



MICHIGAN SECTION AIPG NEWSLETTER

Michigan Newsletter



IN THIS ISSUE

From the President's Desk

by Linda Hensel, CPG

Your AIPG MI Section Executive Committee is continuing to work to ensure our 40th anniversary as an AIPG Section is especially memorable as well as continuing to provide the best speakers on various geologic topics of interest, use of new and innovative technologies and any other topics that will most benefit members, students and any other interested parties. We are also in the process of finalizing our 2017 MI Section Annual Scholarship for undergraduates. We are working on some surprises for you during 2017 to celebrate our 40th year. We urge you to review our newsletters and our website to keep abreast of our planned activities in 2017.

Our most recent quarterly meeting was held at Central Michigan University - Bovee University Center, Mt. Pleasant, MI. This meeting was well attended by students from both Central Michigan University (CMU) and Grand Valley State University (GVSU) as well as member and non-member professionals. Jeff Lippert, of US EPA Region 5 in Grosse Ile, MI spoke on his role concerning the EPA's response to the Flint water crisis which primarily was to verify the efficacy of the lead removal from the filters given to the

residents to treat the water at their drinking faucets.

The forthcoming quarterly meeting, scheduled for April 13, 2017, is a joint meeting with the Michigan Basin Geological Society (MBGS) and will be held at Hawk Hollow Golf Club, Bath, MI. We are still in the process of finalizing our speaker and topic. Our initial speaker was unable to attend the meeting due to work commitments. However, we will let you know as soon as we have finalized our speaker by announcement and invitation as soon as we can. We expect that this meeting will be a productive and enjoyable social event with members from both MBGS and AIPG MI Section working together to ensure its success.

The 2017 summer field trip, scheduled for the weekend of Friday August 11 through Sunday, August 13, is a joint event of AIPG Wisconsin and Michigan Sections. We will meet up in the Porcupine Mountain State Park (PMSP) area Friday night. Lodging is available in the park and nearby in various private and public campgrounds and motels. Professor Tom Fitz, of the Northland College

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CMU Student Chapter Activities

Members of the CMU student chapter with some GVSU students at the February Michigan Section meeting.

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Annual Golf Outing Information

The 2017 Annual Golf Outing is coming up!

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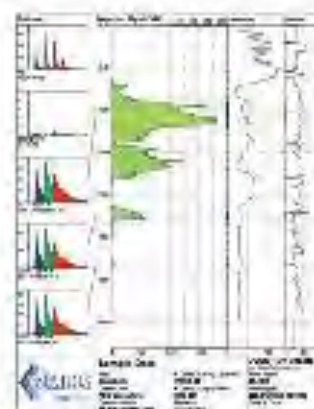
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Geoscience Department in Ashland, Wisconsin and graduate student Marine Foucher, paleomagnetism, at Michigan Technological University in Houghton, Michigan will lead the field trip. We will leave each day by bus from a central location near PMSP. Saturday we will travel 1.5 hours to start our trip at the Mellen, WI (leaving Saturday 830 AM EDT, 730 AM CDT) at the Archean rocks exposed in the south limb of the Lake Superior Syncline, then heading east to look at Oronto Group rocks at the mouth of the Montreal River. We will return to PMSP later that day and will meet Sunday around 930 AM to examine the geology of the rocks of the Keweenaw Supergroup and related intrusives of the Midcontinent Rift exposed in the PMSP area. Fantastic exposures of the Copper Harbor Conglomerate, Nonesuch Formation which show various sedimentary structures and are prevalent along the Presque Isle River in PMSP. Box lunches and bus fares are the only fees besides your overnight lodging and other meals that weekend. Full information will be provided in our 5/17 newsletter and registration will be online through Eventbrite. It will be a great trip with beautiful summer weather, fabulous rocks and fun with your family and new friends made on the trip.

February Section Meeting

The Section held its first 2017 meeting on February 9th at the University Center on the campus of Central Michigan University in Mt. Pleasant. Approximately 50 members attended the meeting, including 16 students from Grand Valley State University and the CMU Student Chapter.

Jeffrey Lippert of the US EPA Region 5, presented "The Flint Drinking Water Response." The talk focused on EPA's role in the response activities.



Meeting attendees enjoying dinner, tasty beverages, and networking with colleagues. Photo courtesy of Adam Heft.

The students that attended had a great opportunity for networking during the social hour before the meeting, and got to talk with prospective employers. In addition, the CMU student chapter had been conducting a rock sale on campus the week of the meeting, and brought their materials to the meeting to help raise funds for the chapter.



Jeffrey Lippert of the US EPA presenting his talk on the Flint Drinking Water Response. Photo courtesy of Adam Heft.

Following the presentation by Jeffrey Lippert, Sara Verbrugge-Pearson provided a brief synopsis on the Regulatory Roundup, a new feature of the newsletter. Be sure to check it out for the latest on regulatory actions in Michigan that may affect our profession. In addition, Linda Hensel provided information about the summer field trip she is coordinating with the Wisconsin Section that will be run August 11-13 in northeast Wisconsin and the southwestern part of the Upper Peninsula of Michigan. Additional details on the field trip will be forthcoming.

