2018 Executive Committee

Officers

President
Colin Flaherty, CPG-11465
(614) 328-5138

President-Elect
Tim Brown, CPG-11637
(614) 619-6160

Past President
Brent Smith, CPG-11130
(614) 310-1042

Secretary
Tom Swinehart, CPG-03637
(740) 653-7018

Treasurer
Robert Andrews, MEM-2712
(614) 645-8441 ext. 146

Members-at-Large
Shay Beanland, CPG-11823
(614) 888-5760

Tom Jenkins, CPG-07892
(614) 888-5760

Ben White, MEM-2980
(614) 328-5194

Chairmen

Membership Chair
Tom Jenkins, CPG-07892
(614) 888-5760

Historian
Brent Huntsman, CPG-04620
(937) 320-3601

Screening Chair
Craig Cox, CPG-07612
(614) 526-2040

Awards Chair
Curt Coe, CPG-06240
(614) 265-6733

Student Chapters Chair
Robin Roth, CPG-09264
(614) 946-3945

Newsletter Editor
Shay Beanland, CPG-11823
(614) 888-5760

Ohio Section 2018 Annual Meeting

Geology of the Serpent Mound Structure

Presenter: Mr. Mark Baranoski

Date: Thursday, November 15, 2018

Location: LaScala Italian Bistro
W. Dublin-Granville Road, Dublin, Ohio

Schedule: Social hour begins at 5:00 pm followed by Dinner at 6:00 and Presentation at 7:00

Event Registration and Payment: https://www.aipg-ohio.org/payment.php

See Page 4 for event details

Also In This Issue:

Message from the President, Colin Flaherty, CPG-11465 2
Calendar of Upcoming Events 3
Ohio Section 2018 Fall Meeting Recap 7
AIPG Ohio Section and Cox-Colvin Fall 2018 Vapor Intrusion Short Course Recap 12
AIPG National Conference Revisited 15
AIPG Student Chapter Section 20
Public Outreach Opportunity 24
USEPA Michigan Mapping Project Workshop 25
Letters to the Editor and Editorial Submittal Guidelines 26
Message from the President

Colin Flaherty, CPG-11465

Fellow AIPG Members,

It’s that awkward time of year: we’re all making Thanksgiving plans but there are already Christmas decorations popping up, all while still picking through our kids Halloween candy. This has by far been the fastest year for me on the executive committee. I feel that we achieved everything that we set out to do this year, so I hope the rest of the executive committee feels a sense of accomplishment. Additionally, I hope that you as members feel that we are providing enough activities and opportunities for you to engage in the Section.

In my last message, I noted that I was in transit to Colorado Springs for the AIPG National Conference. I had the privilege to attend the 2017 conference in Nashville as well. If you have not attended, I urge you to go; it is a great opportunity to interact with fellow geologists, learn (including CEUs), and go on some amazing field trips. I will definitely be attending the 2019 meeting in Burlington, Vermont!

While at the National Conference this year, I attended the National Executive Committee meeting and the 2017-2018 Joint Executive Committee Meeting and Business Meeting. At the end of the session, voting took place for 2019 National Executive Committee officers…I was honored to be floor-nominated, and ultimately voted onto the Advisory Board for the 2019 National Executive Committee. I am very much looking forward to getting involved with AIPG on a national level.

Looking back on Section activities this year, not discounting any other activities/efforts throughout the year, I want to give particular thanks to the following:

- Mark Baranoski; who put in a great amount of time and effort to the Ohio Section this year for the summer field trip to Serpent Mound and his subsequent, upcoming presentation at our Annual Meeting later this month.

- Cox-Colvin & Associates, Inc.; who, for the second year, put on an amazing Short Course on vapor intrusion that greatly benefitted those who attended as well as the Ohio Section.
As always, if you have any questions or if you would like any additional information about AIPG or the Ohio Section, please do not hesitate to reach out to me or one of the Executive Committee members.

I hope you all have a great close of 2018 and, dare I say it...happy holidays!

