



MICHIGAN SECTION AIPG NEWSLETTER

Michigan Newsletter



IN THIS ISSUE

From the President's Desk

by Sara Pearson, CPG

Happy New Year!

Wow, 2020! This sounds so futuristic.

Where are the personal jet packs, flying cars, and family vacation trips to the moon? While these things may not be a part of our routine everyday lives, there are jetpacks that allow individuals to "fly," there are autonomous vehicles, and Richard Branson has launched Virgin Galactic. Technology is growing exponentially. We have smart phones, smart homes, and immediate news of happenings around the globe available at our fingertips 24-7. It's truly amazing and what's more remarkable is how critical the field of geology and geologists are to all these things.

I would argue that an important key to society's forward momentum is being able to "read" our planet. Geologists play an important, but unrecognized role in society. We take on the challenge of learning and interpreting the most ancient of "languages." Rocks tell a story. The layers, the fossils, the scars, the folds, the crevasses, the minerals, the jagged edges, the perfectly smoothed surfaces, the softness, the colors, the movement, the structure, the formation, the composition, etc... are all clues that we use to "read" the earth's history.

Understanding the language of the rocks is so important for us to locate critical minerals like aluminum, understand our environment, predict events like volcanic eruptions and earthquakes, protect the health and welfare of us all and so much more.

Reading the history helps us identify locations where critical minerals may be found. The United States Geological Survey has identified a list of 35 minerals that are critical to our national security and economy. Minerals are necessary for so many of the products that we use today. Electronic devices, construction materials, and food additives all contain minerals. Research, exploration, and production are everyday activities for geologists that the public may not consider.

The environment affects development, business activities, economic investment, recreation, food production, and more. Geologists' work contributes to the understanding of the environment to help ensure the success of these activities.

Article continues on Page 6...



Annual Section Meeting

The December 11, 2019 annual section meeting was held at Weber's Inn, Ann Arbor. Find out who received awards at the meeting.

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2020 Section Secretary

The results of the 2020 election are in! See who our new Section Secretary is.

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Engineering News Record

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-- Continued from Page 1 --

Additionally, understanding the fate and transport of contaminants in the subsurface is critical to cleanup and preventing exposure of the public to hazardous substances that have been released to the environment. Reading the subsurface is an art that geologists are well versed in doing.

The earth is a dynamic system and part of this is the constant movement of the plates. Earthquakes and volcanic activity are evidence of the movement of the plates. Recent news reports indicate volcanic activity at some of the most famous volcanoes across the globe including Etna in Italy, Krakatau in Indonesia, and Shishaldin in Alaska. Several other volcanoes have erupted in recent weeks. These eruptions result in ash advisories for communities, disrupt air travel, and injury to people. Geologists work at researching and predicting earthquake and volcanic activity every day to help people stay safe.

Without professionals in the geologic sciences "reading" the earth, we would not be where we are today, and we would not be advancing as rapidly as we are. So why am I using my president's message to the Section to describe what so many of us already know? I believe that the work we geologists do is not well understood by the public. How many people have looked surprised when you informed them that you are a geologist in Michigan AND employed? Many people seem to believe that geologists are out west mining for gold or drilling for oil. Yes, we absolutely are, and the energy sector is high on the list of what we do, but we are so much more, and we do not tell our story well.

In recent years, I have been distressed by the public's negative opinions about science. I believe that part of this negativity is that they do not understand what role we play in society and how an understanding of the science has a positive impact on their lives.

I challenge all of you to share what you do with your families, friends, neighbors, clients, legislators, and other members of the public to help us shift the public opinion. It's about education, and its January 2020, why not make a resolution to start now? Let's find ways to share what we do in engaging ways to promote our profession and ensure its long-term success.

I appreciate all of you for the important work you do every day. As President of the Michigan Section, I'm looking forward to the start of an exciting year, and let's set the

groundwork for our profession entering the new decade.

AIPG Dues Reminder!

Your AIPG dues were due and payable by January 1, 2020 for this year. Please be sure that you have renewed your membership for 2020 – it is quick and easy to renew online. If you are having trouble with the new AIPG website, you can call AIPG Headquarters ((303) 412-6205) and speak with Dorothy Combs, who can assist you with your renewal. You can also email Dorothy at dkc@aipg.org. **Members who have not renewed by February 15 will be suspended.**

Students, please make sure that you have provided your correct graduation date (month/year) to Dorothy. If you originally provided an anticipated graduation date of December 2019 (or earlier), but are still a student (even if you are a graduate student), please provide the updated information to Dorothy so that you will continue to be an AIPG student member!