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.

CMU Student Chapter News



Greetings from the AIPG student chapter at CMU!

We are all proud to be part of this organization and represent our fellow geologists in and out of college. Our chapter has increased in size this past year gaining motivated students, which we have used to our advantage. We have participated in outreach activities for

our community such as Boo Bash and Kids Day, these two events focused on presenting geology to the youth in town. We made a fantastic effort this year with our rock sale and we were able to generate a substantial amount of revenue for our 2018 Spring Break adventure. The chapter will help facilitate the Science Olympiad in March as well. Not only does our organization attend outreach activities, we also attend various events and conferences. This year we loved attending the 2017 Michigan Section Meeting and we look forward to returning in the future. The CMU chapter of AIPG also plans on sending representatives to the 2017 National Annual Conference in Nashville, Tennessee.



CMU and GVSU students enjoying the February 2017 meeting. Photo courtesy of Josh Cichy.

Thank you to all who have supported and contributed to the many incredible opportunities AIPG provides the students here at CMU!

Fire Up Chips!

Joshua Cichy, CMU Chapter President

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.

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:

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Lindsey Abdale (SA-8503), Andrew Alder (CPG-11377), Reid Crawford (SA-6038), Courtney Dunaj (YP-0254), Charles Ewing (SA-8399), Kammie Hauger (SA-8405), Julie Hewlett (CPG-06661), Benjamin Hinks (SA-5013), Sadie Huggler (SA-8447), Logan LaCross (SA-8524), Olivia Lazic (SA-8450), Jaclyn Oliver (SA-8478), Lauren Schraeder (SA-3820), Aaron Snow (YP-0046), Lindsey Stone (SA-8462), Chelsea Thibodeau (SA-8495), Alexis Wildfong (SA-8467), and Adam Wrubel (MEM-2886).

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

13th Annual Michigan Section Golf Outing

Now is the time to Sign Up! There was a temporary glitch in the Eventbrite registration site. It has been fixed. You can register on [Eventbrite](#), or by searching "AIPG-Michigan Section Golf Outing" or by contacting Bob Reichenbach directly at bob.reichenbach@ERGrp.net. Ph. 248-773-7986, Fax 248-924-3108.

The outing will again be held at Moose Ridge Golf Course in South Lyon. Great sponsorships and spots for golfers are available, and they are going fast! To assist the organizers in planning, please register early. The Registration Form is provided with this newsletter.

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

Thank you for your support!

Bob Reichenbach, Golf Outing Chairman

Where in Michigan? Contest

The January edition of the newsletter featured a photograph of the top of Grand Portal Point overlooking Lake Superior in the Pictured Rocks National Lakeshore east of Munising; the rock is the Munising Sandstone. No one 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.

Regulatory Roundup

No time is better than now to unite as scientists and represent our profession as leaders in our field. We have the expertise and the knowledge about complex scientific issues for which lawmakers create policies and "citizen scientists" research on the internet believing that what they encounter is all factual. Everything on the internet is true, right?

Hardly. We need to speak up and tell people about what we do and how we help people every day. As geologists, we don't just dig up dinosaur bones, collect rocks, find oil, and predict earthquakes. We do so much more. How many of you have been given a strange look from someone when you tell them that you are a geologist in Michigan?

We need to participate in the political process and have our voices be heard. Legislative initiatives establish the trends in the industry and what we do and how we do it. It is our duty as professionals to speak up and help guide these initiatives both here in Michigan and nationally, when possible.

An example is the potential cuts to the Great Lakes Restorative Initiative recently proposed to reduce spending from \$300 million annually to a mere \$10 million for work that has done so much to improve the quality of our lakes. Is this truly a wise decision? Let our representatives know what the impacts will be.

At the state level, we have listed many new rules and regulations as well as bills up for consideration by the legislature with a direct link to the rule, regulation or bill and a brief description and status. The DEQ is also facing shortfalls in funding this year too with brownfield grant and loan money about to dry up and many bills are up for consideration for programmatic changes.

EMERGENCY RULES

[1,4-Dioxane](#) – Establishes Cleanup Criteria for 1,4-Dioxane. **Effective from October 27, 2016 until April 27, 2017.** The DEQ expects to renew the emergency rule for an additional 6 months after the April 27, 2017 expiration date.

NEW RULES

[2014-153 EQ Part 1. General Provisions and 2014-154 EQ Part 2. Air Use Approval](#) - New rules that provide some additional exemptions from permits and change some limits, but still would require most emissions to be regulated. **Effective December 20, 2016.**

RULES UP FOR CONSIDERATION

[2015-094 EQ](#) Environmental Contamination Response Activity – Remediation and Redevelopment Division - Revision of Cleanup Criteria under Part 201 Environmental Remediation Act.

