



Ohio Section American Institute of Professional Geologists

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June 2020 Newsletter

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AIPG Ohio Section 2nd Annual Charity Golf Scramble

Date: Friday, July 24, 2020

Location: Pine Hill Golf Club
4832 Kaufmann Rd NW, Carroll, OH

Schedule: Shotgun Start begins at 12:00 pm; Dinner begins at 5:00 pm catered by City BBQ and Awards Presentation at 5:30 pm

Cost: \$75.00 per golfer – Early Bird
\$85.00 per golfer – After July 10, 2020

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

See Page 5 for event details

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Message from the President

Robert E. Andrews, CPG-11975

Greetings fellow AIPG Ohio Section members

I hope as you read this newsletter you all continue to remain safe and healthy. The COVID-19 outbreak has definitely turned each of our lives upside down. I am sure some of you have returned to working in your offices and yet some are still working from home. We are all getting use to a “new normal,” which we could be dealing with for some time to come.

Rest assured the Ohio Section’s Executive Committee has been monitoring the COVID-19 situation. Unfortunately, the current outbreak has caused the Section to cancel and reschedule some of the events planned for 2020.

First, we have decided to cancel our Spring Quarterly Meeting scheduled for June 18th at La Scala Restaurant in Dublin, OH. Since the speaker for this event, Samuel Hulett of ONDR’s Division of Geological Survey, was going to prepare members for our upcoming field trip still planned for September 12th, we are planning to have him give his presentation the night before this event at a location to be determined. Once the details are finalized, I will let everyone know.

Second, we have decided to postpone the PFAS workshop, originally scheduled for August 6th, until 2021. The Executive Committee is still committed to provide a forum where members can get up-to-date information on PFAS chemicals. Later this year the planning committee, led by Colin Flaherty (CPG-11465), will determine the best date for the conference in 2021. This conference will still occur at the Fawcett Center of the Ohio State University Campus in Columbus.

Third, the 2nd Annual Charity Golf Scramble is now scheduled for July 24th at the Pine Hill Golf Club in Carroll, OH. As with last year, money raised from this scramble will go toward our Student Chapters currently located at the Ohio State University, Wright State University, and Youngstown State University. More details on this event can be found on page 5 of this newsletter. Registration is now open.

As of right now, the rest of the events planned for 2020 are still as scheduled. If there is a change in these events, I will let you know via our newsletter or an email blast.

I would like to conclude my message by announcing that in May the Executive Committee voted to award \$500 scholarships to three students who applied for AIPG National’s 2020 Undergraduate Scholarships. The winners of these scholarships are Molly Hunt of The Ohio State University, Erica Scarpitti of The Ohio State University, and Paige Wilms of Wright State University. Congratulation to each of these students. Details on these students can be found on page 14 of this newsletter. The funds used to provide these scholarships were from money raised at last year’s Charity Golf Scramble.

While the first half of 2020 has not turned out as planned, I look forward to hopefully seeing each of you at one of our remaining events planned for this year. Again, I hope everyone remains healthy. 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

Calendar of Upcoming Events	
July 24, 2020	AIPG Ohio Section 2nd Annual Charity Golf Scramble, Pine Hill Golf Club, 4832 Kaufmann Rd, NW, Carroll, Ohio. www.aipg-ohio.org
September 12, 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 24, 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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AIPG Ohio Section *2nd Annual* Charity Golf Scramble

The Ohio Section of the American Institute of Professional Geologists is pleased to announce its second annual

18-HOLE GOLF SCRAMBLE

Friday, July 24, 2020

Pine Hill Golf Club

4832 Kaufmann Road NW, Carroll, Ohio

www.pinehillgolfclub.com

12:00 pm Shotgun Start

5:00 pm Dinner catered by City Barbeque

5:30 pm Awards Presentation

Cash bar

Ohio Section AIPG Members, spouses, friends, family, students, don't miss this fun event! Sign up even if you are not part of a foursome - we'll put you on a team. Proceeds will go to support the Ohio-based AIPG Student Chapters!

Registration: Early Bird - \$75/golfer
After July 10 - \$85/golfer

Registration
closes
on July 17th!

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Ohio Section 2020 Winter Meeting Recap

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

Contributing author Tim Brown, CPG-11637

The Ohio Section held its 2020 Winter Meeting and Dinner Presentation on the campus of Wright State University (WSU) in Dayton, Ohio on February 20, 2020. The event, which took place in the Berry Room at the Nutter Center, marked the fifth consecutive year that the Section's Winter Meeting was held on the WSU campus. The Winter Meeting was sponsored by **Alpha Analytical**, **ALS Laboratories**, and **Buckeye Elm Contracting**.