Thank you,

Colin O. Flaherty, CPG-11465
2018 AIPG Ohio Section President

<table>
<thead>
<tr>
<th>Calendar of Upcoming Events</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>November 15</strong></td>
</tr>
<tr>
<td>AIPG Ohio Section Annual Meeting and Dinner</td>
</tr>
<tr>
<td>Presentation at La Scala Italian Bistro,</td>
</tr>
<tr>
<td>4199 West Dublin-Granville Road, Dublin —</td>
</tr>
<tr>
<td><strong>featured presenter will be Mark Baranoski</strong></td>
</tr>
<tr>
<td><a href="http://www.aipg-ohio.org">www.aipg-ohio.org</a></td>
</tr>
<tr>
<td><strong>February 19, 2019</strong></td>
</tr>
<tr>
<td>AIPG Ohio Section Winter Meeting and Dinner</td>
</tr>
<tr>
<td>Presentation – Nutter Center, Berry Room,</td>
</tr>
<tr>
<td>Wright State University, 3640 Colonel Glenn</td>
</tr>
<tr>
<td>Highway, Dayton, Ohio 45435; <a href="http://www.aipg-ohio.org">www.aipg-ohio.org</a></td>
</tr>
</tbody>
</table>
The Ohio Section of AIPG is pleased to host Mr. Mark Baranoski at the Section’s Annual Meeting and Dinner presentation, which will take place on Thursday, November 15, 2018 at the La Scala Italian Bistro, W. Dublin-Granville Road, Dublin, Ohio. Mr. Mark Baranoski will be presenting: Geology of the Serpent Mound Structure

The event begins at 5:00 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. Dinner will be buffet-style with a cash bar. The cost will be $35 for AIPG members or guests and $20 for AIPG Student Associates and other students. Please preregister and submit payment for the event via PayPal through the AIPG Ohio Section website https://www.aipg-ohio.org/payment.php. Please RSVP as soon as possible, but no later than Monday, November 12 by registering and paying for the event.
Geology of the Serpent Mound Structure

by Mr. Mark Baranoski

ABSTRACT

The Serpent Mound Impact Structure is located west of the Appalachian escarpment in southern Ohio near the intersection of Adams, Highland and Pike Counties. It is roughly an 8 km (5 mile) diameter circular geologic feature when viewed with satellite imagery. On the ground it is one of the more complex folded/faulted geologic structures in the region, consisting of a central uplifted peak, surrounded by a transition zone and an outer ring graben. The deformed Paleozoic Era rocks at the surface range in age from Ordovician to Mississippian Systems. The structure has been studied since first discovered in the 1830s by John Locke, who called the area "Sunken Mountain". Walter Bucher renamed it the Serpent Mound cryptovolcanic structure in the 1920s after the aboriginal serpentine effigy mound located within the transitional zone. Steve Reidel renamed the feature the Serpent Mound disturbance in 1982. The origin of the structure remained controversial between two groups for many years: either formed by deep seated endogenic “cryptovolcanic” forces, or an impact from a meteorite or comet. An impact crater origin was confirmed in the 1990s when Richard Carlton and others discovered planar deformation features (PDFs) in quartz grains from diamond-drilled rock core in the deep central uplift.

A traverse from outcropping, undeformed, flat lying rocks outside the crater toward the central peak uplift illustrates the complexity of the structure. The central uplift formation rock units are up to 275 m (900 ft) structurally higher and folded, faulted and brecciated than...
time-equivalent rock units outside the crater. Transitional zone rocks are less folded and faulted than the central peak rocks. And the outer faulted ring graben has down dropped up to 250 m (820 ft) from rocks outside the crater, hence John Locke’s name “Sunken Mountain”. Zones of brecciated rocks are associated with faulting throughout the crater.

PRESENTER

B.Sc. & M.Sc. 1982 Geology, University of Toledo
Gulf Oil Corporation, consulting, ODNR Division of Geological Survey

Mark began his career in oil and gas exploration of the Rocky Mountain region followed by Michigan Basin exploration. He continued work in the Ohio region utilizing geophysical, core, and sample analysis for studies of Precambrian, Cambrian, Ordovician, Silurian, and Devonian for oil and gas and deep saline reservoirs. Areas of interest include: Cambrian, Ordovician, and Silurian basin analysis, Precambrian basement tectonics and impact sites. Have been involved in numerous multi-state projects, published and unpublished reports and professional talks. Currently retired and working on regional subsurface geology and field mapping in the Appalachian thrust belt.
Ohio Section 2018 Fall Meeting Recap

Feature Presentation: The State of the Oil and Gas Industry in Ohio and the Appalachian Basin

Presented By: Jeffrey C. Dick, PhD, Chairman, Department of Geological and Environmental Sciences, Youngstown State University