[2016-003 EQ](#) Part 6. Emission Limitations and Prohibitions-Existing Sources of Volatile Organic Compound Emissions – Air Quality Division – These rules are meant to transfer adoptions by reference to another rule section, to clarify testing requirements for cutback and emulsified asphalts in R 336.1618, and to simplify references to federal test methods by making the citations consistent throughout the Part 6 rules.

[2016-007 EQ](#) Hazardous Waste Management - Office of Waste Management & Radiological Protection – The purpose of these rules is maintain federal authorization to administer the state's Hazardous Waste Management Program under Act 451 in lieu of the federal Hazardous Waste Management Program under the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984; to improve the overall quality of the rules, both in terms of clarification of existing requirements and areas of program coverage; and to reduce some of the regulatory burdens on the regulated community by providing streamlined and flexible requirements.

[2016-037 EQ](#) Water Resources Protection -- Part 17. Soil Erosion and Sedimentation Control – Water Resource Division - The Michigan Department of Environmental Quality (MDEQ), in partnership with the Michigan Department of Transportation (MDOT) and the County Road Association of Michigan, would like to revise the definition of landowner to provide for entities authorized by transportation agencies to perform work in the right-of-way to obtain soil erosion permits from the appropriate permitting agencies when permit coverage is required.

[2017-006 EQ](#) – Part 9. Emission Limitation and Prohibitions-Miscellaneous – Air Quality



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Division – The purpose of these rule revisions is to update material adopted by reference in R 336.1902; to correct emission limits in R 336.1973 to align with the federal emission limits; to add R 336.1974 as a new rule for existing commercial and industrial solid waste incinerators; and to add R 336.1975 as a new rule for existing landfills.

NEW LAWS

Public Act 380 of 2016. Effective March 22, 2017. - Modifies requirements for underground storage tanks cleanups and financial responsibility. Bill History - [HB 5599 Underground Storage Tanks](#)

Public Act 381 of 2016. Effective March 29, 2017. - Provides for alternative mechanisms to protect underground storage tanks against exposure to environmental contamination. Bill History - [SB 717 Underground Storage Tanks](#)

Public Act 421 of 2016. Effective April 4, 2017. - Modifies term enforcing a municipal or sewage system lien. Bill History - [HB 5113 Water or Sewage System Lien](#)

Public Act 437 of 2016. Effective April 4, 2017. - Extends terms for research, development, and demonstration project permits. Bill History - SB 1079 Landfill

Projects.

Public Act 465 of 2016. Effective March 29, 2017. - Eliminates underground storage tank fees. This bill will take effect 90 days after filing with the Secretary of State and becoming law. Bill History - [SB 1051-1053 UST Fees](#)

Public Act 471 of 2016. Public Act 472 of 2016. Public Act 473 of 2016. Public Act 474 of 2016. Public Act 475 of 2016. Public Act 474 of 2016. Effective April 5, 2017 Modifies definitions and program changes of brownfield redevelopment authority. Bill History - [SB PACKAGE 908- 913 Brownfield Redevelopment Authority.](#)

Public Act 478 of 2016. Effective March 29, 2017 - Requires notification of the public water supply users of noncompliance with certain drinking water standards. Bill History - [HB 5120 Water Quality](#)

Public Act 513 of 2016. Effective January 9, 2017. - Provides power to suggest changes to proposed rules. Bill History - [SB 962 JCAR.](#)

Public Act 545 of 2016. Effective January 10, 2017. Directs U.S. Armed Forces to provide Alternative water supplies to owners of private wells if the drinking water has been contaminated by substances used by the

military. Bill History - [SB 950 Military Base Water Supplies.](#)

BILLS INTRODUCED IN 2017

SB 63 Lead Action Level – Reduces lead action level. Bill was introduced by Senator Jim Ananich in January 2017 and was referred to the Committee on Government Operations.

SB 129 Copper Mining Operations - Establishes separate regulatory program for small native copper mining operations. Amends 1994 PA 451 by amending sections 3118, 9115, and 63201 (MCL 324.3118, 324.9115, and 324.63201), section 3118 as amended by 2015 PA 82, section 9115 as amended by 2011 PA 214, and section 63201 as added by 2004 PA 449, and by adding part 634. Bill was introduced by Senator Tom Casperson in February 2017 and was referred to the Committee on Government Operations.

SB 154 Water Resources Commission - Establishes water resources commission. Amends 1994 PA 451 by amending sections 3101, 3102, 3112, 3113, and 3120 (MCL 324.3101, 324.3102, 324.3112, 324.3113, and 324.3120), section 3101 as amended by 2015 PA 247, section 3112 as amended by 2005 PA 33, section 3113 as amended by 2004 PA 91,

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and section 3120 as amended by 2015 PA 82, and by adding section 3102a. Bill was introduced by Senator Jim Ananich in February 2017 and was referred to the Committee on Government Operations.

[SB 156 Air Pollution Commission](#) -

Establishes air pollution control commission. Amends 1994 PA 451 by amending sections 5501 and 5522 (MCL 324.5501 and 324.5522), section 5501 as amended by 1998 PA 245 and section 5522 as amended by 2015 PA 60, and by adding sections 5501b and 5501d. Bill was introduced by Senator Hoon-Yung Hopgood in February 2017 and was referred to the Committee on Government Operations.

