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February 2020 Newsletter

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AIPG Ohio Section 2020 Winter Meeting

A New Map of Pleistocene Proglacial Lake Tight Based on GIS Modeling and Analysis

Presenter: Mr. Jim Erjavec of GIS & Environmental Management Technologies, LLC

Date: Thursday, February 20, 2020

Location: The Berry Room at the Nutter Center
3640 Colonel Glenn Highway, Dayton, OH

Schedule: Social hour begins at 5:30 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 7 for event details

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Message from the President

Robert E. Andrews, CPG-11975

Greetings fellow AIPG Ohio Section members. I am humbled and honored to serve as your President for 2020. Before I introduce myself, the rest of the Executive Committee for 2020, and the exciting things planned for 2020, I would like to thank Tim Brown for serving as our

President in 2019. He did an excellent job leading the section last year and I thank him for his service.

For those who do not already know me, I earned a Bachelor of Arts degree from the College of Wooster and a Master of Science degree from the University of Kentucky. In addition to my CPG, I am a Licensed Professional Geologist in the state of Indiana. I currently work as the Wellfield Protection Coordinator for the City of Columbus, Division of Water where I protect the groundwater aquifer that provides potable water to a portion of the Greater Columbus Area. Prior to joining the City in 2007, I worked as a Geologist for several consulting firms and the Kentucky Geological Survey on various remedial and resource investigations. While at the Survey, I worked on projects estimating the availability of coal resources, using remote-sensing and drilling techniques to locate groundwater supplies in fracture rock, and assessing non-point source pollution within a river basin in the eastern part of Kentucky. I have been part of the Ohio Section's Executive Committee since 2014 serving as Member-At-Large (2014 to 2016), Treasurer (2017 to 2019), and President-Elect (2019).

The 2020 Members-At Large for the Executive Committee will be Alex Conley, Mike Friedhoff, and Nelson Novak. Both Nelson and Mike are new to the Executive Committee. Dave Follet, who previously serviced as a Member-At-Large, will be serving as this year's Treasurer. For 2020, Alex Conley will also be serving as Secretary. Tim Brown will be serving as Past President for 2020. I look forward to working with these elected individuals as well as the following committee chairs in 2020: Shay Beanland (Newsletter Editor), Curtis Coe (Awards Chair), Brent Huntsman (Section Historian), Tom Jenkins (Membership Chair), Robin Roth (Student Chapter Chair), and Brent Smith and Carol Swinehart (Website Managers).

As I previous indicated, exciting events are planned for 2020. The Section will continue to host four regular dinner meetings this year. In addition, to having our April and Annual meetings in Columbus, the Section will host meetings in the northeast and southwest portions of the State. Our September dinner meeting will again occur in Streetsboro where Dr. Joe Hannibal of the Cleveland Museum of Natural History will be the featured speaker. The Section's first dinner meeting will be held again at Wright State University in Dayton on February 20th. More details on this meeting can be found on page 7 of this newsletter.

After the great success of last year, the Section will again host a charity golf scramble in the Columbus Area in May. Money raised from this scramble will again go towards our Student Chapters currently located at the Ohio State University, Wright State University,

and Youngstown State University. More details on the exact date and location of this year's golf scramble will be forthcoming over the next month.

The man-made PFAS chemicals, so called "forever chemicals", have moved past the "emerging contaminant" stage because of their presence in surface water, groundwater, drinking water, wastewater/bio solids, and recycled water. For this reason, the Section will host a PFAS Workshop on August 6th at the Fawcett Center of the Ohio State University. While the planning committee led by Colin Flaherty (CPG-11465) is still working on the exact details of the workshop, potential topics to be covered include sampling techniques, regulatory framework/requirements, analytical techniques, legal implications, and other up-to-date developments. So, save August 6th if you want to learn more about PFAS.

Finally, in early September, the Ohio Section will host a field trip examining the Upper Devonian through the Pennsylvanian sequences in Franklin and Licking counties. Details on the field trip will be released in the coming months. As a preview for this upcoming field trip, Samuel Hulett of the ONDR's Division of Geological Survey will give a presentation on these sequences at this April's quarterly dinner meeting.

