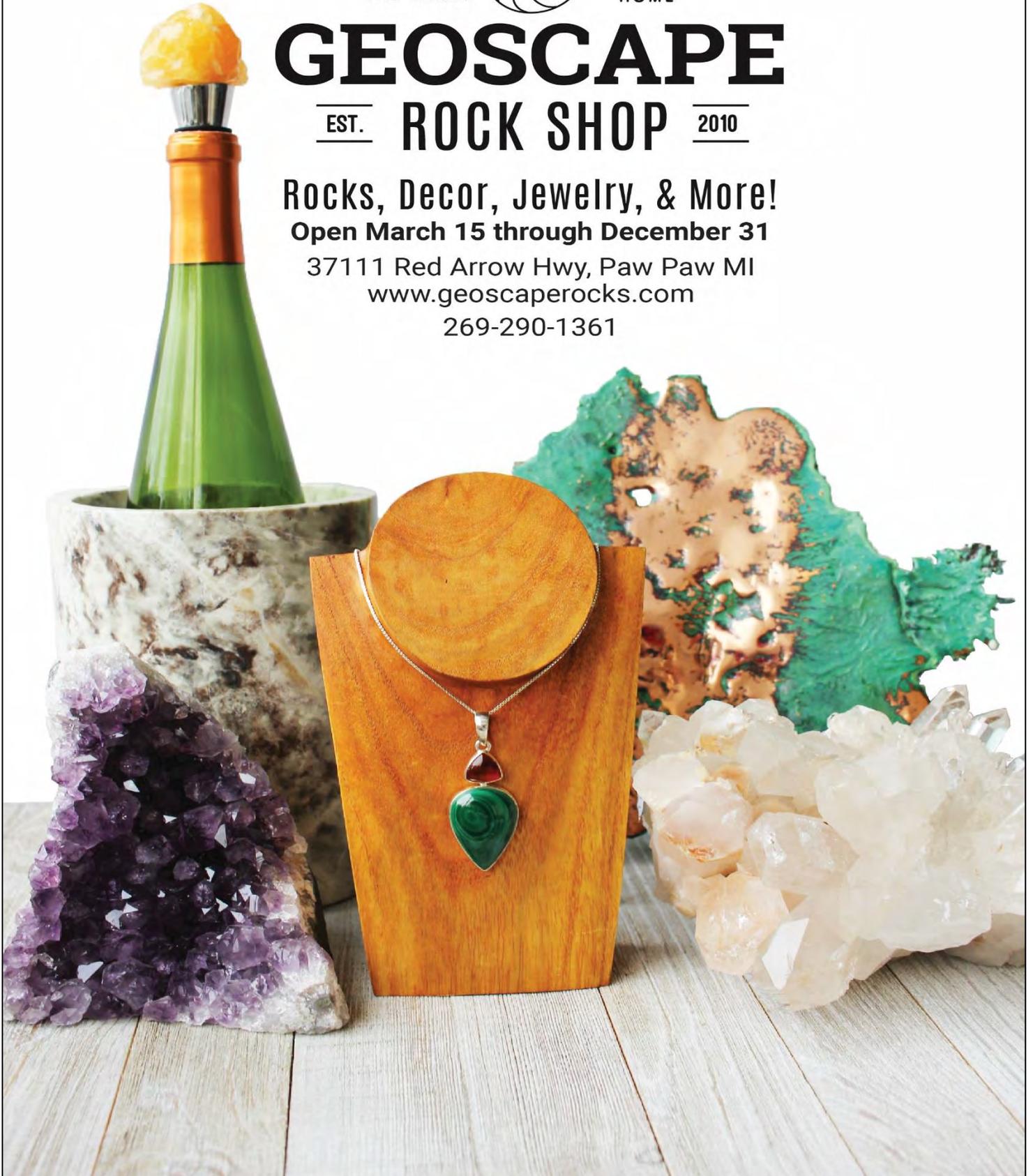
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Water Treatment workgroup and Conference Planning Committee.

Needs were broken down into seven categories: analytical/chemistry, remediation/destruction/ end of use, drinking water treatment, municipal wastewater treatment, surface water, pretreatment/leachate and other.