[HB 4007 Natural Resources](#) -

Modifies setback for gas wells near certain residential areas under certain circumstances. Introduced by Representative Peter Lucido in January 2017 and was referred to the Committee on Energy Policy.

[HB 4008 Gas and Oil](#) -

Establishes a drilling impact study and allocates funding. Introduced by Representative Peter Lucido in January 2017 and was referred to the Committee on Energy Policy.

[HB 4076 Data Altering](#) - Enacts sentencing guidelines for altering or tampering with data

in an official report. Bill was introduced by Representative Klint Kesto in January 2017 and was referred to the Committee on Judiciary.

[HB 4120 Water Quality](#) - Requires testing levels of lead and other contaminants in water supplied to public schools. Amends 1976 PA 399 (MCL 325.1001 to 325.1023) by adding section 7a. Bill was introduced by Representative Adam Zemke in January 2017 and was referred to the Committee on Natural Resources.

[HB 4123 Environmental Cleanups](#) - Requires cleanup to residential and safe drinking water standards unless technically infeasible. Amends 1994 PA 451 by amending section 20118, 20120a, 20120e and 20121 (MCL 324.20118, 324.20120a, 324.20120b, 324.20120e and 324.20121), sections 20118, 20120a and 20120b as amended and section 20121 as added by 2014 PA 542 and section 20120e as amended by 2012 PA 190. Bill was introduced by Representative Yousef Rabhi in January 2017 and was referred to the Committee on Natural Resources.

[HB 4124 Water Quality](#) - Provides for program for testing and removing lead in drinking water used by schools and child care centers. Amends 1976 PA 399 by amending

section 2 (MCL 325.1002), as amended by 1998 PA 56 and by adding section 7a. Bill was introduced by Representative Sheldon Neeley in January 2017 and was referred to the Committee on Natural Resources.

[HB 4125 Water Quality](#) - Requires testing for lead and copper in drinking water and specifies procedures. Amends 1976 PA 399 by amending section 2 (MCL 325.1002), as amended by 1998 PA 56 and by adding sections 7a and 7b. Bill was introduced by Representative Phil Phelps in January 2017 and was referred to the Committee on Natural Resources.

[HB 4175 Drinking Water](#) - Creates a water emergency loan fund. Amends 1976 PA 399 (MCL 325.1001 to 325.1023) by adding section 11e. Bill was introduced by Representative Robert Kosowski in February 2017 and was referred to the Committee on Natural Resources.

[HB 4179 Drinking Water](#) - Authorizes the use of the safe drinking water revolving fund for replacing lead or galvanized service lines. Amends 1994 PA 451 by amending sections 5401 and 5403 (MCL 324.5401 and 324.5403), as added by 1997 PA 26. Bill was introduced by Representative Holly Hughes in February 2017 and was referred to the

Committee on Natural Resources.

[HB 4189 Natural Resources](#) - Clarifies no net loss of Department of Natural Resources hunting acreage and extends to commercial forest. Amends 1994 PA 451 by amending section 504 (MCL 324.504), as amended by 2009 PA 47. Bill was introduced by Representative Pamela Hornberger in February 2017 and was referred to the Committee on Natural Resources.

[HB 4200 Air Pollution](#) - Establishes air pollution control commission. Amends 1994 PA 451 by amending sections 5501 and 5522 (MCL 324.5501 and 324.5522), section 5501 as amended by 1998 PA 245 and section 5522 as amended by 2015 PA 60 and by adding sections 5501b and 5501d. Bill was introduced by Representative Stephanie Chang in February 2017 and was referred to the Committee on Natural Resources.

[HB 4201 Water Quality](#) - Provides oversight over the safe drinking water act. Amends 1976 PA 399 by amending section 3 (MCL 325.1003). Bill was introduced by Representative Sheldon Neeley in February 2017 and was referred to the Committee on Natural Resources.

[HB 4202 Gas and Oil](#) - Establishes oil and gas commission to oversee issuance of permits and promulgation of rules. Amends 1994 PA 451 by amending sections 61501, 61503, 61510, 61517, 61701, 61730, 61731, 61732, 61733, 62501, 62504, and 62514 (MCL 324.61501, 324.61503, 324.61510, 324.61517, 324.61701, 324.61730, 324.61731, 324.61732, 324.61733, 324.62501, 324.62504, and 324.62514), section 61501 as amended by 1998 PA 303, sections 61503, 61510, 61701, 61730, 61731, 61732, 61733, 62504, and 62514 as added by 1995 PA 57, section 61517 as amended by 1998 PA 115, and section 62501 as amended by 1998 PA 467, and by adding sections 61502b, 61502d, 61702b, and 62503b. Bill was introduced by Representative Jeremy Moss in February 2017 and was referred to the Committee on Natural Resources.

[HB 4206 Water Quality](#) - Modifies process for collection of water. Amends 1976 PA 399 by amending section 7 (MCL 325.1007), as amended by 1998 PA 56. Bill was introduced by Representative Sheldon Neeley in February 2017 and was referred to the Committee on Natural Resources.

