



MICHIGAN SECTION AIPG NEWSLETTER

IN THIS ISSUE

## From the President's Desk

by Amy Hoeksema, CPG

The Executive Committee has been very active in many ways as you will see in this newsletter and we have many fun and thought-provoking activities planned for 2019. I especially want to thank Tim Woodburne for his leadership as our Section's President in 2018. I've enjoyed working with everyone on the Executive Committee over the last three years; we have an awesome team, and I am honored to be the President for 2019 of this prominent AIPG Section.

This last year, I celebrated 25 years as an AIPG member, but honestly, I was not a very active member prior to joining the Executive Committee in 2016. I just didn't feel I had the time to get involved. However, I always felt that I was missing something and that I should give back to my profession. In 2015, I was let go from my employer after 16 years of loyal service; can you tell it still hurts? I thought "here is your chance to get more active in AIPG" and so it began. The last three years have flown by. I've learned a lot and feel humbled by the work that has been put in by past Executive Committee members who built a strong foundation for this Section to be successful and be able to give back. I've also really enjoyed rekindling relationships with colleagues, keeping informed

happenings in my profession and meeting new people who all have a passion, like mine, for science and rocks!

Speaking of giving back, if you were at our last annual meeting, you heard that one of my major goals for 2019 is to raise awareness of geology and geoscience as a profession in the K-12 grades. So many of our schools are cutting out geoscience from their curriculum, and we need to keep this important profession alive. I heard from a number of members after the meeting that they want to help. If you are looking to get involved and for a way to give back, here's an opportunity. We have a lot of ground to cover and could really use your help. Reach out to me or anyone on the Executive Committee if you want to get involved. We'd love to have your help!

In closing, I want to say I'm so excited for what we can accomplish in 2019. I am so thankful for this opportunity and wish you all a happy and successful new year. See you at our next meeting in February!



#### **Annual Section Meeting**

The November 29, 2018 annual section meeting was held at Weber's Inn, Ann Arbor. Find out who received awards at the meeting.

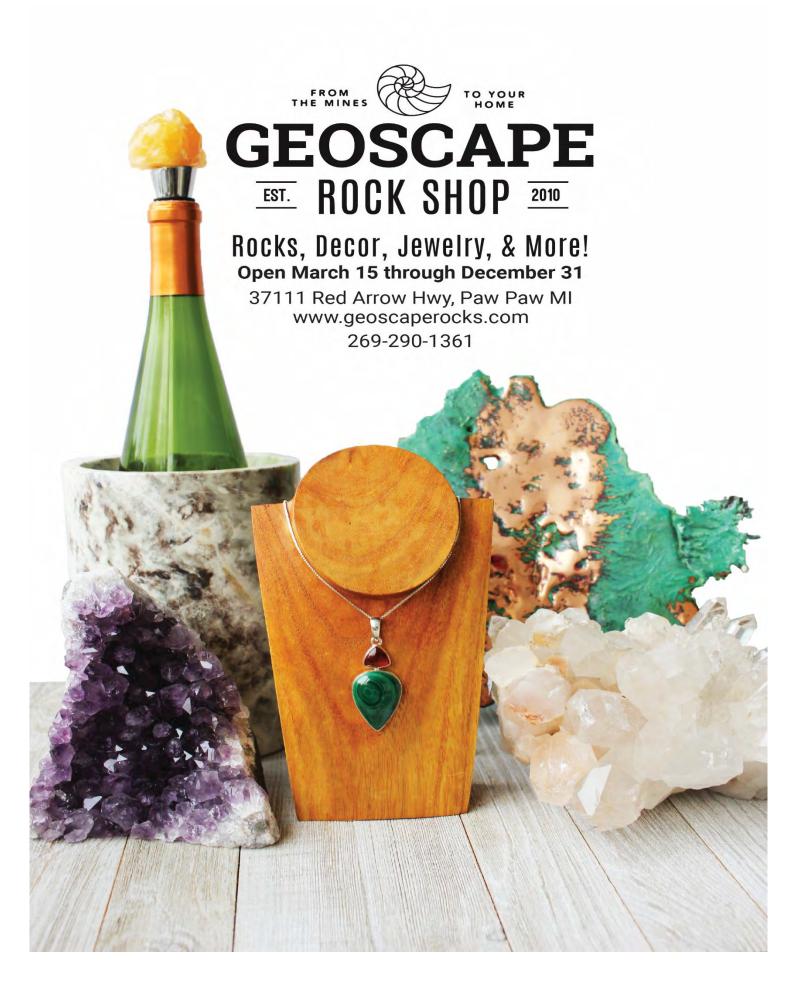
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#### 2019 Section Secretary

The results of the 2019 election are in! See who our new Section Secretary is.