Jim Erjavec of GIS & Environmental Management Technologies, LLC was the featured presenter for the evening, delivering *A New Map of Pleistocene Proglacial Lake Tight Based on GIS Modeling and Analysis*. The event was coordinated with the significant efforts of the WSU student chapter, led by President Mike McKean, Vice President Paige Wilms, Secretary Sam Mulkey, and Treasurer Margaret Lindane, under the guidance of advisor Dr. Stacey Hundley. Highlights included a student chapter organized raffle and silent auction. The event was well attended by a diverse mixture of professionals, WSU faculty, and students from the WSU Department of Earth Sciences.

The Winter Meeting marked the first event for new Ohio Section President Robert Andrews, who welcomed the attendees and delivered opening remarks. President Andrews gave a summary of the planned Section events for the year, after which guests enjoyed a delicious buffet dinner.

At the conclusion of dinner Jim Erjavec gave his presentation on Lake Tight, a glacial-age water body first mapped by John Wolfe in 1942. Mr. Erjavec explained that by using geographic information system (GIS) processes, an updated map of Lake Tight was developed suggesting that the area of the lake (approximately 10,040 mi²) is 43 percent larger than that previously



estimated by Hansen (7,000 mi²) in 1987. The reconstruction of Lake Tight in GIS creates a spatial analysis platform that can support research on the origin and redevelopment of the lake, the geologic processes that occurred as a result of the pre-Illinoian ice advance, and the origin of the Ohio River. Jim noted that the details of the transition from the Teays River to Lake Tight, then to the Ohio River, are poorly understood despite over 100 years since the beginning of their study, and that the development of the Upper Ohio Valley during the Quaternary period remains one of the outstanding problems in North American geology. Following the conclusion of the talk, Ohio Section President Robert Andrews presented Jim Erjavec an engraved plaque to convey the Section's appreciation.

A special presentation was then made by President Andrews to two WSU graduate students for their contributions to the WSU student chapter. Ph.D. students David Peterman and Ryan Shell have been instrumental and significantly involved with the WSU student chapter of AIPG over their academic careers at the university. Both students presented their research at the Ohio Section's 2018 Winter Meeting, as Mr. Peterman conferred *Ectocochleate Cephalopod Hydrostatics: 3D Reconstruction and Computation of Life Orientation and Static Stability during a Neutrally Buoyant Condition* and Mr. Shell delivered *Marine Vertebrate Ecology in the Early Permian*. In addition, both students have led student chapter AIPG-sponsored field trips and donated specimens for silent auctions to raise funds for the student chapter. Both students are expected to receive their doctorate degrees from WSU in the near future and move on to future endeavors. As a result of their contributions the Ohio Section presented each with an engraved plaque.



The final festivities for the evening included the drawing of raffle tickets for prizes by the WSU student chapter, and the close of the silent auction for a variety of specimens donated by David Peterman and Ryan Shell.

The AIPG Ohio Section would like to thank all who helped to make the evening an enjoyable and memorable event. The contributions of the WSU student chapter are greatly appreciated, and the event certainly measured up to the high standards of previous events. The 2020 Winter

Meeting and Dinner Presentation was a great kickoff to what was planned to be a busy and productive year for the AIPG Ohio Section. •



Wright State University Student Chapter of AIPG



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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 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	

Congratulations to Paige Wilms who was awarded a \$500 scholarship from the Ohio Section of AIPG by applying for AIPG National’s 2020 Undergraduate Scholarships. Her essay is included in the Scholarship Winner section of this newsletter (starting on page 14).

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 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	

Congratulations to Molly Hunt and Erica Scarpitti who were both awarded a \$500 scholarship from the Ohio Section of AIPG by applying for AIPG National’s 2020 Undergraduate Scholarships. Their essays are included in the Scholarship Winner section of this newsletter (starting on page 14).

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
STATE UNIVERSITY**

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	

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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Ohio Section 2020 Scholarship Winner Essays

The Executive Committee of the Ohio Section voted in May to award \$500 scholarships to three students who applied for AIPG National's 2020 Undergraduate Scholarships. The winners of these scholarships are Molly Hunt of The Ohio State University, Erica Scarpitti of The Ohio State University, and Paige Wilms of Wright State University. Each were required to write an essay entitled "Why I Want to Be a Geologist." Below are the essays each submitted and additional information they provided. This information was published in the July/August/September 2020 Issue of TPG along with the rest of AIPG National 2020 Scholarship Winners. The funds used to provide these scholarships were from money raised at last year's Charity Golf Scramble.