As you can see, many exciting events are planned for 2020. Again, I am humbled and honored to serve as your President in 2020. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me. •

Robert E. Andrews, CPG-11975
2020 AIPG Ohio Section President

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Message from the Past President Timothy E. Brown, CPG-11637

Fellow AIPG Members,

It has been an honor and privilege to serve as Ohio Section President. The experience was incredibly rewarding, in the same manner as my entire involvement on the Executive Committee. As Past President this year I will enjoy my fourth consecutive year on the Committee, which was preceded by a lengthy run as newsletter editor. Over this period it's been great to get to know and work with other fellow geologists including experienced AIPG veterans such as Tom Berg, Tom Jenkins, Curtis Coe, Brent Huntsman, Brent Smith, and Colin Flaherty, just to name a few. Likewise the interaction with new members over the past several years on the Executive Committee has been just as rewarding. Together this mixture of experienced leaders and younger enthusiastic professionals has given the Ohio Section the energy and ambition over recent years to regularly sustain a status of being one of the most active AIPG sections in the country. The Section continues to be in good hands in 2020 with Robert Andrews serving as President.

One of the most important objectives for the Executive Committee is the yearly scheduling of dinner meetings for the membership. These meetings provide members and students alike the opportunity to assemble and network and hear diverse relevant topics while enjoying a fine dinner. Over recent years the Executive Committee has come to the realization of the importance of varying the geographical location of these meetings across the state, in an effort to provide an opportunity for members based outside the central Ohio area to attend a meeting without incurring exorbitant travel. We have also recognized that involving a local student chapter in the planning and organization of such meetings can significantly enhance the meeting experience while providing valuable practice to the organizing students. The Executive Committee realizes the importance of providing speakers from a variety of backgrounds including university professors, professionals, as well as individuals from the Ohio Geological Survey and the Ohio EPA. If any member knows of a potential speaker with a timely and interesting presentation for one of our dinner meetings I would encourage you to approach an Executive Committee member with that information.

Perhaps the biggest accomplishment of 2019 was the organization of the first annual Ohio Section Charity Golf Scramble. This endeavor was a learning experience for the individuals who volunteered on the organizing committee. Factors such as selecting and coordinating with a golf course, determining sponsorship levels, and seeking out raffle prize items were challenges for the committee. The event, which was held in June, turned out to be a

tremendous success, and over \$1,800 was raised for Ohio Section student chapters. The Section looks forward to continuing these golf outings in the future. One of the tasks for the 2020 Executive Committee will be to come up with ideas on how to use the charity proceeds to best benefit student chapters.

In closing, I would like to encourage all members to at some point in your career, reach out and become involved by volunteering on the Executive Committee. The opportunity to work with other professionals and establish relationships and expand your professional knowledge is invaluable. The Section has lots of exciting plans for 2020, so stay tuned. If you have any questions or would like more information about the AIPG Ohio Section, please don't hesitate to reach out to me or another Executive Committee member.

Thank you,

Tim Brown, CPG-11637
2019 AIPG Ohio Section President

Calendar of Upcoming Events	
February 20, 2020	AIPG Ohio Section 2020 Winter Meeting and Dinner Presentation –The Berry Room at the Nutter Center, 3640 Colonel Glenn Highway, Dayton – <i>featured presenter will be Mr. Jim Erjavec.</i> www.aipg-ohio.org .
April 16, 2020	AIPG Ohio Section 2020 Spring Meeting and Dinner Presentation – La Scala Italian Bistro, 4199 West Dublin-Granville Road, Dublin – <i>details to be announced.</i> www.aipg-ohio.org
May 2020	2020 Charity Golf Outing – <i>details to be announced.</i> www.aipg-ohio.org
August 6, 2020	PFAS Workshop – Fawcett Center of The Ohio State University – <i>details to be announced.</i> www.aipg-ohio.org .
September 2020	AIPG Ohio Section Field Trip Examining the Upper Devonian through the Pennsylvanian Sequences in Franklin and Licking Counties – <i>details to be announced.</i> www.aipg-ohio.org .
September 2020	AIPG Ohio Section 2020 Fall Meeting and Dinner Presentation – Streetsboro, Ohio – <i>featured presenter will be Dr. Joe Hannibal.</i> www.aipg-ohio.org

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Ohio Section 2020 Winter Meeting and Dinner Presentation

Feature Presentation: A New Map of Pleistocene Proglacial Lake Tight Based on GIS Modeling and Analysis

Presented By: Mr. Jim Erjavec, GIS & Environmental Management Technologies, LLC

The Ohio Section of AIPG is pleased to host Mr. Jim Erjavec at the Section's Winter Meeting and Dinner presentation, which will take place on Thursday, February 20, 2020 at the Berry Room at the Nutter Center, 3640 Colonel Glenn Highway, Dayton, Ohio. Mr. Erjavec will be presenting: A New Map of Pleistocene Lake Tight Based on GIS Modeling and Analysis. This event is sponsored by Alpha Analytical, ALS, Buckeye Elm Contracting, and Ohio Soil Recycling.