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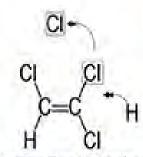
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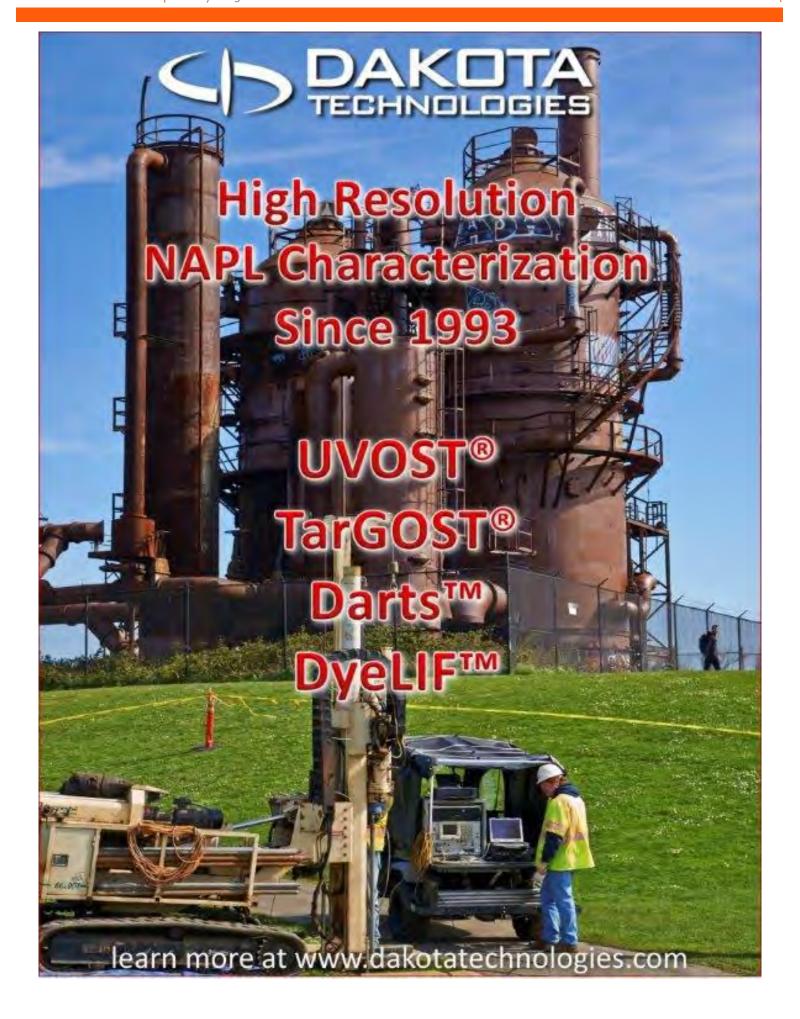
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The Section Executive Committee would like to remind its members to support the companies advertising in the newsletter. Consider working with these companies, and when you speak with their representatives, let them know that you saw their ad in the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

## ASBOG Exam Registration Information

The deadline for the March 15<sup>th</sup> Fundamentals of Geology portion of the ASBOG exam that will be administered at CMU is fast approaching. Important dates are:

January 15: apply to CMU

January 24: register with ASBOG

March 15: FG exam at CMU

Details are provided in the following link: <u>se.cmich.edu/asbog.</u>

#### Annual Section Meeting

The Section held its annual meeting on September 29, 2018 at Weber's Inn in Ann Arbor. Dr. William B. Harrison III of Western Michigan University discussed "Revised Bedrock Map of Wayne County, Michigan: An Opportunity to Reassess the Natural Resources of Wayne County."



Dr. Harrison and Peter Voice following the presentation. Photo courtesy of David Adler.

Once again, the meeting turnout was excellent, with nearly 120 members in attendance and 40 were students!

Speaking of students, 10 entered the annual student poster contest. The overall quality of the student posters was high, making it quite a job for the judges to decide on the winners. The undergraduate winners were: runner-up Max Denny of Wayne State University with his poster titled "Radon Emanation from Zircon: Potential Impacts on Reliable Geochronology" and first place winner Max Fraleigh of Eastern Michigan University with his poster titled "Fault-Slip Analysis on Mesofaults of the Ste. Genevieve Fault

System, Hickory Canyons State Recreation Area, Eastern Missouri."



Several of the student attendees enjoying dinner. Photo courtesy of David Adler.

The graduate winners were: runner-up Maria Alejandra Rodriguez Mustafa from the University of Michigan with her poster titled "The Chemistry and Textures of Magnetite from the Candelaria IOCG Deposit and the Quince IOA Prospect in the Chilean Iron Belt" and first place winner Neal Turluck of Western Michigan University with his poster titled "Changes in Annual Snow, Rain, and Temperatures in Michigan — Is Climate Change Evident?"



Max Fraleigh of EMU (left) explaining his poster to meeting attendees. Photo courtesy of David Adler.

The first-place poster contest winners each received a check for \$1,000 while the runners-up each received a check for \$500. Congratulations to each of the poster contest winners! The Michigan Section Executive Committee would like to thank all the student poster entrants for being an active part of the Michigan Section.



Neal Turluck of WMU (left) with his winning poster. Photo courtesy of David Adler.

This year, the Michigan Section also awarded two K-12 Geoscience Education Grants in the amount of \$500 each. Jeremy Cusick of Kenowa Hills High School will use his grant for hands-on groundwater flow and contamination lab models. Bryan Wertz of Ovid-Elsie Middle School will use his grant for creating models to show students how unequal heating and rotation of the earth cause patterns of atmospheric and oceanic circulation that determines regional climates.

Congratulations to both K-12 Geoscience Education Grant awardees! The Section executive committee appreciates the grant awardees being present at the meeting to share the details of their proposed programs with our members, and would like to encourage our members to pass the word to their local K-12 educators about the grants. An application form for the grant is available on the Michigan Section website; completed applications need to be submitted by the end of October for consideration by the Executive Committee.



Tim Woodburne and Mellisa Powers-Taylor presenting the 25- and 30-year Longevity Awards to several recipients. Photo courtesy of David Adler.