[HB 4214 Water Pollution](#) - Establishes water resources commission. Amends 1994 PA 451

by amending sections 3101, 3102, 3112, 3113 and 3120 (MCL 324.3101, 324.3102, 324.3112, 324.3113 and 324.3120), section 3101 as amended by 2015 PA 247, section 3112 as amended by 2005 PA 33, section 3113 as amended by 2004 PA 91 and section 3120 as amended by 2015 PA 82 and by adding section 3102a. Bill was introduced by Representative Phil Phelps in February 2017 and was referred to the Committee on Natural Resources.

[HB 4231 DEQ Budget](#) - Provide for Department of Environmental Quality budget for the 2017-18 fiscal year.

[HB 4247 Property](#) - Enacts prohibition on reserving mineral rights to property conveyed by this state. Amends 1984 PA 431 (MCL 18.1101 to 18.1594) by adding section 255. Bill was introduced by Representative Michele Hoytenga in February 2017 and was referred to the Committee on Natural Resources.

[HB 4255 Environmental Protection](#) - Requires reduction of air emissions during certain months. Amends 1994 PA 451 (MCL 324.101 to 324.90106) by adding section 5506a. Bill was introduced by Representative Abdullah Hammoud in February 2017 and was referred





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to the Committee on Natural Resources.

[HB 4256 Air Pollution](#) - Revises air quality index reporting and forecasting program and restricts emissions during thermal inversions. Amends 1994 PA 451 (MCL 324.101 to 324.90106) by adding section 5543. Bill was introduced by Representative Stephanie Chang in February 2017 and was referred to the Committee on Natural Resources.

[HB 4281 Natural Resources](#) - Provides for civil fines for providing false information on applications, reports or documents submitted to the Department of Natural Resources or Environmental Quality. Amends 1994 PA 451 (MCL 324.101 to 324.90106) by adding section 1521. Bill was introduced by Representative Robert Kosowski in February 2017 and was referred to the Committee on Natural Resources.

BILLS UP FOR LEGISLATIVE CONSIDERATION FROM 2016

[SB 1157 Pollution Prevention](#) - Prohibits use and sale of coal tar sealant or other high PAH sealants for pavement. Bill was introduced by Senator Rebekah Warren in November 2016 and was referred to the Committee on Transportation.

[HB 5862 Mining](#)—Eliminates inland lakes and

streams permit requirements. Bill was introduced by Representative Andrea LaFontaine in September 2016 and was referred to the Committee on Natural Resources.

[HB 5856 Brownfield Redevelopment Authority](#)—Eliminates ability to capture future special millages. Passed in House and was referred to the Senate Committee on Economic Development and International Investment.

[HB 6024 Environmental Protection](#) - Requires cleanup to residential and safe drinking water standards unless technically infeasible. Bill was introduced by Representative Jeff Irwin in November 2016 and was referred to the Committee on Natural Resources.

[HB 6025 Environmental Protection](#) - Provides process for development of cleanups criteria and extends sunset. Bill was introduced by Representative Jeff Irwin in November 2016 and was referred to the Committee on Natural Resources.

[HB 6027 Environmental Protection](#) - Requires permits for industrial facility within certain distance of residential or other uses to have vegetative buffer or buy-out of dwellings. Bill was introduced by Representative Stephanie

Chang in November 2016 and was referred to the Committee on Natural Resources.

[HB 6028 Air Pollution](#) - Creates ombudsman for air quality. Bill was introduced by Representative Stephanie Chang in November 2016 and was referred to the Committee on Government Operations.

[HB 6038 Environmental Protection](#) - Creates commission of environmental quality. Bill was introduced by Representative Stephanie Chang in November 2016 and was referred to the Committee on Government Operations.

EMU Student Chapter Activities

EMU student chapter's own Conor O'Dowd took second place in the poster presentation at the December 2016 AIPG Michigan section meeting at Weber's Inn in Ann Arbor. Students Matthew Schiffert and Glen Loriaux also presented, and received smaller awards. Congratulations for all the hard work they have done on their research.

In early February, the chapter co-sponsored a resume and cover letter writing workshop



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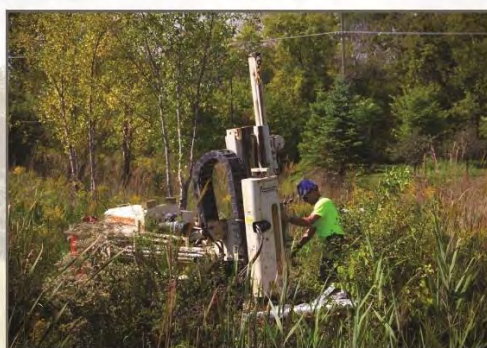


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with a staff member from EMU's Academic Advising and Career Development Center. Approximately 15 students attended this one-hour workshop.