The event begins at 5:30 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. Please preregister and submit payment for the event via PayPal through the AIPG Ohio Section website <https://www.aipg-ohio.org/payment.php>.

*A New Map of Pleistocene Proglacial Lake Tight Based on
GIS Modeling and Analysis*

by Mr. Jim Erjavec

ABSTRACT

Glacial-age Lake Tight was first mapped by John F. Wolfe in 1942. Wolfe compiled his map from photographs of 50 USGS topographic maps, and used the 900-foot contour to delineate its shoreline. An estimate, as reported by Hansen in 1987, suggested an area of approximately 18,130 km² (7,000 mi²) for the lake. Using a geographic information system (GIS) environment, an updated map of Lake Tight was developed employing the 275-meter (902-foot) elevation contour. Calculations now suggest the area of Lake Tight was 43 percent larger or approximately 26,000 km² (10,040 mi²) and the volume approximately 1,120 km³ (268 mi³). The reconstruction of Lake Tight in a GIS creates a spatial analysis platform that can support research on the origin and development of the lake, the geologic processes that occurred as a consequence of the advance of the pre-Illinoian ice, and the origin of the Ohio River. The development of the upper Ohio Valley during the Quaternary Period remains one of the

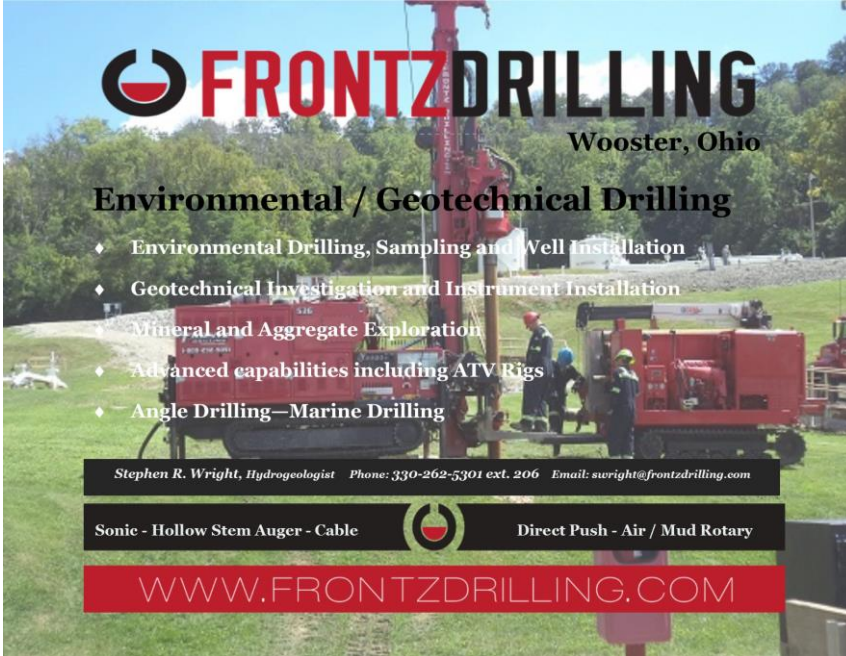
outstanding problems in North American geology. The details of the transition from the Teays River to Lake Tight, and from Lake Tight to the Ohio River, are poorly understood despite more than 100-years passing since the first significant study of those changes. A refined understanding of the area and depth of Lake Tight is essential but is complicated by fundamental unknowns—such as the location of the pre-Illinoian ice margin and the extent and consequence of isostatic flexure of the lithosphere due to ice-loading and lake-loading. Given the assumptions required for the model, the accuracy of both the raster data and the 1942 topographic maps, and the paucity of essential field data, mapping the lake shoreline at the widely cited 274.32-meter (900-foot) contour would not provide increased verifiable accuracy.