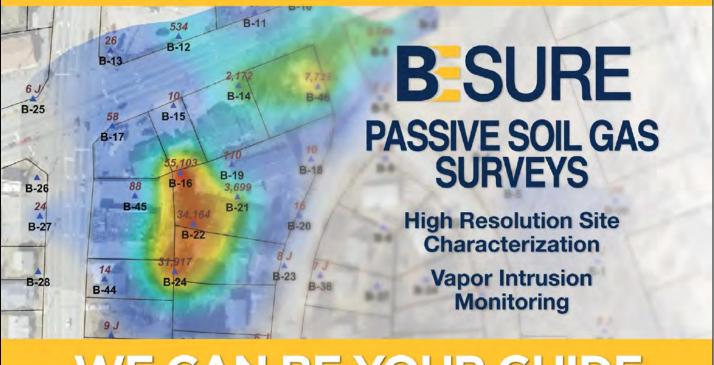
The Executive Committee also recognized its long-term members with the annual Longevity Awards. These awards are given annually to those individuals who reached AIPG membership milestones.

Five Years: Mitchell Adelman, MEM2404; Clara Brennan, SA-4748; Duane Hattem, AS-0101; Stephen Hoekwater, MEM-2354; Matthew Irvine, CPG-11640; Hans Lechner, SA-4414; Derrick Lingle, YP-0149; Cameron Manche, SA-4660; Derek Marranca, MEM-2469; Amber Pontius, YP-0073; Alanna Punch, SA-4624; Jonathon Sanders, SA-4617; Aaron Snow, MEM-2895; Zachary Spotts, YP-0192; Neal Turluck, SA-4339; and Nicklaus Welty, CPG-11649.

10 Years: Lisa Noblet, CPG-11238; Kevin Ringwelski, CPG-11211; Jennifer Ritchie, CPG-11223; Robert Sadowski, CPG-11236; Thomas Stolz, CPG-11171; and Pamela Wheeler, MEM-1517.



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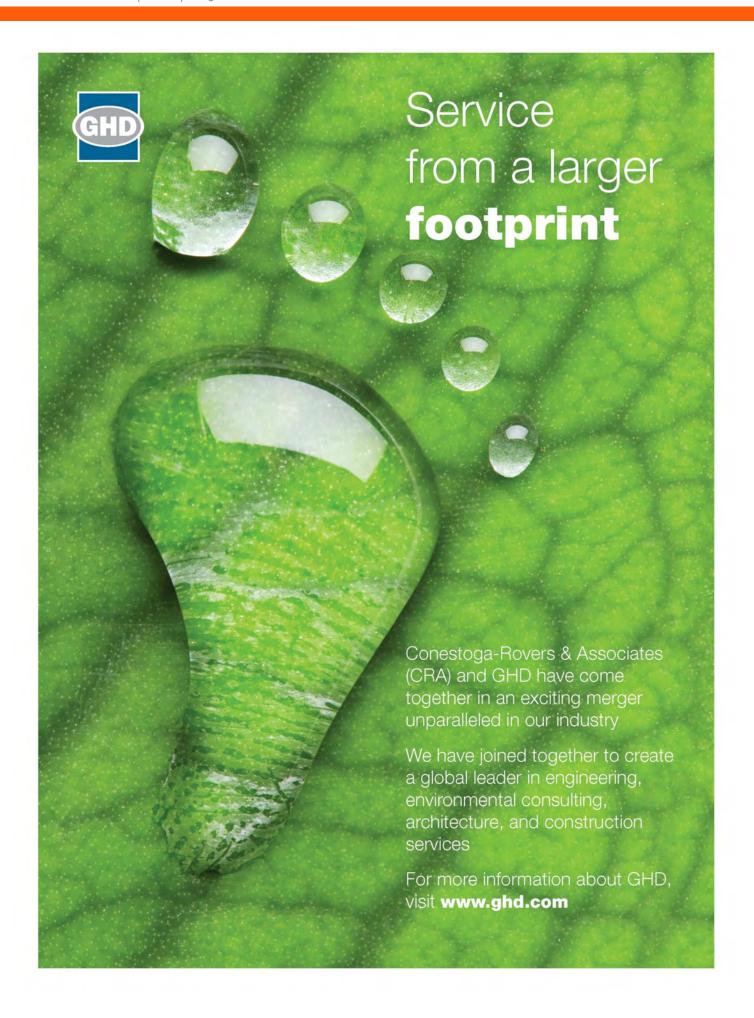




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15 Years: Michael Adams, CPG-11117; Arlene Anderson-Vincent, MEM-0248; Robin DeWyre, CPG-10747; Michael Friedhoff, CPG-1093; Randall Glass, CPG-10861; Michael Ingersoll, MEM-0547; Michael Kovacich, CPG-10753; Nicholas Larabel, CPG-10754; Daphne McNeary, MEM-0464; Tammy Rabideau, CPG-11021; Michelle Racz, CPG-10732; Tracy Repp, CPG-11119; Karyn Selle, MEM-0200; and Kristine Shimko, CPG-10771.

20 Years: Adam Heft, CPG-10265; Bridget Klueger, CPG-10369; Dawn Prell, CPG-11222; Frederick Simms, CPG-10292; Mark Peterson, CPG-10345; Michael Kasenow, CPG-10324; Paul Bartz, CPG-10368; Sara Pearson, CPG-10650; Scott Park, CPG-10371; Todd White, MEM-0095; Vincent Buening, CPG-10318; and Walter Bolt, CPG-10289.