Eastern Michigan's Department of Geography and Geology has been searching for two new faculty positions. As part of this process, students of the chapter met with each candidate during sponsored pizza luncheons. Accompanying these visits, each candidate also gave a presentation on their respective work. The results of the faculty search will be known soon.

Several of our students are preparing to present the results of their independent senior research projects at EMU's 37th Undergraduate Research Symposium. This one-day event at the end of March will showcase 370 student presentations from across all academic disciplines. Five members of the chapter will be sharing the results of their research in either an oral or a poster presentation.

With a considerable number of current student chapter members graduating, the officers moved to establish two scholarships for students who are attending field camp or continuing their education in a master's program. Deadlines for the scholarships will be set in the coming weeks.

Looking toward the future, students in our Sedimentology and Stratigraphy class will travel to Grand Ledge in April for a comprehensive project. Elections will be held to fill the executive positions for the 2017-2018 school year, and planning for the chapter's annual spring picnic will be finalized.

Donovan Verge, EMU Chapter President

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

According to the Section 7.2.1 of the AIPG Bylaws, "A Section may conduct its own affairs so long as they are not in conflict with the Bylaws and policies of the Institute. The Bylaws of Sections shall not conflict with those of the Institute and shall, insofar as is practicable, conform to the recommendations of the Executive Committee. Any changes therein shall take effect only upon approval of the Executive Committee of the Institute. No Section shall have the power to bind or make statements

on behalf of the Institute by its action without specific written authority from the Executive Committee or the President of the Institute. If a Section fails to elect, or fill vacancies among, its officers, the President of the Institute may appoint such officers to serve until their successors are elected or appointed. In the event of a failure to comply strictly with the Bylaws and policies of the Institute, the Executive Committee may immediately replace the officers of the Section, revoke its charter and invite a reorganization of the Section, or take other corrective action as it may deem appropriate."

Newsletter Notice via E-mail

Please be sure that you continue to receive the Section newsletters and other announcements. Submit an updated e-mail address to Adam Heft at heft@pbworld.com. If you move or change places of employment, don't forget to send your new contact information to both the Section and to National. If you are not receiving announcements directly from the Editor, it is because your email address is not up to date.

2017 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...

Michigan Department of Environmental Quality News

As the snow begins to melt, Michigan Department of Environmental Quality (MDEQ) is kicking off the spring season in the Upper Peninsula with the U.P. Solid Waste Forum 2017 and the U.P. Environmental Risk Management Strategies Conference April 25-27, 2017. The Office of Waste Management and Radiological Protection (OWMRP) is hosting the Solid Waste Forum which starts with a meet and greet on Tuesday evening followed by a full day of informative topics ranging from regulations to recycling to landfill gas permitting and caps on Wednesday. Thursday's session is hosted by the Remediation and Redevelopment Division (RRD) featuring the latest on cleanup criteria status, vapor intrusion, and institutional controls and more.

The conference is being held at the Ramada Inn in Marquette, Michigan and options are available to attend one or both days. Be sure to check the [DEQ training website](#) for more details and to sign up!

Sara Verbrugge-Pearson, CPG – MDEQ RRD Unit Supervisor

Section Website Reminders

As you may have noticed, the Michigan Section is building a database of geologic

2017 AIPG Michigan Section Executive Committee



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Brian Burke



President
Linda Hensel



Vice President
Tim Woodburne



Treasurer
Amy Hoeskema



Secretary
Sara Pearson



Newsletter Editor
Adam Heft

photographs on our website. Please submit photographs that you are willing to share to Adam Heft at heft@pbworld.com. Don't forget to include your name and a short explanation of what the photograph depicts. The photographs will be 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.

13 Glittering, Record-Setting Gems: <http://www.mnn.com/earth-matters/wilderness-resources/stories/glittering-record-setting-gems-to-ogle>.

Employment Opportunities

To serve our members, and provide added value, the Michigan Section Executive Committee has decided to allow ads for employment or other opportunities to be posted in the Section newsletters. Employment ads will run for one edition unless renewed. There is no cost to our members or sponsors for this service. Send your employment opportunities to the Editor.

WSP | Parsons Brinckerhoff Internship

WSP | Parsons Brinckerhoff, one of the world's leading engineering and professional services consulting firms, provides services designed to transform the built environment and restore the natural one. The firm's expertise ranges from environmental remediation and urban planning, to engineering iconic buildings and designing sustainable transport networks, to developing the energy sources of the future and enabling new ways of extracting essential resources. Approximately 34,500 employees, including engineers, technicians, scientists, architects, planners, surveyors, program and construction management professionals, as well as various environmental experts, work for this dynamic organization in more than 500

offices across 40 countries worldwide. wsp.pb.com/usa

Position Description:

This internship opportunity is available for a creative and hard-working student currently enrolled in an accredited degree program in geology, engineering, hydrogeology, environmental science or a related discipline. The internship program runs for approximately 3 months over the summer break. The candidate will gain experience in environmental consulting including conducting Phase I and Phase II environmental site assessments, evaluating and interpreting field and sampling data, developing conclusions concerning site conditions based on data analysis, and preparing written plans and reports related to site investigation and remediation activities. There could also be opportunities to work with other disciplines in our Detroit office (e.g. Civil, Structures, Geotechnical, and Environmental Planning).