Contributing author Brent Smith, CPG-11130

On Thursday September 27, 2018 the Ohio Section of AIPG held its fall meeting at the Boulder Creek Golf Club & Event Center in Streetsboro Ohio. The meeting was held in Northeast Ohio to provide an event to our members and student groups in the region. The event was well attended, with over 40 people in attendance, including members, students, and other professionals. Special thanks to our new Youngstown State University (YSU) student chapter for making the trip. Also, thanks to students from Kent State University and the University of Akron for coming as well! Prior to the feature presentation, AIPG Ohio Section President-Elect Tim Brown welcomed the attendees and gave an update on recent upcoming AIPG events for 2018. Tim provided a brief summary of his experience at the AIPG National Meeting in Colorado Springs in early September, and highlighted upcoming events including the 2018 AIPG Ohio Section Vapor Intrusion Short-Course scheduled for early October 2018, and the Ohio Section Annual Meeting scheduled for November 16. Next, Brigitte Petras, YSU Student Section president, talked briefly about the process of forming a new student section at Youngstown State University, and attending the National meeting in Colorado Springs. She then introduced Dr. Jeffery Dick.

Dr. Jeffrey Dick discusses production from the Appalachian basin
The event began with a social/networking hour and continued with a buffet style dinner before the guest speaker presented. Students were encouraged to network with professionals to gain insight into potential careers in the geosciences.

**Our guest speaker for the evening was Dr. Jeffrey C. Dick,** Chairman, Department of Geological and Environmental Sciences at Youngstown State University. Dr. Dick presented on *The State of the Oil and Gas Industry in Ohio and the Appalachian Basin.* The presentation began with an overview of the natural resources currently being developed within the Marcellus and Point Pleasant (a.k.a. Utica) Shales of Ohio, Pennsylvania and West Virginia and the overall hydraulic fracturing process. Dr. Dick then went on to present a detailed and concise analysis of data obtained from the Ohio Department of Natural Resources (ODNR) and other sources showing how the overall production has increased dramatically since 2010, when large oil companies began resource development. He showed that over 17,000 wells have been drilled within both units since 2010, with almost 3,000 of those occurring in Ohio. Also, despite the OPEC-influenced crash of oil prices in 2015, natural gas and oil companies have become more innovative and efficient in their procedures.

In addition, Dr. Dick demonstrated how oil companies have become more selective about locations, with areas where the Utica cap rock at its thickest showing the least decline in production over time, thus being the most lucrative areas to drill. This is demonstrated by recent increases in drilling permits in Belmont County, Ohio, where the Utica is relatively thick. Efficiencies were further demonstrated through a spatial production analysis of yields relative to drilled lateral distances. This analysis reinforced that a significant increase in overall gas production has occurred since 2010 and resulted from streamlined well pad development logistics and better site selection.
Dr. Dick continued his presentation by shifting to an economic focus. Specifically, he discussed the benefit to land owners, the increase in jobs, and boost to local economies that have resulted from not only the resource development, but from related construction and support services. Construction of infrastructure, new pipelines, and natural gas plants has been an economic boost for many Ohio counties. Dr. Dick pointed out how these improvements are setting the United States up to be a major exporter of natural gas. In addition, construction of the Royal Dutch Shell ethane cracker facility near Monaca, PA and the planned PPT Global ethane cracker in Belmont County, Ohio will transform the Ohio River into petrochemical corridor.

Dr. Dick finished his presentation by speculating on what will come next with this natural resource boom. He elaborated on potential plans for an expansive, natural gas storage field in West Virginia, and potential development in other historical Ohio oil and gas producing units such as the Knox Group.

Special Thanks to Dr. Dick for a captivating and informative presentation and also to our sponsors ALS Environmental, Buckeye Elm Contracting, and EA Group.
We would like to thank all of the students who joined us for a night of socializing and fun. It was nice to get to know the future of geology. We also would like to thank ODNR for providing educational materials for all of the students.

Youngstown State University Students

Kent State University Students

Akron University Students
Established in 2002, EnviroCore is an environmental drilling services company serving all of Ohio and the Midwest. We continue to work together to educate and deliver an end result that exceeds expectations. It is our goal to make decisions and follow through to deliver the highest level of customer service. Our crews are bright, professional and excel in problem solving. We match experienced operators and up-to-date equipment with an affordable price. We understand environmental drilling and the importance of creating and maintaining a safe job site.

We are available 24/7 and currently licensed to work in Ohio, Illinois, Indiana, Pennsylvania and West Virginia.

