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American Institute of Professional Geologists

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March 2019 Newsletter

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AIPG Ohio Section 2019 Spring Meeting

Savor the Cryosphere

Presenter: Dr. Patrick Burkhardt, Professor at Slippery Rock University

Date: Thursday, April 18, 2019

Location: La Scala Italian Bistro
4199 W. Dublin Granville Rd, Dublin, OH 43017

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 6 for event details

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Message from the President

Timothy E. Brown, CPG-11637

Fellow AIPG Members,

It is an honor for me to serve as AIPG Ohio Section President for 2019. I have been privileged to work with many dedicated Ohio Section leaders during my service as Newsletter Editor and Member-at-Large. The effort and commitment of individuals such as Tom Jenkins, Curt Coe, Brent Smith, and Colin Flaherty in recent years, as well as many others, have been of incredible value to the Section. Thank you to all of these individuals!

It is with heavy hearts that the Ohio Section embarks on the new year. In December we lost Tom Swinehart, following complications from a surgical procedure. Tom was deeply committed to the Ohio Section, serving on the Executive Committee from 2016 through 2018 as a Member-at-Large, and 2018 as Secretary, and was set to continue in that role in the current year. Tom worked as a geologist for American Electric Power for 28 years. He was formerly the President of the local section of the Society for Mining, Metallurgy, and Exploration, and was a longtime member of the American Association of Petroleum Geologists. Prior to his professional career, Tom served his country in the Army in Vietnam, as a Sergeant in the Military Police. Tom and his wife Carol were regular attendees at the Section Dinner Meetings, and hopefully you had the opportunity to get to know him during one of these events. Tom was a good geologist and a great man and will be exceptionally missed.

With that being said the Executive Committee has two new members for 2019, as Alex Conley and Dave Follett have joined Ben White as Members-at-Large. Ben White has tentatively assumed the role of Secretary. Robert Andrews will serve as President-Elect, and also continues to serve as Treasurer, a position that he has held for several years.

We are excited about the 2019 calendar for the Ohio Section. Dinner Meetings and Presentations are scheduled for February, April, September, with the Annual Meeting in November. The Section is continuing efforts to vary meeting locations across the state, as the Winter (February) Meeting was in Dayton at Wright State University, and the Autumn (September) Meeting will likely be back in northeast Ohio in Streetsboro, as it was last year. The Spring Meeting and Annual Meeting will be held at La Scala in Columbus. Also in the works is an Ohio Section golf outing that may be scheduled for June. We are very excited about this potential event which is currently being organized – look for an official announcement with details in the coming weeks!

I encourage each of you to become involved in the Ohio Section. My personal involvement began in 2012, where near the end of the Annual Meeting and Dinner Presentation, President-Elect Tom Jenkins implored the attendees to consider volunteering with the Section. I made a decision to “get out of my comfort zone” and contacted Tom about becoming involved. As a result of that effort I had the privilege of becoming newsletter

editor and served in that position for five years. It has been quite a rewarding experience, having met and worked with numerous others during the process, and forming valuable professional relationships. There are many benefits to becoming involved in the Ohio Section, please consider volunteering!

The first meeting of 2019 was the Winter Meeting and Dinner Presentation, which was held at Wright State University (WSU). We were excited to host Ohio EPA Assistant Chief Mike Proffitt at the event, which was largely organized by the WSU student chapter.

If you have any questions or would like any additional information about the AIPG Ohio Section, please don't hesitate to reach out to me or one of the other Executive Committee members. For details on future meetings and field trips, please follow the adventures of the Ohio Section on the website. •

Tim Brown, CPG-11637
 2019 AIPG Ohio Section President

Calendar of Upcoming Events	
April 18, 2019	AIPG Ohio Section Spring Meeting and Dinner Presentation – La Scala Italian Bistro, 4199 West Dublin-Granville Road, Dublin – <i>featured presenter will be Dr. Patrick Burkhart, www.aipg-ohio.org.</i>
September 14-17, 2019	AIPG 2019 National Conference in Burlington, Vermont. www.aipg-ohio.org
September 26, 2019	AIPG Ohio Section Fall 2019 Meeting and Dinner Presentation - Boulder Creek Golf Club, 9700 Page Rd, Streetsboro, Ohio - <i>details to be announced.</i> www.aipg-ohio.org
November 21, 2019	AIPG Ohio Section Annual Meeting and Dinner Presentation – La Scala Italian Bistro, 4199 West Dublin-Granville Road, Dublin – <i>details to be announced;</i> www.aipg-ohio.org .