PRESENTER

Mr. Erjavec holds an MS in economic geology from The University of Arizona and a BS in geology from Cleveland State University. He has over 30 years of experience working in the geologic sciences and over 25 years of experience with geographic information system (GIS) technologies. He has been employed as a petroleum geologist for Texaco, Inc., a systems/GIS analyst for Intergraph Corporation, and a geologist/GIS analyst for Parsons Corporation. He has worked on three DOE environmental remediation projects in Ohio. Currently, he is providing geologic, hydrogeologic, environmental science, and GIS consulting for the DOE's environmental remediation project at the Portsmouth Gaseous Diffusion Plant in Piketon, Ohio. As an adjunct professor, he has taught geology courses at several colleges and universities. He is co-owner and President of GIS & Environmental Management Technologies, LLC.



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Ohio Section 2019 Annual Meeting Recap

Feature Presentation: Current Organization, Projects, and Research at the Ohio Geological Survey

Presented By: Mr. Mike Angle

Contributing author Robert Andrews, CPG-11975



President Tim Brown
welcoming the members

The 2019 Ohio Section's Annual Meeting was held on Thursday, November 21, 2019 at La Scala Italian Bistro in Dublin, Ohio. The event was well attended, with a nice crowd of members, spouses, and students from Ohio State University and Wright State University. The evening began with a social hour featuring a cash bar. The OSU and WSU chapters oversaw a 50/50 drawing, selling tickets throughout the social hour and dinner, with 50-percent of the collected money going to the drawing winner and the other 50-percent going to the student chapters.

Prior to the meal being served, President Tim Brown addressed the crowd with welcoming remarks and recapped the Section's 2019 accomplishments. Be sure to read Tim's farewell message for the highlights! In addition, Tim recognized the generous contribution of our meeting sponsors **Alpha Analytical, ALS, Buckeye Elm Contracting, Ohio Soil Recycling, Pace Analytical, and Terran Corporation.**

Brent Huntsman (CPG-04620), the Ohio Section's Historian, informed the audience that he has completed scanning all the historical documents for the section for the period 1974 to 2019. These documents will now be archived on the Section's server.

At the conclusion of the family style Italian meal, Tim introduced the evening's guest speaker, Mike Angle, State Geologist and Chief of the Ohio Department of Natural Resources (ODNR) Division of Ohio Geological Survey. His presentation was entitled ***Current Organization, Projects, and Research at the Ohio Geological Survey.***

During his remarks, Mike provided an overview of the current structure of the Ohio Survey and services being provided to the citizens of the State of Ohio. According to Mike, the survey is now organized into the following seven groups: Administration and Fiscal, Energy Resources, Geologic Mapping and Industrial Minerals, Groundwater, HRC/Lake Erie Science, Publications, and Geological Records Center and Archives. The Groundwater Group, which was

previously housed in the ODNR's Division of Water, was added in June 2017, marking the first time since the 1970s that the Survey had a groundwater section. According to Mike, the Survey is currently working on projects that include studying the resource potential of the Utica and Huron shales, mapping the surficial and bedrock geology of the state, evaluating the hydrogeologic properties of the state's groundwater, and monitoring shoreline erosion along Lake Erie. Mike concluded his presentation by informing members that 80% of the Survey's in-stock print publications are available for free. Geologists can simply stop by the Survey to pick-up a publication for free or just pay shipping and handling charges to have it delivered. Also, most out of print and in-stock publications are available on-line at the Ohio State University Knowledge Bank (kb.osu.edu). Geophysical logs are downloadable for free from the Oil and Gas Interactive Map viewer.



Mike Angle holding a plaque bearing Ohio state fossil, the *Isotelus maximus*

Following the presentation, Tim presented Mike with a plaque bearing Ohio State Fossil, the *Isotelus maximus*, as a token of appreciation for his presentation.

Tim then surprised Colin Flaherty, CPG-11465, with the Award for Outstanding Service to the Institute for his service to the Ohio Section of AIPG since 2014. Through Colin's efforts as Member-at-Large, Secretary, President-Elect, President, and Past-President, he has grown the stature of the Ohio Section and greatly contributed to its financial stability. Colin has served the Ohio Section with honesty, ethics, and integrity and has worked tirelessly on behalf of his fellow members to preserve the Institute's chartered purpose to increase public understanding and awareness of the profession of geology. Colin is an outstanding example for future generations of Ohio geologists.