You can reach us at our office at 614-733-0377 from 7:00 a.m. to 6:00 p.m. or after hours at 614-263-6554. Fax 614-873-0563.

GT Environmental, Inc. provides environmental consulting services to the private sector and government. These services include brownfield redevelopments, Phase I/II site investigations, RCRA closure, remediation planning and oversight services, air permitting, water permitting, solid waste planning, and hazardous waste planning.

GT is committed to solving unique environmental challenges. We are sensitive to our clients’ schedules and budgetary requirements, and our experience and dedication consistently exceeds client expectations.

Founded in 1995, GT has grown into a well-respected environmental consulting firm serving the Fortune 500 companies, midsize to small businesses, state and local governments, hospitals, educational institutions, and professional associations. Our high percentage of repeat clients is testimony to our ability to provide high-quality, customer focused services.

Air Quality • Water Quality • Brownfields • Solid Waste • Hazardous Waste

635 Park Meadow Rd., Suite 112 | Westerville, OH 43081
(614) 794-3570 | gtenvironmental.com

Meeting Complex Environmental Regulatory Requirements
The AIPG Ohio Section held the second Vapor Intrusion Short Course on October 10-11, 2018 at the Ohio Department of Natural Resources (ODNR) H.R. Collins Core Laboratory Conference Center in Delaware, Ohio. The course was a joint effort between the Ohio Section and our good friends at Cox-Colvin & Associates, Inc.

Vapor intrusion is the migration of undesirable chemical components into indoor airspace intrusion and has been a growing concern. Vapor intrusion is one of the primary routes of human exposure to volatile organic compounds released to the subsurface. The two-day course on this evolving issue provided attendees with a plethora of diverse vapor intrusion education including the history of chlorinated solvent use, vapor sources, exposure/receptor types, sampling techniques, regulatory framework, legal liabilities, mitigation approaches, etc.
Mort Schmidt of Cox-Colvin has an immense amount of vapor intrusion knowledge and made several presentations ranging from the development of a conceptual site model to subsurface/indoor air sampling to data evaluation and many others. Mort was supported by the following presenters/presentations:

- Dawn Busalacchi (Ohio EPA): Regulatory perspective
- Craig Cox (Cox-Colvin & Associates, Inc.): History of Solvent Use (Craig also did a great job moderating)
- Scott Doran (Kegler, Brown, Hill & Ritter): Regulatory Framework
- Bruce Markey (Environmental Management Specialists, Inc.): Barrier Systems
- Tony McDonald (A-Z Solutions, Inc.): Sub-slab Depressurization Systems
- Josh McKinney (ALS Laboratory): Laboratory Methods
- Ed Pfau (Hull & Associates, Inc.): TCE Risk Decision Matrix
- Monica Williamson (Hull & Associates, Inc.): TCE Real Time Monitoring
On behalf of the Ohio Section, I want to extend a huge Thank You to Cox-Colvin. Well done.

Also, thank you to our sponsors and exhibitors:

- A-Z Solutions, Inc.
- ALS Laboratory
- Buckeye Elm Contracting
- Environmental Management Specialists, Inc.

Industrial Environmental Monitoring Instruments, Inc. provides you with the best rental equipment in the business. We stock the equipment you need for your environmental monitoring and sampling projects. Based in Columbus, Ohio with a branch in Indianapolis, IN we are one day ground to your Midwest projects sites.

800-532-7474
A couple months ago, I had the pleasure of attending the 2018 AIPG National Conference, which was held in Colorado Springs, Colorado. On the way there, I spent most of my time on the flight working and preparing for my portion of the conference where I am able to tout the efforts and activities of the Ohio Section over the past year. It is easy to pay attention to your computer when you are flying over middle America since it is topographically unremarkable (Ohio included!); however, when the plane starts the descent into Denver International, it is impossible not to be taken back by the awe of the front range of the Rocky Mountains. I attended college in Colorado (Fort Lewis College in Durango) and seeing the Rockies for the first time in ~6 years was a welcome sight and quickly reminded me of my affinity for the West…which is where I found my love of geology.
Saturday: Business Meetings

I attended the Saturday morning National Executive Committee meeting with Ohio Section President-Elect, Tim Brown. Having the privilege of attending the National Conference in 2017, it was nice for me to reconnect with so many familiar faces; additionally, it is nice to hear some of the issues on the National level (many of which are similar to those on the state level).