25 Years: Gregg Brettmann, CPG-08938; Amy Hoeksema, CPG-08902; Robert Reichenbach, CPG-09090; Mark Siegman, CPG-09089; Mark Sweatman, CPG-08698; and John Wise, CPG-09018.

**30 Years:** Thomas Pavlik, CPG-07536; Mark Shellhorn, CPG-07527; and John Yellich, CPG-07538.

40 Years: Robert Hilty, CPG-04360.

Congratulations to all award recipients; the Executive Committee appreciates your support and participation in the AIPG Michigan Section!

#### 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.

#### 9<sup>th</sup> Annual Michigan Section Technical Workshop News

The Michigan Section is calling for Abstracts for the 9<sup>th</sup> Annual Technical Workshop, which will be held June 11-12, 2019 at the Ralph A. MacMullan Conference Center on Higgins Lake in Roscommon County.

This year's theme is "Hazardous Substances in Groundwater, Soil, & Vapors: The New Turning Point." Please see the flyer attached to this newsletter for the Call for Abstracts, and look for more information on the program in the next edition of the newsletter, on the Section website, and via email announcements. Mark your calendars! Remember to sign up for the Workshop as soon as registration opens to ensure your spot at this very popular and event; it is sure to sell out again!

#### 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:

Michael Micallef (AS-0170), Daryl Strandberg (AS-o164), Arlene Anderson-Vincent (CPG-11963), Rafal Danigier (CPG-11968), Aaron Martin (CPG-11969), Thomas Quigley (CPG-11962), Brian Westhoff (CPG11947), Renee Whitlock (MEM-3076), Brendan Alvis, (SA-9759), Leon Bryson (SA-9788), Forrest Clark (SA-9785), Lauren DeVries (SA-9620), Gregory Ferreira (SA-9768), Lauren Galien (SA-9612), Benediktas Gaskevicius (SA-9767), Dustin Helmer (SA-9632), Zachary Henzel (SA-9756), Braedon Dale Hooker (SA-9765), Jack Hybza (SA-9691), Julia Jakonen (SA-9761), Devyn Kadlec (SA-9760), Amy Kenley (SA-9766), Eleanore Larson (SA-9751), Gjulian Mecaj (SA-9780), Julia Michienti (SA-9737), Breauna Murray (SA-9764), John Niedoliwka (SA-9757), Stephen Ogden (SA-9735), Grace Ojala (SA-9664), Madison Pengue (SA-9814), Mitchell Pepper (SA-9774), Benjamin Pummell (SA-9783), Maria Rodriguez Mustafa (SA-9781), Brendan Towle (SA-9758), Jacob VanderRoest (SA-9736), Madison Witkowski (SA-9731), Jacob Zieziul (SA-9643), Michael Micallef (YP-0170), Steven Moorhead (YP-0434), and Adam Richmond (YP-0415).

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.

## Where in Michigan? Contest

The October 2018 edition of the newsletter featured a photograph of O Kun De Kun Falls in Ontonagon County; the rock is the Jacobsville Sandstone. David Adler was the first to correctly identify 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! 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 please committee. email Adam adam.heft@wsp.com Sara or 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.

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

#### Regulatory Roundup

Happy New Year! It's now 2019, and Michigan has a new Governor, Gretchen Whitmer, the Michigan Department of Environmental Quality (MDEQ) has a new Director, Liesl Eichler Clark, and new regulatory framework for portions of the Natural Resources and Environmental Protection Act (NREPA), PA 451, 1994, as amended. Governor Whitmer plans to focus on clean water initiatives. MDEQ Director Clark has experience in the clean energy field including policy consulting. Their interest in clean water for Michigan is expected to influence environmental perspectives and policies.

Amendments to the Environmental Remediation, Part 201 of the NREPA, as well as the wetlands sections of the act were signed into law in December 2018. Those amendments are currently being reviewed by the MDEQ on the meaning of the amendments and how to implement them. If questions about VOU have implementation of the new statutory the MDEQ recommends contacting MDEQ staff for specific questions.

It is now more important than ever to participate in the conversation. We are the professionals who are experts in the environmental science that should be used to shape and form policy that are beneficial to the health and well-being Michigan's citizens.