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.

Annual Section Meeting

The Section held its annual meeting on December 11, 2019 at Weber's Inn in Ann Arbor. Jonathan Garrett of Consumers Energy discussed "Modernizing Aging Natural Gas Storage Fields: A Horizontal Well Case Study."



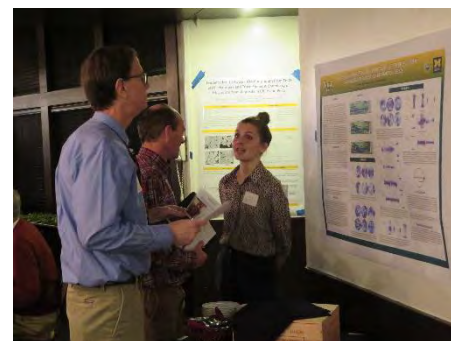
Jonathan Garrett during the presentation. Photo courtesy of David Adler.

Once again, the annual meeting had an excellent student turnout; nearly half of the 85 attendees were students!



Most of the student attendees after the awards presentation. Photo courtesy of Sara Pearson.

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.



Kelsey Hewett of WSU (right) explaining her poster to two of the poster judges (Mark Sweatman and Tim Woodburne). Photo courtesy of David Adler.

The undergraduate winners were: runner-up Kelsey Hewett of Wayne State University with her poster titled "Characterization of Deformation Fabrics in Chester Gneiss Dome Using Electron Backscatter Diffraction (EBSD)" and first place winner Sloane Kennedy of Eastern Michigan University with her poster titled "Exploring a Possible Link Between Trackless Zircons and Regional Volcanism in Northern Australia."



Sloane Kennedy of EMU (left) explaining her poster. Photo courtesy of David Adler.