After the morning meeting, the AIPG Student/Professional Luncheon was a nice, casual way for everyone to mingle, talk shop, ask/provide advice concerning future careers in the geosciences. The second half of the day consisted of the AIPG Advisory board meeting and the 2017-2018 Joint Executive Committee Meeting and Business Meeting. At this meeting, we served as the recognized Ohio Section delegates, and were able to provide a report on 2018 Ohio Section activities. Concurrent to the afternoon session, a Student Career Workshop was also held in an adjoining room where students were treated to various lectures concerning careers in the geosciences. During the afternoon, we were able to hear the ups and downs of all attending Sections.

At the end of the session, voting took place for 2019 National Executive Committee officers. I was honored to be floor-nominated, and ultimately voted onto the Advisory Board for the 2019 National Executive Committee.
Sunday: Funday & Welcome Reception

Although there were several field trip options on Sunday, I decided to do my own sightseeing. First thing in the morning, I drove to the summit of Pikes Peak. By the time I chugged my way to the top of the 14,115-foot summit, the temperature had dropped 30 degrees…and admittedly, I was not prepared for the snow on the summit in my flip flops, but I powered through and hiked around a little bit for the obligatory photos. After Pikes Peak, I headed to Garden of Gods for a ~5+ mile hike around the perimeter of the park…what a beautiful place! Finally, I stopped at a local brewery for a great breakfast burrito smothered in green chili and a few refreshments.

Sunday evening, we attended the welcome reception and Silent Auction benefitting the AIPG Foundation. Here we were able to network with exhibitors and attendees and peruse the multitude of items donated for the silent auction. The event proved very successful with several thousands of dollars collected for the Foundation.

Monday: Technical Sessions & Awards Dinner

I attended the early morning Section Delegate meeting. This informal meeting included roundtable discussion of issues each state and regional section has faced and feedback by
National and fellow sections for support/solutions. The morning plenary session kicked off with an introduction by 2018 Conference Chairman, David Abbott, CPG followed by several presentations, including one by AIPG President Doug Bartlett and AIPG President-Elect Keri Nutter.

The technical sessions then began along with Student poster presentations. I was privileged to assist AIPG Executive Director Aaron Johnson in the poster judging. All in all, I was highly impressed with all of the posters, but I was especially happy to see Brigette Petras of the newly formed Youngstown State Section, not only attending the conference, but being presented an Executive Directors award for her poster! *(The Characterization, Composition, and Weathering of the Kasota Stone of the Cathedral of Saint Columba.)*

The keynote lunch speaker was Jim Reed of RockWare Incorporated. His presentation focused on the use of geophysical instrumentation in support of criminal investigations (predominantly murder cases). Although some deemed the topic to not be the best for a lunch presentation, Jim is an excellent presenter and did a fantastic job on a unique and fascinating concept. (I will admit, there were a few photos that weren’t the best when trying to eat lunch!!)

The AIPG Awards Dinner was held Monday evening. Of note, our very own Brent Smith was presented with a AIPG National Award:

*Brent R. Smith, CPG-11130*

*2018 Section Leadership Award*

*For long-term commitment and contributions to the AIPG Ohio Section*

Brent has been a part of the Ohio Section Executive Committee for ~10 years. He has served as Member-At-Large, Treasurer (for ~6 years), President-Elect, President (2017), and currently Past-President. Brent has quietly been the engine driving the Ohio Section for the last several years. He had good leaders to learn from over the years; however, he has really kept the Section moving forward and become THE leader. He has served in countless roles on the Executive Committee, not only in title, but in tasks performed: assistant website manager (posts all blogs, etc.), social media manager (adds all posts), business development and membership sub-committee member, etc. During his presidency, he spearheaded the revamping of the Ohio Section website, additionally, he was able to oversee the successful execution of an AIPG sponsored short course on vapor intrusion. Brent has been extremely vested in AIPG over the
years and is by far the Executive Committee member that has tirelessly brought enthusiasm to the organization.
Unfortunately, Brent was unable to attend this year; however, I was honored to accept the award on behalf of a very deserving individual.