Full details on the internship position may be found at the following link; all applicants must submit information through the online portal.

http://searcho.smartsearchonline.com/pb/jobs/jobdetails.asp?job_number=33264

Member's Corner

The Member's Corner includes information about the Section's membership. This is your chance to provide information on where you are and what you are doing. Simply send the information to the Editor for inclusion in this section.

No Member's Corner articles were received for this edition of the newsletter.

Coming Events

Michigan Section AIPG Annual Meeting to be held at Weber's Inn, Ann Arbor. Speaker and topic to be determined.

April 8, 2017: MBGS spring field excursion to the Detroit Salt Company mine in Detroit, Michigan. For complete information, see flyer attached to this newsletter.

April 13, 2017: Joint Michigan Section AIPG and MBGS Meeting, Hawk Hollow, Bath. Speaker and topic TBA.

Location: Hawk Hollow Golf Course, Bath.

Dinner: Choice of Beef Sirloin, Rosemary Chicken and Vegetarian Lasagna.

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 April 10, 2017

March 23, 2017: Joint MBGS and MI-SPE membership meeting. The speaker is Michael Gillen presenting "Applications and Advantages of Logging-While-Drilling in High Angle and Horizontal Wells."

May 16, 2017: [13th Annual Michigan Section AIPG Golf Outing](http://mi.aipg.org/Golf/golf.htm) at Moose Ridge Golf Course in South Lyon. Full details, including sponsorship and registration information, are attached to this newsletter, and are also available on the Michigan Section website at: <http://mi.aipg.org/Golf/golf.htm>.

June 13-14, 2017: [7th Annual Michigan Section AIPG Environmental Risk Management Workshop](http://mi.aipg.org/Golf/golf.htm), RAM Center, Roscommon. Topic: Characterization for Remedy Decision.

August 11-13, 2017: Joint Michigan and Wisconsin Section summer field trip to the western Upper Peninsula of Michigan and northeastern Wisconsin. Additional details forthcoming.

September 7, 2017: Michigan Section AIPG meeting in Kalamazoo. Location, speaker and topic TBA.

September 23-26, 2017: 54th Annual AIPG Meeting to be held in Nashville, TN. Complete meeting and registration details forthcoming in the April, May, June 2017 issue of TPG.

Fall 2018: 55th Annual AIPG Meeting to be held in Colorado Springs, CO.

Fall 2019: 56th Annual AIPG Meeting to be held in the Northeast Section; location TBD.

Fall 2020: 57th Annual AIPG Meeting to be held in California; location TBD.

Fall 2021: 58th Annual AIPG Meeting to be held in the Michigan Section; location TBA.

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13th Annual AIPG Michigan Section Golf Outing

Tuesday May 16, 2017

The 13th Annual AIPG Michigan Section Golf Outing promises to be our best yet. Proceeds generated from this fantastic event 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/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.

We are returning to the rolling topography of Moose Ridge Golf Course in South Lyon, Michigan.

Place: Moose Ridge Golf Course
11801 Doane Road
South Lyon, MI 48178

Event: 18-Hole Scramble

Date: May 16, 2017

Registration: 8:00 to 9:15 am

Shotgun Start: 9:30

Rainout Date: May 18, 2017 (based on availability)

Registration

Register/Pay by April 15, \$600/foursome, \$180/Individual
Register/Pay after April 15, \$680/foursome, \$200/Individual

Golfer 1: _____

Golfer 2: _____

Golfer 3: _____

Golfer 4: _____

Accepted forms of payment include:

Eventbrite

<https://www.eventbrite.com/e/aipg-michigan-section-golf-outing-2017-tickets-30142479969?aff=eac2>



or



Make Checks to:
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c/o ERG
28003 Center Oaks Ct., Suite 106
Wixom, Michigan 48393
Attn: Bob Reichenbach bob.reichenbach@ergrp.net

Company: _____

Contact: _____

CALL 248-773-7986, or
FAX 248-924-3108 to reserve your place!
The AIPG-MI Section is a nonprofit
501(c)(6) Organization.

Phone: _____

*Includes: Continental Breakfast, green fees, range balls, Lunch at turn, networking opportunities, and DINNER.
Also includes: 50-50 and Grand Prize raffles along with other prizes including, \$10,000, vacations, or sets of clubs for a "Hole in One", Putt-4 Dough \$2,500, men's and women's Longest Drive and Closest to Pin contests, \$20 gas cards to the four golfers traveling the furthest and goodie bag for all participants.*

13th Annual AIPG Michigan Section Golf Outing

Tuesday May 16, 2017

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- \$2,000

Investment includes:

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

Beverage Sponsors - \$1,000 (2 available)

Investment includes:

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

Breakfast/Luncheon Sponsor - \$1,000

Investment includes:

- Signage at the grill/tent.
- Corporate recognition

Hole-in-one Sponsors - \$800 (4 available)

Will have visible exposure on Par 3 Holes.