Paige Wilms, SA-9748, Wright State University



Geology is defined as "the science that deals with the earth's physical structure and substance, its history, and the processes that act on it." Geology encompasses such a broad field of study and there is much of the earth's history that remains unknown. I want to be a geologist because I want to research, discover, and experience earth's unknown history! I aspire to find myself standing in front of a picturesque landscape seconds away from starting my field work. For example, think of the last time you were visually taking in a mountain range or a rift valley and wondering about how and why these views came to be. I recall thinking these thoughts prior to college, which motivated me to take my first geology course. In this course I learned about geologic topics starting at geologic time and fossils and finishing with plate tectonics. Fast forward to the next summer, I found myself wanting to put my newfound knowledge to use. I packed for a trip and drove down the east coast, taking pictures and applying my skillsets to as many geological features I could find. Eager to get my hands on as much of the geological time as I could find, I stopped at gem mines and famous fossil hunting sites. This trip was my first hands-on experience which led me to my true passion, paleontology. After taking my first paleobiology class I was hooked. That semester I started volunteering at the Cincinnati Museum center in the PaleoLab. I was forever changed after I took the jacket off of the first specimen I was working on, a Triceratops horn from the Hell Creek Formation. The best part of this experience was seeing these fossils up close and learning how to prepare these specimens for the public. A huge part of my love for geology is being able to educate people about the world around us. I am a teaching assistant for two different introductory geology courses. Teaching has helped me better myself as a geologist because it allows me to take the concepts I have learned, and to translate them to help other students better understand the materials. Teaching has allowed me to broaden others' minds about geology. I enjoy getting to show students things they have never seen before, or helping them to explain the geologic features they have seen. I also am a supplemental instructor for the introductory geology course. In this role, I create lesson plans and lecture over this material. Through this, I work with students to find the best way that they learn so I can help them understand the material. I enjoy serving in a role where I get to make geology

fun and accessible to all students. In these courses I am able to share my passion and help students get hands on experiences with the materials. I love the interdisciplinary nature of geology. I appreciate the fact that geology always has more to offer and the progression toward learning more. I want to be a geologist because I never want to stop learning, exploring, and questioning the natural world and how it came to be.

About the Essayist

Paige Wilms is an Earth Science student at Wright State University. Her research interest is in vertebrate paleontology, specifically chondrichthyans and early fishes.

Molly E. Hunt, SA-10630, The Ohio State University



Geology is the art of Earth's storytelling, and it's the story I cannot wait to spend the rest of my life telling. You asked me to share why I want to pursue a career as a geologist? Well I have wanted to be a scientist since the innocent age of five and nurturing my curious mind through the geological sciences has been my saving grace. Every time I pick up a fossil sample, or create a chemical reaction in lab, or show a group of eager youth how to crack open a geode I feel something special. Being involved in Earth Sciences allowed me to work on questions, design my own tests, create my own models and build my understanding of how science, technology, engineering, and mathematics impact our lives while working with

others. This experimental approach to learning has opened doors to me for increased learning and exploration.

My passion for geology first began at the age of five when a shoe box of rock samples was bestowed upon me by my late grandmother. These few samples soon turned into a now respectable collection of approximately 300 samples of rocks, minerals, and fossils that I collected have in the years since. As a child I spent hours in the local public library fulfilling my curiosity and rejoicing in the opportunity to share my knowledge with anyone willing to listen. This passion did cause me to face adversity early on, as many fellow students in my close-knit elementary school teased me about my rock collection. They called me weird and told me that only boys could be scientists. Regardless of their words and ignorance I continued to explore my interests collecting as many samples, and books as possible. Then when I was eight years old I first set foot into the National Natural History Museum in Washington D.C. and this bright-eyed girl found her passion. Wandering around the halls of fossils and ancient animals hooked me and paleontology and museum studies have held me captivated ever since.

High school was when I truly realized the strength of my passion. Mr. Mike Koenig, the geology professor at the local community college challenged and encouraged me through lab work and field experience in Ohio Aggregates and Industrial Mining Association affiliated limestone quarries. Mr. Koenig encouraged me to compete in science fairs, where I presented my research done on prehistorical fossils at The Ohio State University My entire childhood I dreamed of being a geologist, and now as a student at The Ohio State University my dream is coming true. Paleontology is the area of geology I wish to pursue as a career. To me paleontology is a world that has opened its arms and accepted a young girl who never accepted herself. I have always been fascinated with history and geology and I am delighted

that I can explore both interests in my college and professional career. Telling the story of what our Earth and its inhabitants looked like millions of years ago is my deepest joy, especially when I get to share that with young children. I hope to be a scientist they all can look up to.

About the Essayist

Molly Elizabeth Hunt is an undergraduate student at The Ohio State University in the School of Earth Sciences studying Vertebrate Paleontology under Dr. Jonathan Caledo. She is also the education and collections assistant at The Orton Geological Museum on OSU's campus.