Tuesday: Reality Check

I headed back to Ohio on Tuesday morning…back to the grind. Overall, the Conference is full of great people who care about our industry and profession. I encourage you to attend a future meeting if you are able, they truly are enjoyable. The 2019 Conference is in Burlington, VT…I will be attending, so I hope to see you there!
The WSU Student Chapter of AIPG has provided the Newsletter with a listing of officers as well as a preliminary schedule of activities for the 2018-2019 academic year. The WSU Student Chapter is led by Dr. Stacey Hundley. The WSU Student Chapter of AIPG officers for the current academic year include the following:

| Wright State University Chapter of AIPG, 2018 – 2019 |
|---------------------------------|----------------|
| OFFICERS                        |                |
| President                       | Baylee Stark   |
| Vice President                  | Riley Garner   |
| Secretary                       | Samuel Mulkey  |
| Treasurer                       | Mike McKean    |
| ADVISOR                         | Stacey Hundley, Ph.D., Lecturer, Earth & Environmental Sciences Department, MEM-2546 |

Please take a moment and welcome these WSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event.
The Ohio State University Student Chapter of AIPG has provided the Newsletter with a listing of officers as well as a preliminary schedule of activities for the 2017-2018 academic year.

<table>
<thead>
<tr>
<th>The Ohio State University Chapter of AIPG, 2018 – 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFFICERS</td>
</tr>
<tr>
<td>President</td>
</tr>
<tr>
<td>Vice President</td>
</tr>
<tr>
<td>Secretary</td>
</tr>
<tr>
<td>Treasurer</td>
</tr>
<tr>
<td>ADVISOR</td>
</tr>
</tbody>
</table>

Please take a moment and welcome these OSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event.

Geochemical Testing (GT) is a full-service, NELAC accredited laboratory offering a wide range of sampling, analytical and complimentary services to meet the needs of our solid waste, industrial, coal and utility clientele. Located in Somerset, PA, GT meets the strict federal and state requirements for a 12 state service area. Environmental analysis includes, but is not limited to: inorganics, organics, metals (including low level mercury) and microbiological parameters across the drinking water, non-potable water, solid and chemical categories. Our coal services range from sampling and inspection to major/minor/trace elements and complete coal/ash analysis.

**MISSION**

Geochemical Testing is strongly committed to providing the best possible value in analytical and customer services for coal and environmental clients.
Contributed by: Brigitte Petras, YSU Student Chapter President

AIPG’s YSU Chapter has been attending professional meetings and volunteering this semester. Three members, Chris McFarland, William Vuletich, and Brigitte Petras went to the 2018 National AIPG Conference in Colorado Springs, CO in September. Brigitte presented her research at the conference, and everyone enjoyed attending technical sessions and career workshops. YSU AIPG members also enjoyed the AIPG Ohio Section Fall Meeting in Streetsboro. In October, AIPG members helped set up and attended the celebration service for the life of Dr. Ray Beiersdorfer, who was a professor of YSU that passed recently. Later this semester, the organization volunteered for Silly Science Sunday, an event that involves the community in critical thinking and science activities. Volunteers set up a fossil hunt activity, while others volunteered with the museum director of the Clarence Smith Mineral Museum and educated others on minerals. Recently, the YSU AIPG Chapter participated in a joint trip with Bowling Green State University’s geology club to Hocking Hills State Park. Using the Geology of the Hocking Hills State Park Region, the students learned about the geology of Bear’s Den and other eye-catching landmarks.
Youngstown State University Student Chapter of AIPG has provided the Newsletter with a listing of officers as well as a preliminary schedule of activities for the 2017-2018 academic year.

<table>
<thead>
<tr>
<th>OFFICERS</th>
<th>President</th>
<th>Brigitte Petras</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President</td>
<td>Bruno Abersold</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td>Hayley Spalla</td>
<td></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Chris McFarland</td>
<td></td>
</tr>
</tbody>
</table>

Please take a moment and welcome these YSU Student Chapter of AIPG officers and their fellow student members at a future AIPG event.
Public Outreach Opportunity

Contributing author Tom Jenkins, CPG-07892

The Cleveland Geological Society is looking for informal speakers to attend their regular meetings and speak on topics of geologic interest. Meetings are held on the third Wednesday of the month from September through May at 7:30 pm in Classroom A on the Cleveland Museum of Natural History's lower level (unless otherwise noted on the website).

The Cleveland Geologic Society was founded in 1957. Membership is open to people interested in all aspects of geology. Monthly meetings feature talks on diverse topics, such as the geology of far-flung places, explanations of local points of interest, and paleontology. Members and visiting geologists are invited to speak. The society also holds field trips to local sites and occasionally more distant locales.