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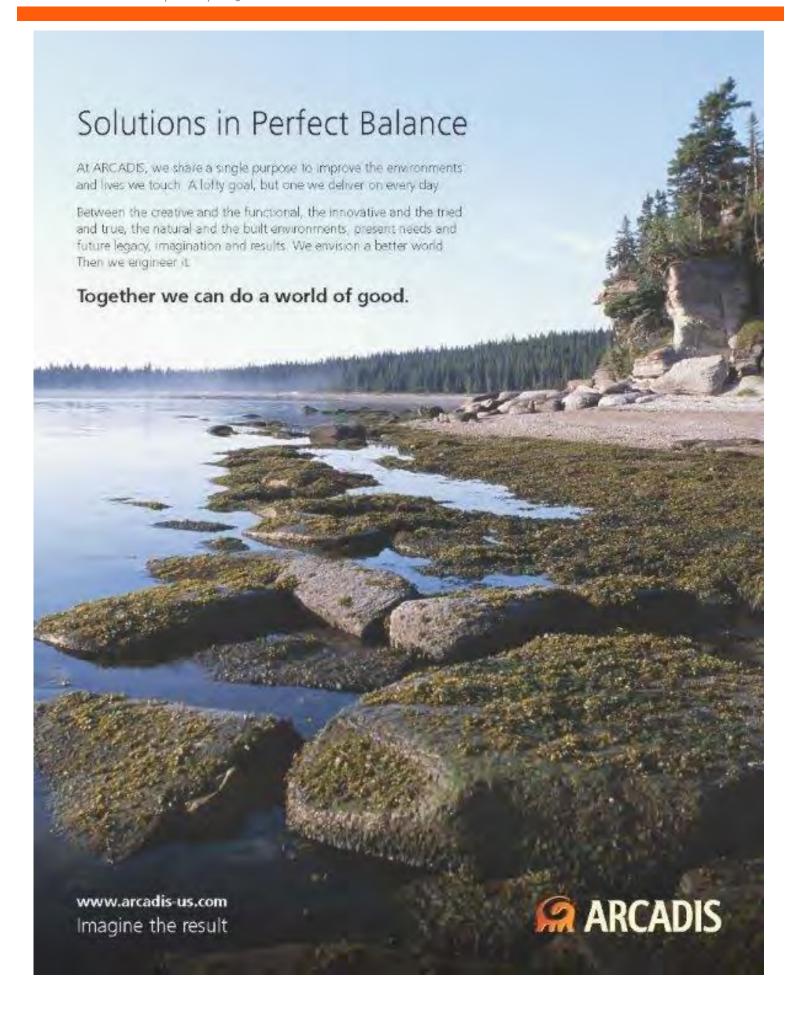
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Education and knowledge are power. We have the ability to educate people on issues that they may not even realize impacts them. We have the power to improve the credibility of our profession with the public. We are providing the following links to help you find the most current trending topics.

This edition's spotlight focuses on the amendments to the NREPA, PA 451, as amended.

The following is an excerpt from an article about the boards from the Gongwer News Service dated December 28, 2018.

## Environmental Regulations Limited Under New Laws

The incoming administration will have some curbs on its ability to implement new regulations under legislation signed Friday by Governor Rick Snyder.

Mr. Snyder said HB 4205, which requires state agencies to show clear and convincing evidence that they should exceed the federal standard, is in line with his efforts to eliminate unnecessary rules and regulations. The bill dropped language that he vetoed in earlier legislation restricting departments' ability to

set stricter standards where needed in any situation and so would not affect efforts to set standards on lead or PFAS in drinking water Mr. Snyder said.

A similar bill, <u>SB 1244</u>, would require the Department of Environmental Quality to use federal standards in developing cleanup criteria for toxic chemicals. The bill would prohibit the DEQ from setting standards for chemicals where the U.S. Environmental Protection Agency had found not enough data to set toxicity values.

In its second try, the Legislature was able to get changes to the state's ballast water regulations past Mr. Snyder. The bill (HB 6465) is similar to legislation vetoed earlier in the session that essentially adopts the U.S. Coast Guard requirements for treating ballast water in ocean-going vessels, though eliminates a loophole that had alarmed environmental groups.

Mr. Snyder did not explain his signature on the bill.

The watered-down version of wetland regulations changes (SB 1211) saw the governor's signature Friday. The final bill made mostly changes to the wetland permit application process and to some enforcement

provisions. Most of the changes to wetlands definitions that had drawn objections from environmental groups and others were stripped in the end. The governor noted that the bill would require negligence as an element of any violations and would allow prevailing parties in lawsuits, other than the state, to collect costs.

The state will have regulations for disposal of technologically enhanced naturally occurring radioactive material, also called TENORM under <u>SB 1195</u> and <u>SB 1196</u>. The bills signed Friday also create a \$5 per ton tipping fee to cover regulatory costs. Several Wayne County officials had urged Mr. Snyder veto those bills.

Renewable energy groups will have to try again next session for legislation that would provide new tax benefits for renewable energy installations. Mr. Snyder vetoed HB 5143 that would exempt small alternative energy systems from personal property taxes and HB 5680 that would have treated alternative energy systems as routine household maintenance when assessing homes.

Mr. Snyder, in his veto letter, said HB 5143 had remaining technical issues including giving different treatment to systems installed

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before the effective date of the bill. He said HB 5680 would have been acceptable but the bills were tie-barred so he vetoed both.



Article provided by Sara Pearson, CPG – MDEQ RRD

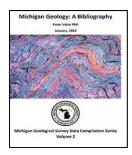
## 2019 Section Secretary Election Results

Election results are in for the Section's new secretary! This year's candidates were Mellisa Powers-Taylor, Kalan Briggs, and Curt Chapman. Votes continued to come in right up to a few hours before the deadline, and this year's election saw a record number of members participate in voting. After tallying the votes, Mellisa was announced as the Section's new Secretary for 2019. If you haven't already, please congratulate her!