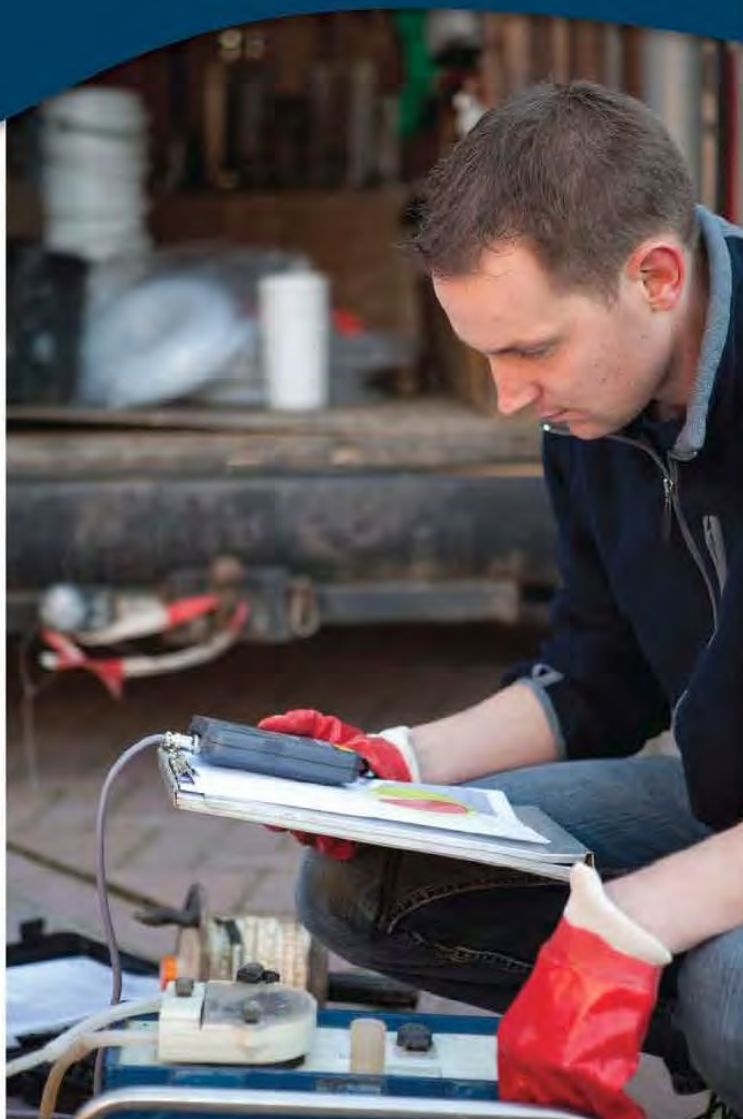
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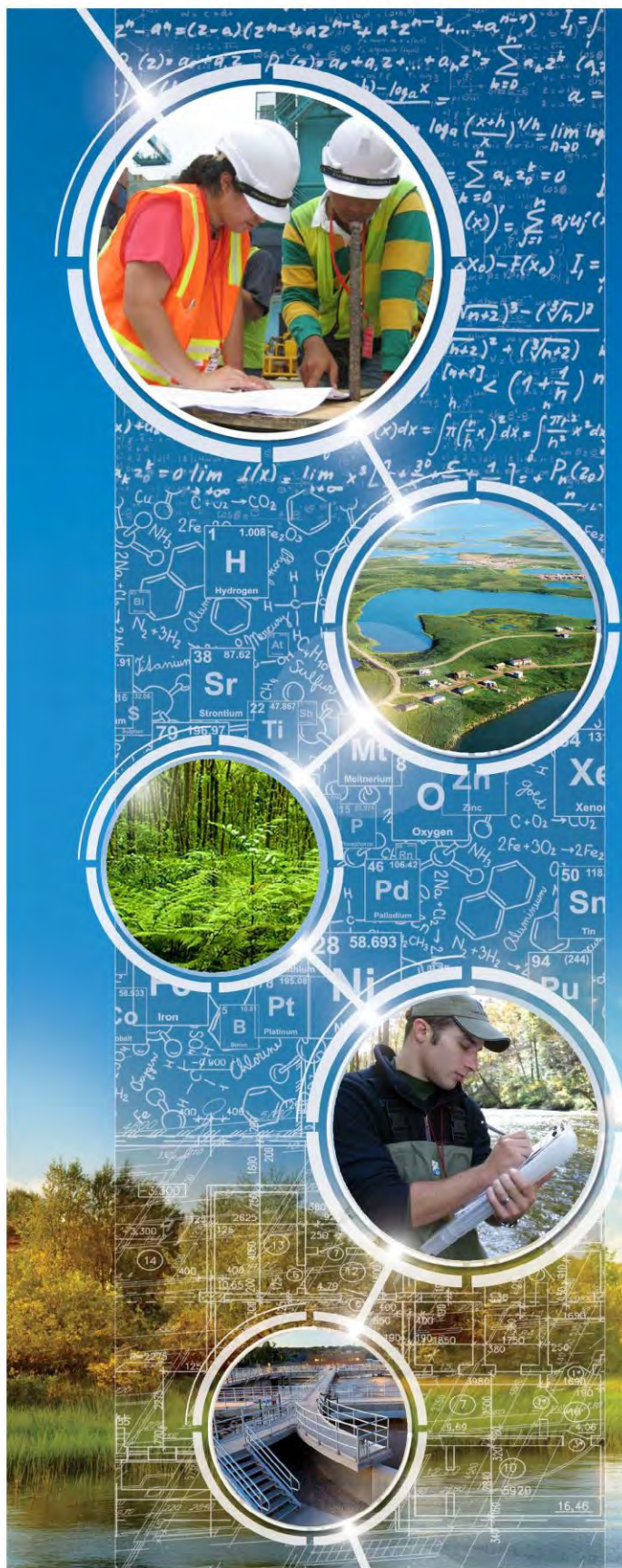


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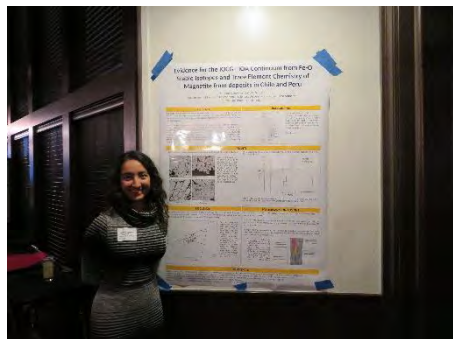
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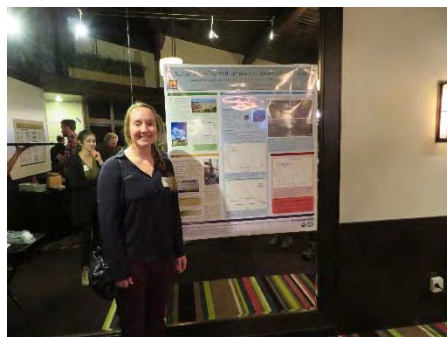
The graduate winners were: runner-up Maria Alejandra Rodriguez Mustafa from the University of Michigan with her poster titled "Magnetite Geochemistry Reveals a Continuum between IOCG and IOA Mineralization" and first place winner Jackie Wrage of the University of Michigan with her poster titled "Sulfur in Evolved Silicate Melts as a Function of Redox Conditions."