One of the main concerns of those present at the technologies workgroup was the slow analysis time of possibly contaminated water samples. It currently takes anywhere from four to six weeks to process samples which is frustrating for both the homeowners whose water sources are being sampled from and the samplers who want to make sure contaminated water isn't being ingested by residents said MPART Executive Director Steve Sliver.

"We have to get out in the public and say ... we'll have to let the data inform where we go next," he said. "That gets frustrating for us and that gets frustrating for the homeowners, especially when they know there's contamination in their aquifers."

Another concern of the group was that Michigan is operating in a state of being reactive rather than proactive. One roundtable member said the state, and the country, should be looking at the morphology of PFAS and PFOA – meaning what chemicals comprise it currently and what strains of these chemical compounds could look like in the future.

"Rather than look at this snapshot or PFOA and PFOS, what's the whole movie look like," said one member. "We should be skating to where the puck is going, rather than to where the puck is currently at."

Issues raised by the roundtable are going back toward helping the Department of Environment, Great Lakes and Energy form draft rules for clean, safe drinking water which would also create hard limits for the amount of chemicals in the parts per trillion – such as PFOS or PFOA – to be allowed in drinking water.

These draft rules are due October 1.

Mr. Sliver was hopeful about the situation, adding that "by this time next year we will have enforceable state drinking standards for water."

The next meeting is scheduled for 9:30 a.m. September 13 with another meeting scheduled on October 18 with no confirmed start time. Following the October meeting,

the group is toying with the idea of moving to a quarterly meeting schedule though no finalized decision was made at this meeting. Search for rules and bills by following the links below.

Proposed Rules

Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended, [bill search](#)

Safe Drinking Water Act, PA 399 of 1976, as amended, [bill search](#)

Gas Safety Standards, PA 165 of 1969, as amended, [bill search](#)

Article provided by Sara Pearson, CPG – EGLE RRD

2019 Summer Field Trip

This year, Michigan Section members travelled a bit farther afield than usual for the summer field trip; all the way to Bancroft, Ontario. For those that were unable to attend, you missed a great time!



Trip participants ready and raring to go. Photo courtesy of Dave Adler.

They say a picture is worth a thousand words. Rather than trying to describe the incredible locations we visited and the fun everyone had, check out the photos below; these are just a sampling of what the attendees saw and did.



Digging for apatite crystals at the smart mine/Miller property. Photo courtesy of Dave Adler.



Trip guide Alfred Newnham drilling a hole for his micro blaster with Larry Austin looking on. Photo courtesy of Dave Adler.



Tom Cok debating whether the mineral he found is too small and should be thrown back or if it's a keeper. Photo courtesy of Dave Adler.



Enjoying some tasty beverages the first evening in downtown Bancroft. Photo courtesy of Dave Adler.



Dave Patterson (left) and Alfred Newnham (right) giving the introduction to the Rose Quartz Pit. Note the size of the apatite crystal Dave is holding. Photo courtesy of Dave Adler.