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Remembrance of Thomas Swinehart, CPG-03637

by Robert Andrews

The Executive Committee of the Ohio Section is saddened to report the passing of a dear friend and committee member Thomas Swinehart on December 20, 2018. He was a devoted husband to his wife Carol Swinehart (also a member of AIPG), a loving father to his two sons, and loving grandfather to his four grandchildren. At his memorial service, his eldest son described Tom as one who was sociable, had the patience of a saint, had an attention to detail, loved to travel (especially preparing detailed itinerary maps), and loved football (especially the Cleveland Browns). Tom earned a Bachelor of Arts degree from Muskingum University and a Master of Science degree in Geology from Miami University. Upon earning his masters, Tom was drafted into the Army where he served his country in Vietnam as a Sergeant in the Military Police from September 1969 to April 1971. Upon returning home, Tom worked as a geologist for American Electric Power until his retirement in 1999. During his retirement, Tom worked as a financial advisor for CKFS Web Page Design, served on the finance committee and board of the United Methodist Community Ministries, and was President and Meeting Planner for the local section of the Society for Mining, Metallurgy, and Exploration. Tom was a longtime member of American Association of Petroleum Geologist and a member of the Ohio Chapter of Palatines to America German Genealogy Society where he served as membership chairman. Tom was also a member and integral part of the Mills Memorial United Methodist Church of Lancaster, Ohio. As a valued member of the Ohio Section's Executive Committee, Tom served two years as Member-At-Large and was serving as Secretary at his untimely death. Tom will be greatly missed by all.



Ohio Section 2019 Spring Meeting and Dinner Presentation

Feature Presentation: Savor the Cryosphere

Presented By: Dr. Patrick Burkhart, Professor, Slippery Rock University

The Ohio Section of AIPG is pleased to host Dr. Patrick Burkhart at the Section's Spring Meeting and Dinner presentation, which will take place on Thursday, April 18, 2019 at La Scala Italian Bistro, 4199 W. Dublin Granville Road, Dublin, Ohio 43017. Dr. Burkhart will be presenting: Savor the Cryosphere.

The event begins at 5:00 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>. Please RSVP as soon as possible and pay for the event.

Savor the Cryosphere

by Dr. Patrick Burkhart

ABSTRACT

One day in 2014, while watching the news, I heard a politician say that climate change was pseudoscience. I thought: What, thermometers lie? So I resolved to do something about the disconnect between knowledge and perception.

I had seen *Chasing Ice*; I admit that it had brought tears to my eyes. So, I called James, asking him to work together. Then, I called Richard and Lonnie, and Greg and Paul. We agreed. Savor became a thing. This small team actually has a large footprint in the science of retreating glaciers. We packed the ballroom in the Baltimore Inner Harbor. After the Pardee Keynote Symposium, of course, we wanted to publish. The peer review assembled was remarkably heavy. Then, we made the cover of *GSA Today*.

For several years, I had consulted on environmental permitting for mining interests in the high, dry Andes of Argentina, 31 degrees south. With my MSc from WSU's fine hydrogeology program, I was charged with assessing vulnerabilities of alpine water supply. Who on Earth is worried about loss of ice in the mountains? Well, of course, most communities on downstream river banks, amongst others.

The photos I will share are inspiring – so much spectacular alpine geomorphology. The adventure was incredible. Geologic Taliban we were – packed into Toyota HiLuxes, grinding through incredible passes, driving across swollen rivers, but instead of AKs and RPGs, we were packing pH and flow meters, LiDAR, geophones, and such. The scenery is incredible, but the story, however, is more than a little troubling. Yikes.

Savor the Cryosphere. Google it.