Maria Alejandra Rodriguez Mustafa of U of M with her poster. 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.



Jackie Wrage of U of M with her poster. Photo courtesy of David Adler.

For the first time in many years, the Michigan Section made an award for an Outstanding Educator. Several nominations were submitted for this award for 2019. After deliberating, the Executive Committee made

the award to Dr. Lloyd J. Schmaltz (retired) of Western Michigan University. Dr. Schmaltz's nomination follows.

Dr. Lloyd J. Schmaltz came to Western Michigan University in 1959 with a singular purpose - to develop the best possible geology program. After a stint in the United States Marine Corps, Schmaltz earned a bachelor's from Augustana College and master's and doctoral degrees from the University of Missouri at Columbia. The only geologist in the Department of Geography at the time, he taught all the geology courses and a few geography offerings, too. As the number of geologists increased, the Department of Geology was created with Schmaltz as its chairperson. He guided the department and, with the aid of a carefully chosen faculty, he directed the development of master's programs in geology and earth science. Outside of WMU, Schmaltz has chaired the Geological Society of America's Chairman's Group, was president of the North-Central Region of the National Association of Geology Teachers, and served as general chairman of the North-Central

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Region of the Geological Society of America. Trained in geomorphology and glacial geology, his interests were regional geology and landforms. He studied pediments in Arizona, and in 1974 he led the first in a continuing series of trips into the Rocky Mountains and the Southwest. Schmaltz's annual "run down the Colorado" has included college freshmen and bank presidents. He was also instrumental in developing Western's geology museum; fittingly, this impressive collection was dedicated as the Lloyd J. Schmaltz Geology Museum in 1988.

Although he retired as department chair many years ago, Dr. Schmaltz remains active in providing his input to the department and expansion and upgrading of the museum. He continues to join department events and enjoys meeting with students past and present. He has made a long-lasting impression on those who have studied in the department and has left a legacy for both the university and the Kalamazoo community with museum and recently added Dinosaur Park. If it were not for Lloyd's vision, more than 50 years ago, Western's geology program would not be what it is today; influencing the field of geology and launching the careers of geologists who have worked around the world.



2019 President Amy Hoeksema (left) and Mellisa Powers-Taylor (right) presenting Dr. Schmaltz (center) with the Outstanding Educator award. Photo courtesy of David Adler.

An Outstanding Regulator was also recognized this year. Charles (Chuck) Graff of EGLE-RRD was the recipient. His nomination follows.

Chuck is a geologists' geologist. His vast technical knowledge and field skills are top-notch. Whether Chuck is using his geochemical skills to evaluate an in-situ proposal or using his geophysical skills to log and interpret stratigraphy, or if he is constructing the geohydrologic characteristics of an aquifer in question, he

does so with the highest level of integrity, reliability and accountability. Chuck is as comfortable in hard rock as he is in unconsolidated drift. His field documentation could withstand the most brutal of legal challenges.

Chuck's understanding of subsurface drilling is so advanced that it not only provides him the ability to quickly evaluate subsurface data quality by understanding the manner in which it was and wasn't collected, but it allows him to recognize creative and innovative problem solving in the field to address problems before they become a data quality issue. He has worked with the best and the worst from a varied list of customers from government and private industry and somehow always manages to leave the situation better than how he found it.

On top of this, he likes to play guitar, ride motorcycles, work on muscle cars and make excellent maple syrup. He keeps an excellent sense of humor.

One of the qualities that most admired about Chuck is his dedication to team-work and group problem solving. He actively engages EGLE, Michigan Department of Health and Human Services (MDHHS), and EPA project

teams and subject matter experts to ensure that the best decisions are being made about a site to protect human health and the environment. He regularly shares knowledge with younger staff to help develop their technical and regulatory skills, to ensure that they become success members of the Superfund regulatory team. Chuck Graff is an extremely valuable member of the regulatory community and is very deserving of the Outstanding Regulator Award.