#### Michigan Geological Survey News

New Survey Publication – An Updated Bibliography of Michigan Geology

John Yellich and Peter Voice, Western Michigan University Department of Geological Sciences and Michigan Geological Survey



The Michigan Geological Survey is proud to announce a new publication: Michigan Geology: A Bibliography, the second volume in the Michigan Geological Survey

Data Compilation Series. This updated compilation lists over 7,700 references from all known Michigan sources, including industry, professional associations and universities and includes publications from 1818 to present. This report documents 200 years of Geological Research in Michigan. The Bibliography is sorted into four general categories – Precambrian, Basin, Quaternary, and Other. The report is free to download at the Michigan Geological Survey's webpage: <a href="https://wmich.edu/geologysurvey/research/p">https://wmich.edu/geologysurvey/research/p</a>

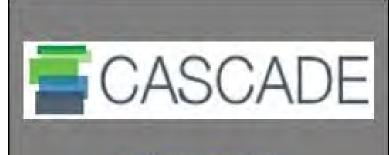
<u>ublications</u>. This updated version of the bibliography also includes a short section on Michigan Stratigraphic Nomenclature, as well as brief discussion of historical trends in publication frequency in Michigan.

## 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 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.

#### 15<sup>th</sup> Annual Michigan Section Golf Outing

Even though we find ourselves deep in the throes of winter, and thinking more about winter activities, the Michigan Section is beginning to plan for our 15<sup>th</sup> Annual AIPG Golf Outing. Please spread the word to your suppliers/colleagues and plan to participate in this event, which takes place on Tuesday May 14, 2019 at Moose Ridge Golf Course in South Lyon, MI. The rolling topography and



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excellence in design and construction makes Moose Ridge a golf course that will entice and challenge golfers of all skill levels.

Please consider a sponsorship this year. There are several different levels of sponsorship listed on the registration form. These sponsorship opportunities offer great exposure to some of the most influential professionals in our industry.

The money raised is put toward the Michigan Section's K-12 Educational Grant recipients. To insure continued success, please join us by participating, sponsoring, soliciting sponsors, and/or donating prizes or items.

This event is a great opportunity to spend time with colleagues and celebrate the return of warm weather to Michigan. It is open to everybody, so please come and take advantage of the opportunity. You need not be an avid golfer to participate. You're encouraged to take advantage of the "Early Bird" discount if you register/pay for golf by April 30, 2019.

The registration and sponsorship forms are included in this newsletter and have been posted to the Michigan Section website. Click on "Golf Outing". Forms can be e-

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mailed to <u>bob.reichenbach@ERGrp.net</u> or faxed to (248) 924-3108. You can also register/pay for golf or secure a sponsorship via **Eventbrite** at:

https://www.eventbrite.com/e/aipg-misection-15th-annual-golf-outing-tickets-54305209343?aff=ebdssbdestsearch

We hope to see you May 14, 2019!

Bob Reichenbach, Golf Outing Chairman

## Section Website Reminders

The Michigan Section has created a database of geologic photographs on 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. The photographs will be uploaded to the website periodically.

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

#### Interesting Geology Links

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

Thanks to Mark Francek of Central Michigan University for sharing via the "Earth Science Site of the Week" emails. This edition features a few "fun" links

Volcano "Surf" Boarding - Nicaragua: <a href="https://www.youtube.com/watch?v=VrmHj5">https://www.youtube.com/watch?v=VrmHj5</a> mzUFo.

Time Lapse of Fiery Lava Swallowing Car in Hawaii:

 $\frac{https://www.youtube.com/watch?v=FpF\_1N}{qmCC8}.$ 

Six Waterspouts Form Due to the Intense Heat From a Lava Flow – Kilauea Volcano, Hawaii:

https://www.reddit.com/r/pics/comments/2p 6sbo/six\_waterspouts\_form

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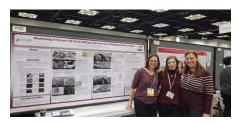
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#### **Student Chapter News**

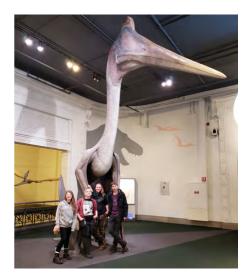
The Eastern Michigan University AIPG Student Chapter had a very successful fall semester! The chapter moved to a more student-organization friendly bank, and

held bi-weekly meetings, discussing field and graduate schools, scholarship opportunities, and gauging interest for events. The EMU AIPG Student chapter attended professional meetings, including the MAEP meeting, the AIPG monthly meetings in November & December, and GSA, where we networked, created relationships, and learned about the field. Several members, including Kayla Bicknell and Emily Nowacki (pictured below, center) presented posters.



Every month the chapter held a lighthearted event called "Faulty Films," where we watched inaccurate geology movies &

critiqued their science. On December 1<sup>st</sup>, the chapter took a group of students on a day trip to the Chicago Field Museum (pictured below).



We caught the temporary "Antarctic Dinosaurs" exhibit to learn about dinosaurs, paleoclimates, and research on the southern continent, as well as several permanent exhibits on topics including minerals, meteorites, and the evolution of life on Earth.



The EMU AIPG Student Chapter hosted multiple study sessions throughout the semester, wrapping up with a finals study session (pictured above). Upper-class students volunteered to mentor & help underclass students study for introductory lab exams. It was a blast, and many students told us the study sessions helped them prepare for their exams. We had a great first semester, and are looking forward to the winter semester!

Article submitted by Leah VanLandingham, Secretary, & Jean Butchart, Treasurer

#### Did You Know?

This article is a new feature of the newsletter and is intended to remind members of various aspects of AIPG and benefits of membership. If



ESC is a single location nationally certified full service environmental laboratory. We provide analyses on soil, groundwater, wastewater, drinking water, air, mold and TCLP matrices. With over 90,000 operational square feet on a single campus, nearly 24/7 staffing and redundant instrumentation for most analyses, our 250+ staff owners are prepared to meet today's challenges of large sample sets, low reporting limits and fast turnaround.