PRESENTER

Dr. Burkhart joined the faculty of Slippery Rock University in 1998, teaching Hydrology, Hydrogeology, Environmental Geology, Glacial Geology, and Geomorphology. He holds a PhD from Lehigh, '94; MSc from WSU, '87; and a BA from CWRU, '85; all completed in Geology. His professional interests lie in water resources, landscape development, and environmental change. His students have examined the Badlands of South Dakota, glaciers in Alaska and Argentina, watersheds of Costa Rica, and many aspects of Pennsylvania geology. Back in the day, he worked for a time as a consulting hydrogeologist, pursuing water budget analyses, contaminant transport, and the remediation of petroleum hydrocarbon impacted aquifers. His research spans locales from the Arctic to the Antarctic, including tropical settings in between. One of his favorite activities is trekking in the footsteps of Charles Darwin, which has led to several scholarly reviews of the Master's works. He is happily married, with two fine daughters, who all enjoy pursuing adventurous discovery together. His pending destinations include Death Valley, Machu Picchu, and the Galapagos, all told, not too shabby for a flat-lander urban lad born upon the Lake Erie shore!



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Ohio Section 2018 Annual Meeting Recap

Feature Presentation: Geology of the Serpent Mound Structure

Presented By: Mr. Mark Baranoski

Contributing author Robert Andrews, CPG-11975

The 2018 Ohio Section's Annual Meeting was held on Thursday, November 15, 2018 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 Colin Flaherty addressed the crowd with welcoming remarks and a recap of the Section's accomplishment during 2018. Following the social hour, attendees were served a family style Italian dinner.

At the conclusion of the meal, Colin introduced the evening's guest speaker, Mark Baranoski, who gave a presentation entitled ***Geology of the Serpent Mount Structure***. Mark's talk presented a geologic overview of the serpent mount structure in southern Ohio.

Mark told members that when viewed from satellite imagery the structure is an 8 km (5 mile) diameter circular geologic feature located west of the Appalachian escarpment. On the ground, the structure is one of the most complex folded/faulted geologic structures in the region because it consists 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. Mark told members that the structure was first discovered in the 1830s by John Locke calling the area "Sunken Mountain." In the 1920's, it was renamed the Serpent Mound cryptovolcanic structure after the aboriginal serpentine effigy mount located in the transitional zone. In 1982, the structure was renamed Serpent Mound disturbance. According to Mark, the origin of structure remained controversial for many years. One group believed that it formed by deep seated endogenic cryptovolcanic forces and another group believed it was formed by a meteorite/comet impact. In 1990, the impact theory was confirmed when Richard Carlton and others discovered planar deformation features in quartz grains from a rock core drilled deep in the central uplift. Mark concluded his presentation by showing geologic evidence supporting the impact theory.



Following the presentation, Colin presented Mark with a plaque bearing Ohio State Fossil, the *Isotelus maximus*, as a token of appreciation for speaking and for his leadership of the section's field trip to Serpent Mount in June of last year.

Colin then introduced next year's section President, Tim Brown, so he could tell the audience his plans for 2019. Please see President Brown's Message in this newsletter for more details on the exciting things he has in store for 2019.

Colin then presented the following 2018 Ohio Section Executive Committee Awards and a AIPG National Award:

Presidential Certificate of Merit: Robert Andrews, CPG-11975 and Curtis Coe, CPG-06240

The Presidential Certificate of Merit is presented to an individual who demonstrates meritorious or unusual service to the President of the Ohio Section. This year two certificates were presented. The first to receive this award was the Robert Andrews, the current Treasurer, for going above and beyond the expectations for service to the section in 2018. Colin indicated that Robert was his right-hand-man in during his presidency and expressed a huge thanks for his service in 2018. The second certificate of merit was given to Curtis Coe for his efforts to organize the Serpent Mound Field trip this past June and for his continued efforts in support of the section.

Outstanding Service to the Institute Award: Tom Jenkins, CPG-07892

The Outstanding Service to the Institute Award is presented to individuals that have made outstanding contributions of time and effort to the Ohio Section of AIPG. The person receiving this award puts tireless effort for the Section and is the engine that helps to keep this Section going. Colin presented this award to Tom Jenkins for his many years of service to the Section. Colin indicated that it was Tom who recruited him to serve on the Executive Committee in 2014 and expressed his sincere thanks for suggesting that he participate in this committee.