Amy Hoeksema (left) and Mellisa Powers-Taylor (right) presenting Chuck Graff (center) with the Outstanding Regulator award. Photo courtesy of Sara Pearson.

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.

10 Years: David Dryburgh, CPG-11288; Uday Gollapudi, CPG-11308; Andrew Graham, CPG-11257; Jon Hermann, MEM-1641; Robert Mahin, CPG-11275; Greg Miller, MEM-1700; and Bruce Ross, CPG-11306.

15 Years: Jamie Buckingham, CPG-11556; Todd Campbell, CPG-10809; Derek December, MEM-0653; Barry Harding, CPG-10832; Kevin Larr, CPG-10854; Murray Matson, MEM-0628; Douglas McVey, CPG-10862; Alan Nicholls, CPG-10825; Stephen O'Reilly, CPG-10789; Bradley Peuler, MEM-0607; Mark Schult, CPG-10784; and Stephen Young, CPG-10853.

20 Years: Gary Blinkiewicz, CPG-10406; Graham Crockford, CPG-10469; Loren Curtis, CPG-10392; Lesa Sweet, CPG-11300; Marc Wahrer, CPG-10399, and Mark Wollensak, CPG-10452.

25 Years: Douglas Barber, CPG-09117; John Barkach, CPG-09121; Michael Belsito, CPG-09237; Donald Conway, CPG-09096; Timothy Cook, CPG-09337; Mark Dekruyter, CPG-09426; Joseph Edwards, CPG-09312; Phillip Emmons, CPG-09326; Gregory Foote, CPG-09207; Hosam Hassanien, CPG-09425; Michael Hebert, CPG-09415; Hugh Heuvelhorst, CPG-09129; Alfred Jordan, CPG-09310; Timothy Mayotte, CPG-09457; Jeffrey McCormack, CPG-09102; Mark Parrish, CPG-09416; Sandra Pelowski-Bresson, CPG-09421; Michael Peters, CPG-09360; Mark Petrie, CPG-09098; Edward Radecki, CPG-09333; Michael Ripley, CPG-09450; Joseph Sarnecki, CPG-09093; Mark Seaman, CPG-09187; Jill Van Dyke, CPG-09418; Richard Verstrate, CPG-09114; Michael Wilczynski, CPG-09105; and Mark Zayatz, CPG-09211.

35 Years: Burrell (Pete) Shirey, CPG-06639.

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



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Amy Hoeksema and Mellisa Powers-Taylor presenting Pete Shirey with his 35-year longevity award. Photo courtesy of David Adler.

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.

10th Annual Michigan Section Technical Workshop News

The Michigan Section is hosting the 10th Annual Technical Workshop on June 16-17, 2020 at the Ralph A. MacMullan Conference Center on Higgins Lake in Roscommon County.

This year's theme is "The Data Tell the Story." A separate Sponsor Invitation will be coming out the week of January 20, 2020. Be sure to watch for it and sign up early as this one event sells out. Mark your calendars! Remember to sign up for the Workshop as soon as registration opens at the end of February 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:

Elana Barth (SA-10534), Serenity Chester (SA-10533), Tyler Duden (SA-10501), Kevin

Green (SA-10489), Erin McNally (SA-10450), Evangelia Murgia (SA-10481), Ryan Prchlik (SA-10518), Rahima Tufail (SA-10535), Austin Smithberger (SA-10490), Mary Whitfield (SA-10479), Shelby Wilson (SA-10491), Lucas Pommerening (YP-0609), and Jolene Traut (MEM-3161).

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

Where in Michigan? Contest

The October 2019 edition of the newsletter featured a photograph of the roche moutonnée in the undeformed pillow basalts of the Lower Precambrian Mona Schist along US-41/M-28 near Marquette. Kevin Ringwelski 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! 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.

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

ASBOG Exam Registration Information

The deadline for the March 20th 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 20: FG exam at CMU

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

Regulatory Roundup

The Remediation and Redevelopment Division (RRD) has just announced modifications to the 2013 Vapor Intrusion Guidance Document. Volatilization to the Indoor Air Pathway is complicated. The Division is now referencing the Interstate Technology and Regulatory Council's (ITRC's) guidance document on Petroleum Vapor Intrusion. ITRC is a state led coalition working to reduce barriers to the use of innovative environmental technologies and processes. The documents are prepared by both public and private industry experts on the subject to train and share technical knowledge industry-wide.