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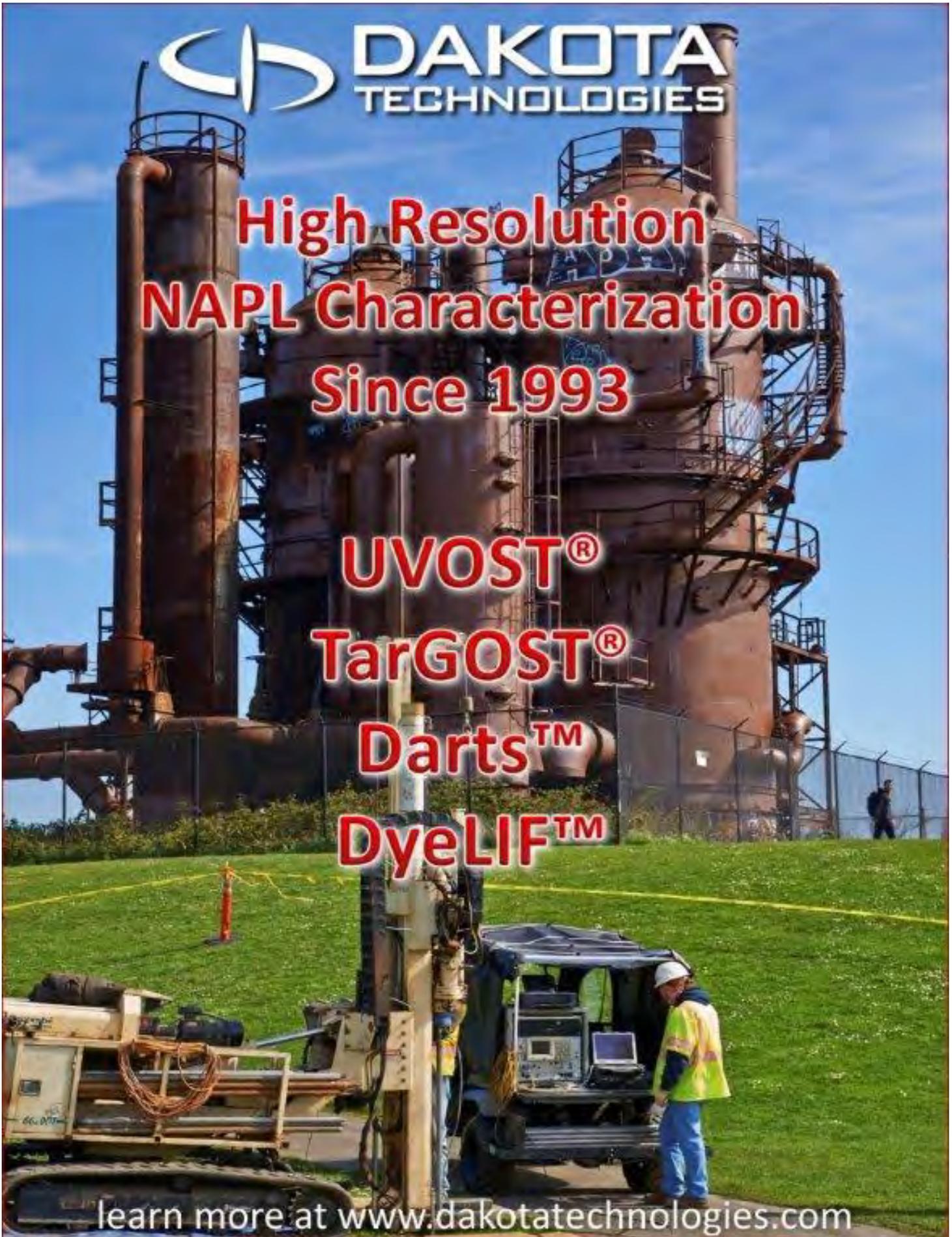
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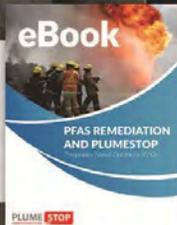
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Exploring the Rose Quartz Pit. Photo courtesy of Dave Adler.



Lunch at the Rose Quartz Pit after several hours of collecting. Photo courtesy of Dave Adler.



Digging for minerals in the Beryl Pit. Photo courtesy of Dave Adler.



Grill master Adam Heft preparing dinner on Day 2. Photo courtesy of Dave Adler.



Digging in the dumps at the Princess Sodalite Mine property. Photo courtesy of Dave Adler.

We are already thinking about possible exciting destinations for next summer's field trip. If you have suggestions on a place you'd like us to go, please drop Sara or Adam a line.

Newsletter Notice via E-mail

Make sure we have your correct email address to ensure that you continue to receive the Section newsletters and other announcements. Submit an updated e-mail address to Adam Heft at adam.heft@wsp.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.

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. This edition features a few "fun" links

U.S. Seismic Hazard Maps and Site-Specific Data:

<https://earthquake.usgs.gov/hazards/hazmaps/>.