Erica Scarpitti, SA-10594, The Ohio State University



I believe that our Earth is in critical condition. The global population is rising at an exponential rate and developing countries need the energy that only nonrenewable resources provide. Developed countries are capable of switching to renewable energy, but we are still in a period of transition where society is not capable of completely operating without nonrenewable energy yet. How are we going to possibly get energy to the populations of the world that need it the most? The United States and Europe developed without consideration for the environmental footprint it would leave; is it fair for us to deprive developing countries of environmentally negative energy usages? As climate changes and sea levels rise, some of the world's poorest populations are at risk. What do we do to ensure their safety? How do we protect the ecosystems and species that have suffered because of human-influenced CO₂ rise? As

geologists, we know that there have been global warming and cooling periods for millions of years. However, none of the species living before us had the consciousness to make such extreme decisions when it came to resources, the landscape, and the environment. Geologists are needed now more than ever to conduct glacial, geochemical, and environmental studies as well as improve energy efficiency from natural resources. I want to be a geologist because I am fascinated by the interconnectedness of earth processes and I want to help the integrity of our environment and species through this understanding.

Additionally, I believe that geologists are the communicators among the sciences. We can speak in different languages; such as chemistry, biology, physics, and mathematics. Our background allows us to excel in leading because it's easy to communicate with various professions. We need a solid foundation in all of the sciences to do the interdisciplinary work that earth-related questions require. We're also puzzle solvers; when looking at an outcrop, a person only sees the final product. The interpretation of energy dynamics to form a particular structure involves critical thinking and knowledge of natural materials, movement, and processes. The critical thinking skills that geology requires prepare students for any job that requires thoughtfulness.

My love for the Earth and these personal attributes is what brought me to the geologic field. I did not grow up looking for rocks or playing with dinosaurs; before high school, I wanted to pursue art. However, when I started learning about evolution, I began researching deep time and paleontology in an attempt to understand Earth's vastness. We say millions and billions of

years commonly in class, yet I still don't think I'll ever grasp how old the Earth actually is. Geology has brought me a community that I love as well. Niche-specific research has global implications because every biological, chemical, and physical process can be related to earth dynamics. Geology has allowed me to travel and see beautiful parts of the world; understanding how a landscape formed makes me appreciate it more and I feel enthusiastic to share this knowledge with others. Most importantly, however, I want to be a geologist because I am concerned for the condition of our planet and I want to devote my skills to researching viable solutions for sustaining us. The interdisciplinary nature of geology and earth science makes me feel optimistic about deepening our knowledge of the planet and contributing significant research that has practical applications for sustenance.

About the Essayist

I am studying Earth Science with a specialization in Geophysics and Petroleum Geology and minors in Environmental Science and Sexuality Studies at The Ohio State University. I am in a paleontology research lab where I have been working on a comparative study of rodents to infer fossil locomotions using their auditory morphology.

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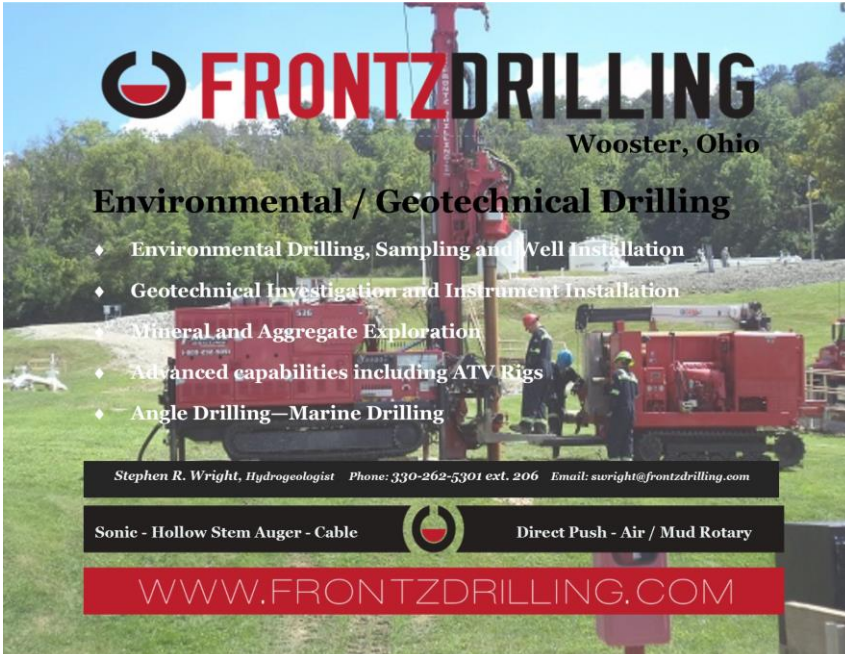
Contributing author Tom Jenkins, CPG-07892

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.