Additionally, the Michigan Department of Environment, Great Lakes, and Energy

(EGLE), Drinking Water and Environmental Health Division has held three hearings to receive public comments on proposed rules to establish maximum contaminant levels (MCLs) for seven per- and polyfluoroalkyl substances (PFAS) in drinking water. For more information, contact EGLE at EGLE-PFAS-RuleMaking@Michigan.gov or visit the [Drinking Water Rule Promulgation](http://DrinkingWaterRule.Promulgation) webpage.

RRD Announces Changes to Vapor Intrusion Guidance

The Michigan Department of Environment, Great Lakes and Energy (EGLE), Remediation and Redevelopment Division (RRD) developed the 2013 Guidance Document for the Vapor Intrusion Pathway (2013 VI Guidance) to provide information to department staff and their contractors conducting investigations and remedial or corrective actions at sites with potential volatilization to indoor air issues. The document is available as a technical reference to assist any party conducting activities to address volatilization to indoor air.

RRD has made the following modifications to the [2013 VI Guidance](#):

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Replacement of rescinded Appendix B.3 – Alternate Approach Considering Biodegradation with the Interstate Technology & Regulatory Council (ITRC) Petroleum Vapor Intrusion (PVI) guidance document, [ITRC Technical and Regulatory Guidance Web-Based Document, Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management \(PVI-1, 2014\)](#), as suitable for a petroleum vapor intrusion assessment pursuant to the relevant statutory provisions. To assist in the use of this document the department has developed a [Precluding Factors Assessment for ITRC PVI Separation Distances Checklist](#). RRD staff will use this checklist when reviewing submittals that propose to rely on the ITRC PVI separation distances.

Questions regarding the use of the ITRC PVI separation distances may be directed to the RRD VI Technical and Program Support (TAPS) Team Coordinator Jay L. Eichberger EichbergerJ@Michigan.gov or 616-446-4043, or Matthew Williams, Volatilization to Indoor Air Specialist, WilliamsM13@Michigan.gov or 517-284-5171 or the VI TAPS Points of Contact (POC) for the district where a site is located.

Modification to Table 5-2: Sampling Density in Commercial Buildings to clarify the expected sample density. There has been consistent reliance on the minimum number of samples without consideration of the building size. Language has been added to the table to clarify the minimum number of samples is only appropriate for a building that meets the minimum of the square footage listed within the table. A sample density less than what is expected from the table may be proposed but must have justification for how it will represent the building conditions.

Questions regarding the use of the department's 2013 VI Guidance may be directed to Matthew Williams, Volatilization to Indoor Air Specialist, WilliamsM13@Michigan.gov or 517-284-5171 or any of the VI TAPS POCs.



Article provided by Sara Pearson, CPG – EGLE RRD

2020 Section Secretary Election Results

Election results are in for the Section's new secretary! This year's candidates were Sydney Ruhala, Kalan Briggs, and Curt Chapman. Votes continued to come in right up to a few hours before the deadline. After tallying the votes, Curt was announced as the Section's new Secretary for 2020.

Unfortunately, Curt had to step down from the Secretary position for unforeseen personal reasons soon after the election. The Section Executive Committee therefore voted to accept the runner-up candidate from the election in Curt's place. We are pleased to announce that Kalan Briggs has accepted the 2020 Section Secretary position.

16th Annual Michigan Section Golf Outing

The Michigan Section is beginning to plan for our 16th Annual AIPG Golf Outing. Please **save the date** and plan to participate in this event which takes place on Tuesday May 12, 2020 at a yet to be determined location.

Please consider a sponsorship this year. There are several different levels of sponsorship. These sponsorship opportunities offer great exposure to some of the most influential professionals in our industry. If you don't play golf, we are always looking for volunteers to assist with the outing.

The money raised is put toward the Michigan Section's K-12 Educational Grant recipients. To ensure 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.

An announcement with the registration and sponsorship form is forthcoming. We hope to see you on May 12, 2020!

Bob Reichenbach, Golf Outing Chairman

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.

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 sites 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

Long Term Agriculture Practice Change Impacts Stream Water Quality: <https://www.soils.org/discover-soils/story/long-term-ag-change-stream-water-quality>.

Biggest Mass Extinction Caused by Global Warming Leaving Ocean Animals Gasping for Breath: <http://www.geologypage.com/2018/12/biggest-mass-extinction-caused-by-global-warming-leaving-ocean-animals-gasping-for-breath.html>.