A Tsunami Didn't Destroy These 1,747 Homes. It was the Ground Itself, Flowing: <https://www.youtube.com/watch?v=c4sZlZ8GuMI>.

Section Website Reminders

Hey Shutterbugs! Show us the geologist's point of view and send in photographs that

you would like to share with the section. We would like to use them in this newsletter and our website. Please submit photographs that you are willing to share to Adam Heft at adam.heft@wsp.com. Don't forget to include your name and a short explanation of what the photograph depicts.

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.

2019 National Election Results

In case you missed the election results that were sent out by National on July 16th, Michigan's **Sara Pearson** was elected as National Secretary for the 2020-21 term! Please congratulate her on this achievement if you have not already done so.

The newly elected officers include:

- 2020 AIPG National President-Elect (2021 AIPG National President) — Nancy Wolverson, CPG, AIPG Nevada Section
- 2020 AIPG National Vice President — Dawn Garcia, CPG, AIPG Arizona Section
- 2020-21 AIPG National Secretary — Sara Pearson, CPG, AIPG Michigan Section
- 2020 AIPG Young Professional — Jessica Davey, YP, AIPG Colorado Section

Did You Know?

This article 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...

Section 2.3.5 of the bylaws concerns non-practicing members. "A Member may be designated "Non-Practicing" upon request at the age of 60 or older, provided that the Member is no longer actively engaged in the practice of geology for financial gain. The Executive Committee shall have the authority to reduce or waive dues payments for Non-Practicing Members, individually or as a category."

Michigan Section Members Join the Badgers for a Wisconsin Field Trip

On June 30, 2019, two members of the Michigan Section, Erica Stevenson and Curt Chapman, joined the AIPG Wisconsin Section and the National Executive Committee on a field trip to explore the geology of the

Precambrian Baraboo Range in southern Wisconsin. With the Executive Committee meeting being held the preceding day, and several other Midwest participants joining the group, the field trip was attended by members from Alaska to Florida and from California to the Carolinas.

The field trip was led by Paula Leier-Englehardt and Jayne Englebert of the Wisconsin Section. Besides the Precambrian Baraboo Quartzite, the trip included stops to view the Quaternary Geology of the area as well, including a lunch stop at Devil's Lake gorge, which was created by two terminal moraines from the receding Wisconsin Glacier.



Van Hise Rock on the north limb of the Baraboo Syncline. Photo provided by Curt Chapman.

With geologists from across the North America collected in one spot, spirited debates ensued concerning the structure, stratigraphy, and sedimentary features associated with the Precambrian Baraboo Quartzite, which was deposited as braided stream and tidal flat deposits 1.7 billion years ago and then deformed into the doubly plunging asymmetrical Baraboo Syncline approximately 1.4 to 1.65 billion years ago. Evidence of the syncline itself was directly observed at several stops on both the south and north limbs as documented by the photo above at Van Hise Rock, which is a National Historic Landmark and an outcrop of vertically dipping phyllite sandwiched

between two layers of quartzite located on the north limb of the Baraboo Syncline.

The trip concluded with a tour of the historic Wollersheim Winery/Distillery. The winery was originally developed in the 1840's and has historic ties to the development of the Sonoma California wine business via the founder from Hungary, who discovered that his European grape vines were no match for Wisconsin's winters and so he relocated to the Sonoma Valley, where he used his European vines to establish the first commercially successful winery in the valley. At the Wollersheim winery, participants toured the vineyards and wine making areas, and had the opportunity to taste the wines produced onsite. As always, a good time was had by all, which is what you would expect

No Members Corner articles were received for this edition of the newsletter.

We Need You!

The Michigan Section needs your help! From providing articles or other content for the newsletter, to stepping up to volunteer to run for section office or being part of a committee, serving as a mentor for students, or helping out and participating at section events, please consider giving a little of your time and expertise back to our Section. The more people that are involved, the better it is for everyone. This is your section; let's keep it active and interesting. Make the most of it!

2019 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...

2019 AIPG Michigan Section Executive Committee



Past President
Tim Woodburne



President
Amy Hoeskema



Vice President
Sara Pearson



Treasurer
Bill Mitchell



Secretary
Mellisa Powers-Taylor



Newsletter Editor
Adam Heft

when you get a group of geologists together for a day in the field.