AIPG National Section Leadership Award: Brent Smith, CPG-11130

The AIPG National Section Leadership Award was established by the National's Executive Committee in 2013 to recognize members who have demonstrated a long-term commitment and have been long-term contributors to AIPG at the section level. AIPG has many sections where one or more individuals have demonstrated exceptional leadership for their section and in many instances kept the section together and moving forward. These individuals are commonly not known at the National level or by AIPG members outside of their sections, however, their contributions have been vital to their sections and they perform this work because of their commitment to our profession and AIPG.

At the 2018 AIPG National Meeting in Colorado Springs, Colorado, this recognition was bestowed upon Brent Smith, our current Past-President, for his long-term commitment and contributions to the AIPG Ohio Section. Unfortunately, Brent was unable to attend the National meeting, so Colin had the privilege of presenting this award to him at this meeting.



Colin presenting Mark Baranoski with plaque bearing Ohio State fossil, the *Isotelus maximus*, as a token of



Colin presenting Brent Smith with his Award

In presenting this award, Colin indicated that Brent has been a part of the Ohio Section Executive Committee for last 10 years serving as Member-At-Large, Treasurer (for 6 years), President-Elect, President, and finally Past-President. Colin told the audience members that Brent has quietly been a driving force for the Ohio Section. Brent not only just served many titles on the Executive Committee, he has essentially been a “utility player” performing many vital tasks. He has been the assistant website manager, social media manager, and a member of the business development and membership sub-committee. During his presidency, he spearheaded the revamping of the Ohio Section website and oversaw the successful execution of an AIPG sponsored short course on vapor intrusion. Colin concluded by saying 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.



Colin presenting Tom Jenkins with his Award



Colin presenting Curtis Coe with his Award

Colin presenting Robert Andrews with his Award



Finally, Colin recognized the following for significant membership milestones.

Recognition for 50 Years of Membership

Dr. Charles Herdendorf, CPG-01831

Recognition for 35 Years of Membership

Curtis J. Coe, CPG-06240 and Henry C. Hunt III, CPG-06427.

Recognition for 25 Years of Membership

Stephen R. Doe, CPG-08750; Thomas J. Mignery, CPG-08858; Scott A. Hammond, CPG-08865; C. Kelly Smith, CPG-08927; Michael S. Blair, CPG-08937; Andrews G. McCorkle, CPG-08949; Kathleen M. Sarver, CPG-08956; Dennis P. Connair, CPG-08990; and Michael D. Weinstein, CPG-08999.



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Following presentation of awards, all student attendees were given publications donated by the Ohio Geological Survey and the Ohio Section. Additionally, all attendees were entertained by a door prize give away of AIPG National items. These included a fleece scarf, an outback hat, a sport bottle, a stainless steel travel mug, and a backpack.

The OSU and WSU Student Chapters were able to sell over were able to sell \$145 in raffle tickets. The 50/50 drawing was won by Robin Roth, CPG-09264, who graciously donated his 50-percent back to these student groups.

Finally, all those in attendance were awarded 0.1 Continuing Education Units for attending the meeting.

Thanks again to Mark Baranoski, all members who attended, the 2018 Executive Committee, and the OSU and WSU Student Chapters for making this a fun and memorable event! Also special thanks to **ALS, Buckeye Elm Contracting, and Terran Corporation** for sponsoring the event and for their continued support.



Publications donated by
ODNR and AIPG Ohio Section

Students from The Ohio State
University Chapter in attendance



Students from Wright State
University Chapter in attendance



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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 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. ●

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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 2018-2019 academic year.

The Ohio State University Chapter of AIPG, 2018 – 2019		
OFFICERS	President	Ljubomir Risteski
	Vice President	Kira Harris
	Secretary	Nick Reineck
	Treasurer	Prescott Vadaya
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 2018-2019 academic year.