ESC is well positioned to serve as your primary laboratory resource in quality, service and capacity. Our demonstrated commitment to being the industry leader in certifications held, easy-to-use field ready sample kits and sample transport logistics has provided us many growth opportunities in major metropolitan areas as well as in the far off corners of the United States

Internet Access - Password Protected Web Site Custom Sampling Kits Saturday Receiving ESC is accepting the Reduced Volume methods for Groundwater samples for PAHs, DROs, SVOCs, PCBs, & Pesticides in Michigan. Using 40 mL amber vials and/or 100 mL amber jars, these Reduced Volume methods replace the 1 liter amber bottles that have previously been used.

ESC is pleased to announce the acquisition of Outreach Laboratory.

The result of this acquisition is the expansion of technologies, expertise, and capabilities of the nation's most certified and accredited laboratory to include radiochemistry testing

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Please contact Duane Hattem (616) 307-1587 or <a href="mailto:dhattem@esclabsciences.com">dhattem@esclabsciences.com</a>

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there is something you would like to see featured in this column, please contact the Editor...

Section 2.5 of the AIPG Bylaws provides the rights and privileges of the various member categories. The following is an excerpt of this section regarding Student and Associate Members:

2.5.5. Rights and Privileges of Students

Students in good standing shall have the right and privilege to:

- Participate without a vote in meetings and other activities of the Institute and of any Section to which they are assigned;
- Vote, serve on committees, and hold any offices in the Student Chapter to which they are assigned;
- 3. Receive the official publications of the Institute.

Students may not present or promote themselves as geologists or imply through their connection with AIPG that they are capable of practicing geology. However, they may present themselves as AIPG Students.

2.5.6. Rights and Privileges of Associates

Associates in good standing shall have the right and privilege to:

- Participate without a vote in meetings and other activities of the Institute and of any Section to which they are assigned;
- 2. Receive the official publications of the Institute.

Associates may not present or promote themselves as geologists or imply through their connection with AIPG that they are capable of practicing geology. Further, Associates may not use their Adjunct status to imply, directly or indirectly, any endorsement by AIPG of the Associate's products or services. However, they may present themselves as AIPG Associates.

#### 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.

The following is information provided by Mellisa Powers-Taylor, our 2019 Secretary.

I have lived in Michigan my whole life. From outdoor activities like hiking, camping, boating, and skiing, to exploring the urban beauty that can be found in the City of Detroit, I have loved living in Michigan. When starting college, I struggled to find a major that really grabbed my interest. After a few years at Wayne State I decided to turn my passion for the outdoors into a career worth exploring and joined the Environmental Science and Geology program. Our urban setting inspired an interesting perspective on the application of urban geology and allowed me to discover how much I love environmental cleanup. I love that I play a part in cleaning up and protecting the place I love for others to enjoy.

After spending most of my life in the downriver suburbs of Detroit, my husband and I relocated to a small town southeast of Lansing. Over the last few years I have really enjoyed small town life and spending time working on my hobbies, such as woodworking and art. Now that I am out of the city, I hope to soon live out my lifelong dream of raising chickens and, in the future, possibly a few llamas and goats too!

## 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...

#### **Coming Events**

February 21, 2019: Michigan Section AIPG Meeting, Location to be announced. Robert Delaney, Michigan Department of Environmental Quality Remediation and Redevelopment Division with be the featured speaker.

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 February 18, 2019.** Registration link forthcoming.

March 15-17, 2019: Michigan Gem & Mineral Society, "Igneous is Bliss" exhibition. Jackson County Fairgrounds. Information is available at: <a href="https://www.mgmsrockclub.com">www.mgmsrockclub.com</a>.

May 3-5, 2019: 60<sup>th</sup> Anniversary Rock and Mineral Show "Rockrama". Kalamazoo County Expo Center. Information is available at: www.kalamazoorockclub.org.

June 10-11, 2019: SAVE THE DATE! AIPG Michigan Section's Environmental Risk Management Workshop at the Ralph A. MacMullen Conference Center in Roscommon, Michigan. Call for Abstracts coming in November 2018.

**September 14-17, 2019:** 56th Annual AIPG Meeting to be held in the Burlington, Vermont.

#### 2019 AIPG Michigan Section Executive Committee



Past President Tim Woodburne

Treasurer

Bill Mitchell



President Amy Hoeskema



Vice President Sara Pearson



Secretary Mellisa Powers-Taylor



Newsletter Editor Adam Heft



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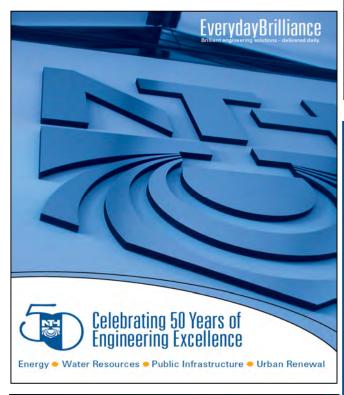
- Watershed Planning and Management
- Environmental Modeling
- Aquatic Ecosystem Assessment and Restoration
- Drinking Water Supply and Protection
- Contaminated Site Evaluation and Remediation
- Surface Water and Groundwater Characterization
- Stormwater and Nonpoint Source Water Management
- Permitting and Regulatory Assistance
- Hydrogeological Studies
- Green Infrastructure, Water Footprinting and Low-Impact Development Solutions
- Climate Change Adaption and Water Sustainability