Curt Chapman, MEM-2912

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.

Coming Events

September 14-17, 2019: 56th Annual AIPG Meeting in Burlington, Vermont. Geology in the Green Mountains: Scenic Beauty and Economic Engine. The meeting venue is the DoubleTree by Hilton Hotel Burlington Vermont. Conference. Register at: https://netforum.avectra.com/eweb/DynamicPage.aspx?Site=AIPG&WebCode=EventDetail&evt_key=30a777a6-24bc-4f8b-8ca6-812aaf1c8d80.

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AST prides itself in being an innovative, technology driven organization that has a proven record of results. In fact, AST has a **90% closure rate** of project sites. Every time AST performs a project, our goal is to achieve the site-specific cleanup standards. AST owns and maintains over 35 pieces of heavy equipment (yellow iron) and specialty in-situ remediation and environmental sampling equipment to fulfill our client's entire project needs.

Our primary goal is to provide cost-effective environmental services for a wide spectrum of projects including: soil and groundwater remediation, landfill and cap construction, demolition, and underground storage tank removal. AST's comprehensive experience allows an understanding of the critical need for environmentally sound and economically feasible services that are compliant with local, state, and federal regulations.

AST is also proud to be affiliated with Remediation Products, Inc. (RPI). RPI is dedicated to quality control and achieving site closures by utilizing **Safe, Effective, and Predictable** processes. RPI's business model is different than what you will find with other in-situ remediation product manufacturers. Primary distribution and sales of the Trap & Treat products is handled by a highly-trained international network of RPI Group Members including AST Environmental, Inc., the **National Product Distributor and Approved Installer Trainer**.





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14321 W 96th Terrace, Lenexa, KS 66215, www.jrwbioremediation.com

September, 2019: Joint Michigan Section AIPG and MAEP joint meeting. Location and details forthcoming.

September 25, 2019: Michigan Petroleum Storage Tank Conference, Gaylord. Details forthcoming.

October 9, 2019: Michigan Petroleum Storage Tank Conference, Grand Rapids. Details forthcoming.

October 11-13, 2019: Michigan Mineralogical Society, "The Show" Greater Detroit Gem, Mineral, and Fossil Show. Information is available at: www.michmin.org.

October 16-18, 2019: Great Lakes Environmental Remediation and Redevelopment Conference, Lansing Center, Lansing, Michigan hosted by Michigan Department of EGLE. Register at: [Great Lakes Environmental Remediation and Redevelopment Conference](#).

October 23, 2019: Michigan Petroleum Storage Tank Conference, Dearborn. Details forthcoming.

December 11, 2019: Michigan Section AIPG annual meeting and awards presentation, Weber's Inn, Ann Arbor.

October 3-6, 2020: 57th Annual AIPG Meeting to be held in Sacramento, California. The Role of Geoscientists for Resiliency, Sustainability and Opportunities in a