See how Climate has Changed in your State from 1895-2019: <https://www.ncdc.noaa.gov/cag/statewide/time-series/>.

Student Chapter News



Hello and Happy New Year from the Eastern Michigan University AIPG Student Chapter!

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Our chapter has been very busy this year with five of our members presenting research posters last September at GSA in Phoenix, Arizona. Chapter President Kelly Brown (second from the right) won second place in the Hydrogeology Division undergraduate poster session.



EMU was well represented at the AIPG Michigan Section Annual Meeting at Weber's Inn, where Sloane Kennedy (back row, middle) won the award for the Undergraduate poster competition.



In October, we sponsored an Alumni career development/field professional panel held on campus in the newly renovated Strong Hall. Students learned a lot about working as a geologist from the seven alumni who participated.



In addition to educational and professional events, we've taken several field trips as a chapter, including one to the newly relocated and renovated University of Michigan Natural History Museum.



This upcoming semester we plan to host more study sessions, as well as fundraise for our activities by selling rock and fossil samples collected last summer by students attending field camp and on Dr. Gellasch's two-week geology field trip course out west. To help fund future classes of this nature, as well as students' field camp experiences, the Eastern Michigan Department of Geography and Geology created the Geology Field Experience Fund, which can be found at <https://www.emich.edu/foundation/give/index.php?fund=02512>.

Article and photos submitted by Rachel Merz, EMU Chapter Secretary



The Western Michigan University student chapter of the AIPG going into the new year strong. After our last election, we set out on a mission to strengthen our academic support for our members. Now as we start off a new year, we're making efforts to restore some of our social activities. This has usually been in the shape of day or weekend trips together to some place around Michigan. The first of these being considered is a small day trip to the ski hill a little way north of Kalamazoo where we are located. On a similar note, there is talk of a trip to some undetermined location during our spring break.

The academic support goal hasn't been left behind either. We started a textbook library in our club room for geology textbooks toward the end of last semester and has already amassed a small collection of books donated by students in the chapter. In addition, we recently got a small collection of physics textbooks that will also be added to the library!

This summer our chapter is heading out to Appalachia to study the geology of the region, and to bring younger students out for an early field experience where they can see a little bit of how to look at rocks as a geologist, as well as exposing them to a wide variety of possible interests within the field. Our

fundraising for this trip has been very effective, and we hope to reach our goal before long.

Michael Roberts, WMU AIPG Student Chapter Vice President

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 1.2 and 1.3 of the AIPG Bylaws define the purposes and powers of the Institute.

1.2 Purposes

The purposes of the Institute shall be to:

1. Advance the geological sciences and the profession of geology.
2. Establish the qualifications for professional geologists.
3. Certify the qualifications of specific individual Member geologists to the public.
4. Promote high standards of ethical conduct among its Members and Adjuncts, and within the profession of geology.
5. Represent, and advocate for, the geological profession before government and the general public.

1.3 Powers

The Institute shall establish standards of education, experience, and professional conduct to protect the public from unprofessional practices, shall monitor governmental and other activities affecting the geological sciences, and shall communicate with the public.

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 Kalan Briggs, our 2020 Secretary.

First of all, thank you for electing me as the new Secretary of the AIPG Michigan Section. I'm Kalan Briggs, and I graduated from Wayne State University in 2016 with a B.S. in Geology. I joined AIPG as a student member in 2012 and maintained a very active membership including attending most chapter meetings and annual field trips. My

college coursework was highlighted with directed studies researching anthropogenic soils throughout the Detroit area and attendance of the Clemson University Hydrogeology Field Camp. I have been working as a geologist in the environmental consulting arena for approximately five years coordinating investigation activities and reporting regarding various sites associated with Part 201 and 213 and completing massive site characterization on a variety of sites in multiple business sectors. During my young career, I have identified the unfortunate gap of knowledge between the public and the private environmental consulting world which has planted a seed of passion within me to help bring the two together. My efforts have lead me from taking the time and having small conversations, enlightening common civilians, to leading efforts in extending professional knowledge and insight to future professionals. My hope is that with the extra knowledge more individuals will have, it will provide more of an opportunity (or perhaps desire) to take action, get involved, and understand the world we live on and just how critically important it is to respect it and treat it like home.