The Cleveland Geologic Society helps support a number of museum programs. Among these are the summer Kirtlandia Research Internship Program and Archaeology & Earth Science Day in October.

For additional information, check out the website at https://www.cmnh.org/join-support/clubs-societies/Cleveland-Geological-Society. To present a topic as a speaker please contact Doug Dunn (DDunn@cmnh.org) at the Cleveland Museum of Natural History.

---

Image of Terran Corporation

**Water Resources**
- Groundwater Exploration, Development & Sustainability
- Source Water Protection
- Aquifer Testing & Analysis
- Groundwater/Surface Water Systems
- Water Quality/Quantity Assessments
- Flow & Solute Transport Modeling
- Hydrogeologic Investigations
- Expert Witness Testimony
- Thermometric Monitoring

**Contaminant Remediation**
- Contaminant Evaluations & Delineations
- Electrokinetic-Based Systems
- Road Salt Contamination - Investigation & Remediation
- In-Situ Treatment Technologies

**SACON Ranges & Structures**
- Environmentally Protective & Safe Firing Ranges, Bullet Traps & Shoot Houses

Providing services locally, nationally and internationally for 32 years.
Michigan Mapping Project Workshop

Schoolcraft Public Safety Complex
Academy Training Center, Rooms 104-105
31777 Industrial Road
Livonia, MI 48150

Workshop Date:
Tuesday December 11, 2018
9:00 a.m. – 12:00 p.m. (Registration at 8:30 a.m.)
1:00 p.m. – 2:30 p.m. (Optional Field Exercise to develop Containment Points)

BACKGROUND & PURPOSE

BACKGROUND
The Michigan Mapping Project Geographical Information System (GIS) program is an environmental emergency response tool that brings public (federal, state and local) and private sector emergency responders together, working in one GIS format for spill response and pre-planning. During an emergency response, federal and state On-Scene Coordinators (OSCs) use the project to gain situational awareness of downstream/downwind vulnerabilities, as well as upstream/upwind potential responsible parties. For contingency planning, the project can introduce facilities to the communities which may be impacted during a hazardous materials and/or petroleum release. The program can also be used during exercises of facility response plans by providing participants access to response layers such as: endangered/protected species and habitats; sanitary and storm sewer systems; facility discharge and permit discharge points; water supplies; other pollution sources (facilities, oil wells, pipelines, rail lines, etc.); and vulnerable populations (schools, nursing homes, daycare facilities, hospitals, etc.). The Michigan Mapping Program can be accessed at the following website: www.rrt5.org, (select the Interactive Mapping Tab-Stakeholder Version).

PURPOSE
The workshop is designed to provide an overview of the Michigan Mapping Program. Michigan stakeholders will be provided with important information so that they can utilize and support this critical program.

REGISTRATION INFORMATION
Space will be limited so please register at the following link:
https://trainex.org/classdetails.cfm?courseid=1787&classid=7936

POINTS OF CONTACT

Tricia Edwards
On Scene Coordinator
U.S. EPA
9311 Groh Road
Grosse Ile, MI 48138
(734) 692-7687

Jon Gulch
On Scene Coordinator
U.S. EPA
9311 Groh Road
Grosse Ile, MI 48138
(734) 692-7686

Jeff Kimble
On Scene Coordinator
U.S. EPA
9311 Groh Road
Grosse Ile, MI 48138
(734) 692-7688
Letters to the Editor and Editorial Submittal Guidelines

The Ohio Section welcomes and encourages membership discourse via the Section newsletter on relevant geopolitical and geological topics, in accordance with our chartered purpose. Contributing authors are requested to abide by the following guidelines to ensure civility and professionalism.

1. Scientific interpretations should include accurate and effective references.

2. Opinion pieces should be presented with reasoning. Fellow members may choose to comment or challenge a submittal with their own contribution.

3. Authors must abide by the AIPG Code of Ethics. Any author who violates this code will not be published. Authors must be respectful to fellow members, all political parties, officials and candidates.

4. Letters to the Editor should be under one page in 12 pt. Arial font.

5. Member authors should provide their name and certification number.

6. The Ohio Section also welcomes and will consider relevant articles from non-members, provided contributions abide by the above stated guidelines.

Contributions to the Ohio Section newsletter do not necessarily reflect the opinion of the Ohio Section or the editor. We reserve the right to edit for clarity and space considerations. Please send submittals to the editor at sbeanland@eagoninc.com.