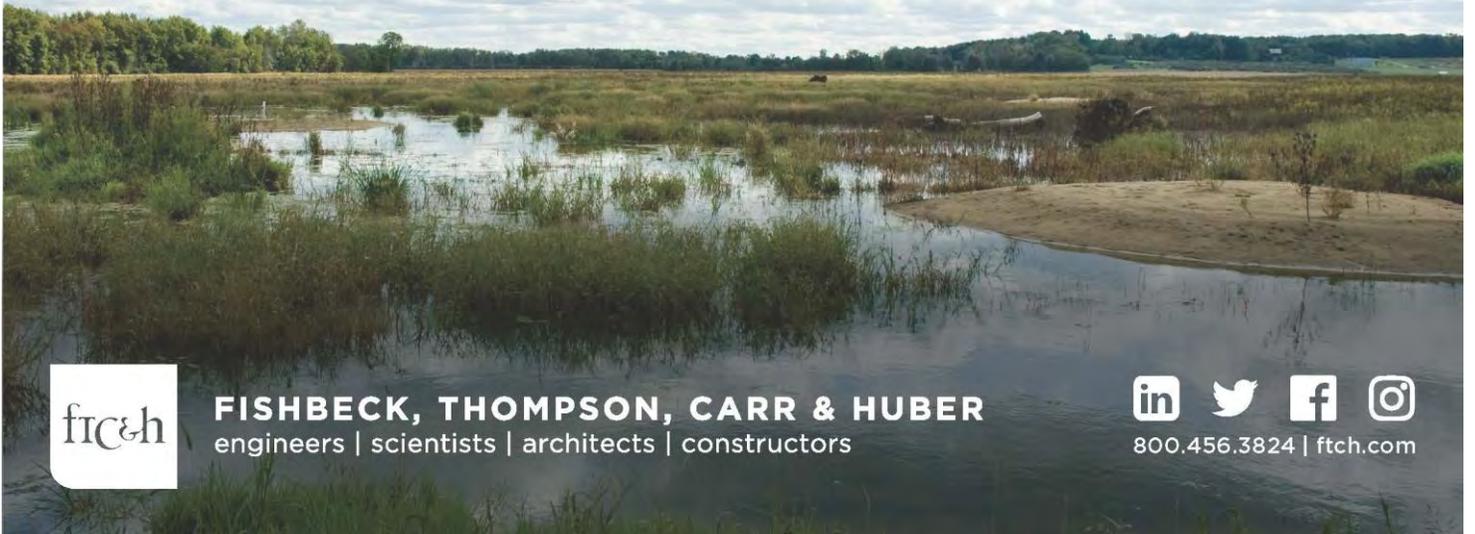
Changing Environment. The meeting venue will be the Hilton Sacramento Arden West.

Fall 2021: 58th Annual AIPG Meeting to be held in Marquette, Michigan; dates TBD. See article in this newsletter regarding meeting planning.

At Right: Goran and Tajana Kovacevic at the Rose Quartz Pit in Bancroft, Ontario.




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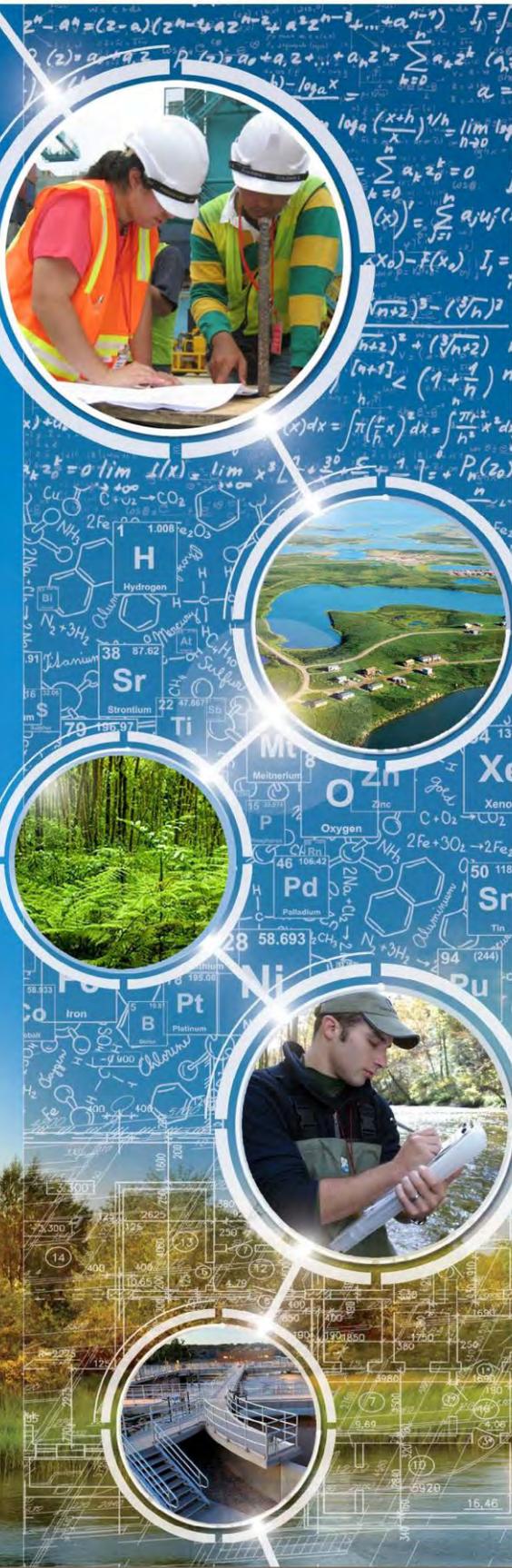
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GREAT LAKES ENVIRONMENTAL REMEDIATION & REDEVELOPMENT CONFERENCE