Youngstown State University Chapter of AIPG, 2018 – 2019		
OFFICERS	President	Brigitte Petras
	Vice President	Bruno Abersold
	Secretary	Hayley Spalla
	Treasurer	Chris McFarland
ADVISOR	Dr. Jeff Dick, Professor and Chair, Geological & Environmental Sciences	

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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New State Geologist of Ohio

Contributing author Tom Berg, CPG-08208

It is with great enthusiasm that I make known the appointment of Mike Angle as 14th State Geologist of Ohio. On Tuesday, February 19, 2019, Ohio Department of Natural Resources Director Mary Mertz announced her appointment of Michael Angle as Chief of the ODNR Division of Geological Survey. Mike had been serving as Assistant Chief since 2012 under Chief Tom Serenko. On Serenko’s resignation in 2018, Mike was appointed as Interim State Geologist for the Ohio Survey.



Mike has a long history of service in the State of Ohio, having worked for 38 years in ODNR’s Division of Geological Survey and Division of Water. He also served as Geologist Supervisor for the Geologic Mapping and Industrial Minerals Group and Mapping Geologist for the Regional Geology Section. He also held several positions with the ODNR Division of Water and authored more than 20 maps and more than a dozen articles and publications on various aspects of Ohio’s geology and hydrogeology. Mike earned his bachelor’s and master’s degrees in geology from the University of Akron, with a specialty in glacial geology and hydrogeology. He is one of the finest geologists I have known.



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Meeting Complex Environmental Regulatory Requirements



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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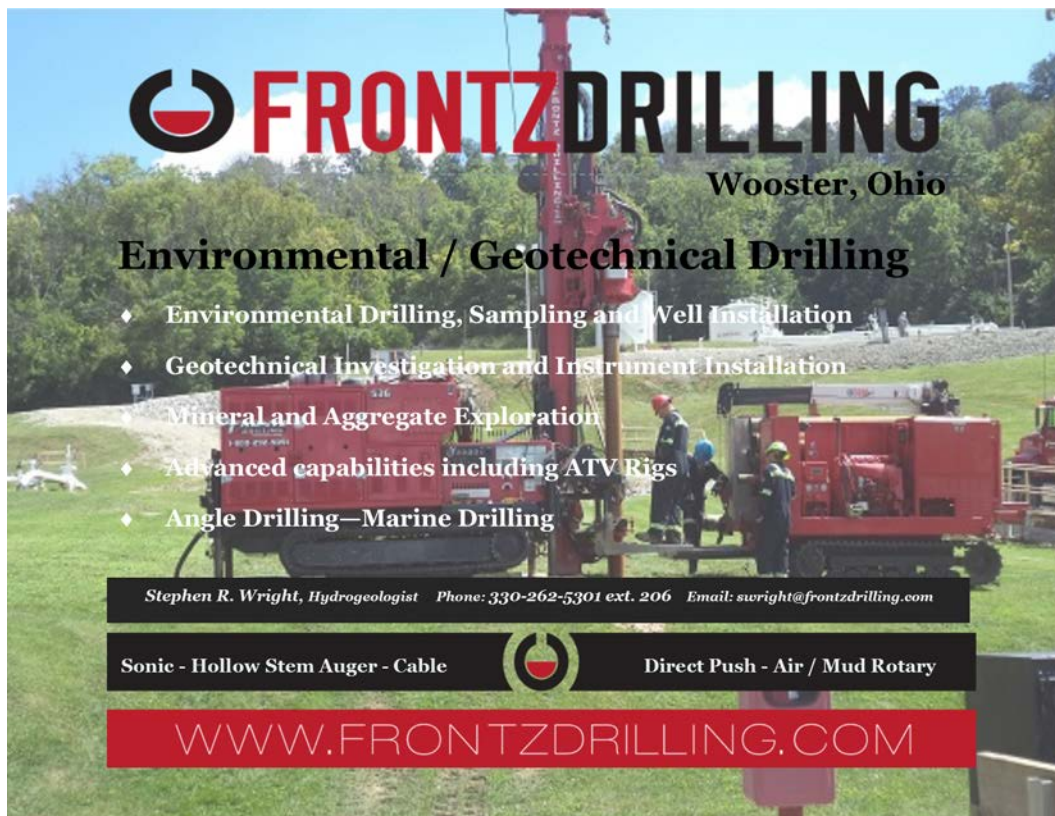


Letters to the Editor and Editorial Submittal Guidelines

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.




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