Tim then introduced 2020 section President, Robert Andrews, so he could tell the audience about plans for the upcoming year. Please see President Andrews' Message in this newsletter for more details on the exciting things in store for 2020.

Following presentation of Robert's remarks, all attendees were entertained by a door prize give away of AIPG National items and bottles of wine provided by Alpha Analytical. The AIPG items included a backpack, beanie cap, canvas tote bag, fleece scarf, sportsman hat, sport bottle, and stainless-steel travel mug.

Throughout the evening, the OSU and WSU Student Chapters sold \$112 in raffle tickets. The winner of the 50/50 raffle, Dave Mustafaga, (CPG-09722), graciously donated his 50-percent back to these student chapters.

At the conclusion of the evening, those in attendance were awarded 0.1 Continuing Education Units for attending the meeting.

Thanks again to Mike Angle, all members who attended, the 2019 Executive Committee, and the OSU and WSU Student Chapters for making this a fun and memorable annual event! Again, special thanks to **Alpha Analytical**, **ALS**, **Buckeye Elm Contracting**, **Ohio Soil Recycling**, **Pace Analytical**, and **Terran Corporation** for sponsoring the event and for their continued support of the Ohio Section of AIPG.



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Tim presenting the Award for Outstanding Service to the Institute to Colin Flaherty



Members socializing before dinner.



Members of Ohio State Student Chapter in attendance



Members of Wright State Chapter in attendance



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THESE MAN-MADE, SO-CALLED "FOREVER CHEMICALS" ARE MOVING PAST THE "EMERGING CONTAMINANT" STAGE. JOIN US FOR THIS VERY TIMELY DISCUSSION.

ANTICIPATED TOPICS: UP-TO-DATE DEVELOPMENTS, SAMPLING PROCEDURES, ANALYTICAL LABORATORY PERSPECTIVE, REGULATORY FRAMEWORK/REQUIREMENTS, LEGAL IMPLICATIONS, ETC.

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(DETAILS TO FOLLOW)

WORKSHOP

News from Wright State University *Student Chapter of AIPG*



The WSU Student Chapter of AIPG has provided the *Newsletter* with a listing of officers for the 2019-2020 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, 2019 – 2020		
OFFICERS	President	Mike McKean
	Vice President	Paige Wilms
	Secretary	Sam Mulkey
	Treasurer	Margaret Lingane
ADVISOR	Stacey Hundley, Ph.D., Lecturer, Earth & Environmental Sciences Department, MEM-2546	

Below are the fall events that were held this semester and the upcoming winter events that are planned for the winter/spring:

- Winter Dinner for Ohio Section at WSU Nutter Center Berry Room on February 20th
- Spring trip to Ohio Caverns (TBD)

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



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- Soil vapor extraction and air sparging systems
- Groundwater recovery systems (GWR)
- Underground and above ground storage tank removal and construction
- Mine reclamation services
- Lagoon construction and closure

News from The Ohio State University Student Chapter of AIPG

The Ohio State University Student Chapter of AIPG has provided the *Newsletter* with a listing of officers 2019-2020 academic year.

The Ohio State University Chapter of AIPG, 2019 – 2020		
OFFICERS	President	Ljubomir Risteski
	Vice President	Molly Hunt
	Secretary	
	Treasurer	Kira Harris
ADVISOR	Frank Schwartz, Ph.D., College of Arts and Sciences, School of Earth Sciences	

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



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**News from Youngstown State University
Student Chapter of AIPG**



**YOUNGSTOWN
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Youngstown State University Student Chapter of AIPG has provided the *Newsletter* with a listing of officers for the 2019-2020 academic year.

Youngstown State University Chapter of AIPG, 2019 – 2020		
OFFICERS	President	Noah Allen
	Vice President	Eric Lloyd
	Secretary	Maura Salyard
	Treasurer	Justus Land
ADVISOR	Dr. Jeff Dick, Professor and Chair, Geological & Environmental Sciences	

Our group just took a winter cabin trip to Cook’s Forest on 18th and 19th. We used the trip to explore Cook’s Forest/Allegheny NF and to check out some awesome geology. The winter weather also added to the beauty.

As of right now we are in the works of trying to plan a spring weekend trip to Kelly’s Island. We did this a couple of years ago and everyone loved it so much we figured we should give it another go. We are also in the works of setting up a couple more fundraising events throughout the semester.

Thank you for your time and support!
Noah Allen

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

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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.

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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.