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

Tee Box or Hole/Flag Sponsor - \$250 (36 available)

Investment includes:

- Tee box signage or
- Pin Flag with logo

Skill Sponsors – \$600

Investment includes:

(4 available)

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

Practice Tee Sponsor – \$400

Investment includes:

(1 available)

Exclusive Signage at the Practice Tee

Putt-4-Dough – \$800 Signage on the putting area, corporate* recognition during the event (includes contest coordination at the turn and following golf provided by you). Provides interaction with all participants.

Team Photo Sponsors:

\$500 SPONSOR FEE - if your photographer and printer

\$700 SPONSOR FEE - if our photographer and printer

Raffle Prize Sponsors:

Will contribute prizes (**\$100** minimum cash or 2 prizes with \$50 minimum value each, please) to the fund used to obtain raffle prizes. Recognition by name on prize table placards will be made, along with verbal recognition by the master of ceremonies. \$100 SPONSOR FEE ("lots" needed)

Goodie Bag Sponsor - Give-away items for 140 or more golfers

MICHIGAN BASIN GEOLOGICAL SOCIETY

FIELD EXCURSION SPRING 2017

THE F3 SALT OF THE MICHIGAN BASIN DETROIT SALT COMPANY DETROIT, MICHIGAN

DATE: Saturday, April 8th, 2017

FEE: \$50 for MBGS Members; \$75 Non-Members (includes membership)
Includes sandwich lunch and beverages

LEADERS: *Emanuel "EZ" Manos*, President, Detroit Salt Company, LLC, Detroit Michigan.
John Shook, Vice President Operations, Detroit Salt Company, LLC, Detroit Michigan

REGISTRATION: Email Mark Wollensak at wollensak@voyager.net to get your name on the attendees list. Payment and completed membership applications are to be submitted no later than Saturday, March 25th, 2017. There is a maximum of 30 participants - 15 per entry time.

TRIP DETAILS: Two tours at approximately 2.5 hours each with a sandwich lunch provided between tours.
Tour 1: 9:30am to 12:30pm - lunch to follow tour at the mine
Tour 2: 12:30pm to 2pm - lunch will be provided from 12pm to 12:30pm at the mine

TRIP BACKGROUND: This field excursion will allow participants a rare and unique opportunity to witness the F3 Bed in the Salina formation from the Late Silurian Period at a depth of approximately 1,160 feet below metropolitan Detroit. The Detroit Salt Mine has mined rock salt since 1906 making it one of the oldest underground room-and-pillar mines in the United States still in production and boasting over 100 miles of roads. The Detroit Salt Company operates the Detroit Salt Mine and specializes in the manufacturing and distribution of bulk rock salt, bagged rock salt and specialty ice melters.

BE PREPARED: Wear suitable rugged clothes such as long pants, long sleeved shirt, light jacket and boots with ankle support. Travel will be on rocks and tram. **Absolutely no cameras or cell phones allowed on the tour.**

MBGS SPRING 2017 DETROIT SALT COMPANY MINE TOUR

Saturday, April 8th, 2017

Name: _____ Phone No.: _____

Address, City, State, Zip: _____

Email Address : _____

Make check payable to "Michigan Basin Geological Society" in US Funds.

Mail Payment to: MBGS - Detroit Salt Mine Tour 2017, P.O. Box 14044, Lansing, MI 48901, USA

For information or to get your name on the attendees list, email Mark at wollensak@voyager.net
Pre-Registration by email is mandatory. No walk-ins or day of trip registrations will be accepted.

7th Annual AIPG Michigan Section Workshop

Environmental Risk Management: Characterization for Remedy Decisions



Registration is Open!

Registration for the AIPG Michigan Section's 7th Annual Workshop is officially open. Don't miss out! Sign up for the workshop to be held June 13 and 14, 2017, at the Ralph A. MacMullan Conference Center along Higgins Lake in Roscommon County, Michigan.

This 7th workshop in the series of annual training events hosted by the AIPG Michigan Section continues its focus on providing quality technical information. These environmental workshops bring together a broad base of topic expertise from consulting, regulatory, academic, and owner perspectives.

We are kicking off this year's workshop featuring keynote speaker Dr. Peter Adriaens, Professor of Environmental Engineering and Finance and also Entrepreneurship at the University of Michigan. He will provide insight into water resources from the perspective of business water risk management and the ripple effects from watersheds to capital markets.

Additionally, this unique workshop forum creates excellent opportunities for

- ***Networking***
- ***Knowledge transfer***
- ***Collaborative problem solving***
- ***Innovative product introduction***
- ***Field demonstrations***

**Michigan Section
Workshop -
Register Here!**

Join us for case study style presentations, regulatory updates, and the latest information on new technologies presented in a unique, off the beaten path setting where knowledge transfer and problem solving is promoted through collaboration and partnership to manage risks from environmental contamination.



Be sure to sign up soon as this popular event sells out quickly and space is limited. The AIPG Michigan Section thanks you for supporting this event!.