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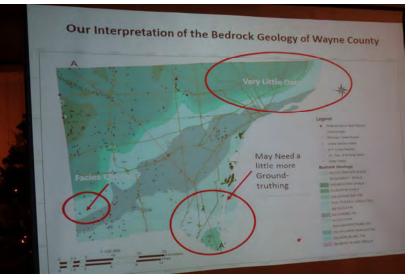
Ann Arbor, MI • Washington, DC Minneapolis-St. Paul Region • Los Angeles Region October 11-13, 2019: Michigan Mineralogical Society, "The Show" Greater Detroit Gem, Mineral, and Fossil Show. Information is available at: <a href="https://www.michmin.org">www.michmin.org</a>.

**Fall 2020:** 57th Annual AIPG Meeting to be held in Sacramento, California; dates TBD.

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









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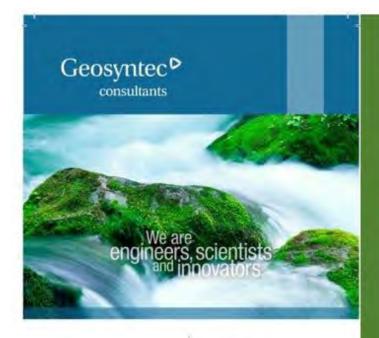
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Photo at right: Michael Kovacich with his longevity certificate.

Photo preceding page: Dr. Harrison's new Bedrock Geology Map of Wayne County.

Photos courtesy of David Adler.





#### David A.Wardwell

President

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dave@dunetechnologies.com www.dunetechnologies.com

In-Situ Remediation & Instrumentation



Photo at right: President Tim Woodburne presenting the Executive Committee with service awards.

Photo at lower right: Past President Linda Hensel with her service award.

Photo below: Jeremy Cusick of Kenowa Hills High School receiving one of the K-12 Geoscience Education Grants and informing attendees what the grant will be used for.









#### 15th Annual AIPG Michigan Section Golf Outing Tuesday May 14, 2019

The 15<sup>th</sup> Annual AIPG Michigan Section Golf Outing promises to be another successful event. Proceeds generated from the outing benefit the AIPG K-12 Education Grant fund, which provides thousands of dollars to a variety of worthy projects every year. Your generosity has been and will continue to be the key to enabling organizations and schools to provide meaningful educational programs and activities in the Geosciences.

This event also offers our sponsors exposure to many of the most influential professionals in our industry.

The outing will take place at Moose Ridge Golf Course in South Lyon, Michigan.

Place: Moose Ridge Golf Course	Registration
11801 Doane Road	
South Lyon, MI 48178	Register/Pay by April 30, \$600/foursome, \$170/Individual
	Register/Pay after April 30, \$680/foursome, \$190/Individual
Event: 18-Hole Scramble	Golfer 1:
<b>Date</b> : May 14, 2019	
	Golfer 2:
Registration: 8:00 to 9:15 am	
Shotgun Start: 9:30	Golfer 3:
Rainout Date: May 16, 2019 (based on availability)	
	Golfer 4:
Accepted forms of payment include: Eventbrite-search AIPG Michigan https://www.eventbrite.com/e/aipg-mi-section 54305209343?aff=ebdssbdestsearch	on-15th-annual-golf-outing-tickets- Please provide the point of contact for your foursome:
	7
or	Company:
Make Checks to:	
Michigan Section-AIPG	
c/o ERG	Contact:
28003 Center Oaks Ct., Suite 106	
Wixom, Michigan 48393	
Attn: Bob Reichenbach bob.reichenbach@ergrp.net	Email:
CALL 248-773-7986, or	
FAX 248-924-3108 to reserve your place!	Phone:
The AIPG-MI Section is a nonprofit	1 110110.

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, and goodie bags for all participants.

501(c)(6) Organization.

#### 15th Annual AIPG Michigan Section Golf Outing Tuesday May 14, 2019

#### Sponsor Package Information

#### Executive Copper Sponsor - \$2,500

- 1 foursome and 33% discount for additional golfers
- Highest Visibility Signage at the Event
- Corporate recognition at the awards presentation

#### **Exclusive Dinner Sponsor- \$1,800**

#### Investment includes:

- 1 foursome and 33% discount for additional golfers
- · Signage at the Dinner
- Corporate recognition

#### Beverage Sponsor - \$1,000 (2 available)

#### Investment includes:

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

#### Breakfast/Luncheon Sponsor - \$800

#### Investment includes:

- Signage at the grill/tent.
- Corporate recognition

#### Hole-in-one Sponsor - \$500 (4 available)

Will have visible exposure on a Par 3 Hole.

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 Box or Hole/Flag Sponsor - \$280

(18 available)

#### Investment includes:

- Tee box signage and
- Pin Flag with logo

#### Skill Sponsor – \$400

#### Investment includes:

(4 available)

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

#### Practice Tee Sponsor - \$300

#### Investment includes:

(1 available)

Exclusive Signage at the Practice Tee

**Putt-4-Dough Sponsor – \$400** Signage on the putting area, corporate\* recognition during the event (includes contest coordination <u>at the turn and following golf provided by you</u>). Provides interaction with all participants.

#### **Team Photo Sponsor:**

\$300 SPONSOR FEE - Signage and option to provide a photographer from your organization.

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