OCTOBER 16-18, 2019 // LANSING CENTER, LANSING

[Registration now open!](#)

Register today for the [Great Lakes Environmental Remediation and Redevelopment Conference](#), taking place October 16-18 in Lansing, Michigan. Join us to learn the latest in remediation and redevelopment in the Great Lakes region. Hear about remediation, emerging contaminants, program implementation and performance, redevelopment, and region-wide interest topics. Learn about management methods, successful solutions, and best practices.

Plenary sessions will feature keynote speakers and a presentation on the *History of Legal, Regulatory, and Scientific Response to PFAS Contamination in the U.S.* by Attorney, Robert Bilott. In addition, attendees will be able to choose from multiple sessions from the following five concurrent tracks - remediation, per and polyfluorinated compounds, program implementation and performance, redevelopment, and region-wide interest.

[View the preliminary agenda here.](#)

Who will be there?

This conference is expected to draw more than 500 environmental professionals including stakeholders from Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, the U.S. Environmental Protection Agency Region V, and the 35 federally-recognized Tribes will share perspectives and lessons learned during this comprehensive conference. Expected attendees include owners and operators of contaminated properties, realtors and developers, environmental consultants, attorneys, state and local units of government, federal and tribal agencies, and environmental organizations.

Registration Cost: \$195

(includes meals, reception, and conference materials)

Registration Deadline: September 27, 2019

**Registration and
Information**



Michigan.gov/EGLEEvents



Thursday, September 26, 2019

The Gordie Howe International Bridge Project

Walt Bolt, Mannik and Smith

Steve Hoin, EGLE

The Canadian Government is financing a new international bridge between Detroit and Windsor. The Ambassador Bridge is the busiest international bridge crossing between the two countries and a replacement is critical to that continued traffic. The effort includes the acquisition of nearly 1,000 properties on the US side. The property transfer is being facilitated by an agreement between EGLE and MDOT using a modified AAI process designed to accelerate the acquisition and to allow for cooperative decision making toward due care compliance. The project has encountered a myriad of environmental issues as a result of the industrial history of the area. Contaminants include PCBs, Asbestos, TCE, PFAS, pesticides, ubiquitous lead and multiple USTs etc. The project team has developed many innovative solutions, which will be outlined.



Thursday, September 26, 2019

5:30 p.m. – 9:00 p.m.

Mt. Brighton

4141 Bauer Rd

Brighton, MI 48116

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Schedule of Events:

5:30 p.m. – 6:15 p.m. – Registration and Cocktail Reception

6:15 p.m. – 7:15 p.m. – Dinner

7:15 p.m. – 9:00 p.m. – Presentation Followed by Questions

Registration Form

September 26, 2019

Please fill out and return to: MAEP

P.O. Box 695, Pinckney, MI 48169 • Phone: 734.498.2838 • Fax: 734.498.8415



Registration Form:

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Early Registration:

- \$55.00 – MAEP/AIPG Members
- \$40.00 – Student Members
- \$80.00 – Non-MAEP/AIPG Members

Late Registration - (Received after September 19)

- \$70.00 – MAEP/AIPG Members
- \$55.00 – Student Members
- \$95.00 – Non-MAEP/AIPG Members

Donate to the MAEP Student PDM Scholarship Fund:

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Michigan Section AIPG/MAEP Joint Meeting September 26, 2019

Mt. Brighton, 4141 Bauer Road, Brighton