Outside of the professional arena, my free time is spent with my wife and dog, where we take any opportunity that presents itself to get outside. Between work and home, I serve on the Michigan Association of Environmental Professional (MAEP) Board where I am involved specifically with the Annual Golf Outing committee, the Membership committee, and the joint AIPG/MAEP PDM committee. Additionally, I serve on the AIPG Workshop committee and volunteer during the event. I am professional resource to Wayne State University, Central Michigan University and Eastern Michigan University involved with mentoring students into the professional life. I have experienced firsthand just how important this organization is and look forward to contributing to its future success.

2020 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

January 30-February 1, 2020: 29th Annual No-Spills Conference. Park Place Hotel & Conference Center, Traverse City. Additional details at www.no-spills.org.

March 2020: Michigan Section AIPG Meeting, Eastern Michigan University; Details to be announced.

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

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

RSVP by March 2020. Registration link forthcoming.

March 20-22, 2020: Michigan Gem & Mineral Society exhibition. Keeley Park (formerly the Jackson County Fairgrounds). Information is available at: www.mgmsrockclub.com.

April 28-30, 2020: Great Lakes Water Infrastructure Conference, Novi. Info at: https://www.michigan.gov/egle/0,9429,7-135-3308_3333-500683--00.html.

May 1-3, 2020: 61st Anniversary Rock and Mineral Show. Kalamazoo County Expo Center. Information is available at: www.kalamazoorockclub.org.

May 20, 2020: 16th Annual Michigan Section AIPG Golf Outing. Location TBA.

June 16-17, 2020: Michigan Section's 10th Annual Environmental Risk Management Workshop: "The Data Tell the Story" at the Ralph A. MacMullan Conference Center, Roscommon, Michigan.

September 9-10, 2020: Michigan Environmental Compliance Conference, Lansing. Info at: https://www.michigan.gov/egle/0,9429,7-135-3308_3333-514064--00.html.

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.

October 9-11, 2020: Detroit Gem, Mineral & Fossil Show. Macomb Community College Expo Center, South Campus, 14500 East 12 Mile Road, Warren.

October 27-28, 2020: Great Lakes PFAS Summit, Lansing.

December 3, 2020: Michigan Section Annual Meeting, Weber's Inn, Ann Arbor.

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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Right: Radioactive Minerals from Bancroft, Ontario area from the 2019 Michigan Section field trip. The minerals are free to members that would like a sample. Leftovers will be at the Section meetings until gone.



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FUNDAMENTALS OF GEOSTEERING WORKSHOP

A one-day workshop offered by the

Ohio Geological Society

and sponsored by the Ohio Oil and Gas Association

in conjunction with the Ohio Oil and Gas Association Winter Meeting

Led by instructor: [Stephen Clark](#), Senior Technical Analyst for ROGII, Inc.

When: March 4th, 2020 from 10:00a.m. to 4:00p.m. with one hour for lunch.

Where: Hilton at Easton, 3900 Chagrin Dr, Columbus, OH 43219, [\(614\) 414-5000](tel:6144145000)

What: Stephen Clark will first discuss the basic concepts, types, and uses of geosteering. Participants will be given a time-limited version of ROGII's-Starsteer software to use in four exercises focused on horizontal well drilling in shale to demonstrate effective geosteering techniques, well planning, and data analysis.

Who should attend: Entry level or experienced geo-scientists, well operators, or those interested in or needing a refresher in planning, drilling, and completion of a modern oil and gas well, particularly in shale.

Cost : *Professional rate \$99 per person; Student rate \$80 per person (student rate limited to 6 total).*

Registration: For additional course information and online registration go to the Ohio Geological Society website at; <https://www.ohiogeosoc.org/events/geosteering-workshop/>

Overview: Geo-steering is actively adjusting the placement of a wellbore while drilling to remain within a geological target. Learn the basics of operating directional drilling and wellbore management software during this day-long workshop. Using real data from North American unconventional plays, registrants will learn effective geosteering techniques and be introduced to a variety of topics including communication of target changes, creation of structural maps and using geosteering interpretations, planning wells and post-drill analysis. A time-limited version of Starsteer software will be provided. StarSteer provides an all-inclusive, user-friendly platform for well planning, horizontal geosteering, and completion design integration for development and operations geologist or operator.

OGS will offer a **certificate for CEUs (0.5) or PDHs (5.0)** to those that mark the CEU/PDH checkbox found in the online-registration process.

IMPORTANT: Registrants must bring a laptop to the workshop to participate in the exercises.