Ohio Section
American Institute of Professional Geologists

Chartered 1965 April 2025 Newsletter

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AIPG Ohio Section Winter Meeting

Chondrichthyan Diversity across the Carboniferous-Permian Boundary in North America

Presenter: Mr. Dan Cline, PhD. Student, Wright State University

Date: Thursday, April 10, 2025

Location: Student Union at Wright State University
210 Student Union
Atlantis Room (157 A/B)
3640 Colonel Glenn Highway
Dayton, OH 45435

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

Event Registration Payment: https://aipg-ohio.org/meetinginfo.php
See Page 12 for event details

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Message from the President

Dave Follett, CPG - 12034

Dear Fellow AIPG Ohio Section members,

I am writing this having just returned from the Ohio Section's geologic hike at Blendon Woods Metro Park. This free hike was led by Dr. Mohammad Fakhari, structural geologist at the Ohio Department of Natural Resources, Division of Geological Survey. The Section saw a great turnout and I would personally like to thank Dr. Fakhari and ODNR for donating their time and expertise to make this hike possible. Details on this hike will be forthcoming in an upcoming newsletter.

I am excited to announce that the Ohio Section is hosting the Spring Quarterly Dinner Meeting on April 10, 2025 at Wright State University in Dayton, Ohio. Our speaker will be Dan Cline, PhD student in the Department of Earth and Environmental Sciences at Wright State University; his presentation will be "Chondrichthyan Diversity across the Carboniferous-Permian Boundary in North America." More details on this meeting can be found on page 10 of this newsletter.

As with previous years, the Charity Golf Scramble will return to the Chapel Hill Golf Course in Mt. Vernon on June 13, 2025. It should be noted that the Charity Golf Scramble has raised over $13,000 for our Student Chapters since its inception. Our start time will be at 8:45 AM and a late lunch of burgers and brats will be provided by Chapel Hill. Money from this event will again go towards our Student Chapters currently located at the Ohio State University, Wright State University, and Miami University. Registration will open soon. Details on this year's scramble event can be found on page 12 of this newsletter. Those looking to be a sponsor for the scramble should contact our section Treasurer, Hugh Downer, at treasurer.aipgohio@gmail.com.

Lastly, I would like to provide a reminder that this year marks the AIPG National's 62nd Annual Conference in St. Louis, Missouri, October 4th through the 7th. The theme of this conference is: "The Gateway for Tomorrow's Geologist," promises to inspire and challenge us as we look toward the future of geoscience. Registration is currently open for Sponsors and Exhibitors, Individual registration will open soon. More information on the conference can be found at https://aipg.org/events/EventDetails.aspx?id=1929995.

I look forward to seeing you at our Spring dinner meeting this month and our Charity Golf Scramble in June. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me.

Sincerely,

Dave Follett, CPG-12034
2025 AIPG Ohio Section President

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AIPG Ohio Section 2025 Schedule

April 8, 2025	Discoveries 2025 Mining Conference (Mazatlan, Mexico)
April 10, 2025	Ohio Section Spring Meeting at Wright State University
April 25, 2025	AIPG Texas GeoDayz
May 8-16, 2025	AIPG 2025 Cornwall England Field Trip
May 14, 2025	Ohio Section Executive Committee Meeting
June 10, 2025	AIPG Michigan Section 14th Annual Workshop
June 13, 2025	7th Annual Golf Scramble at Chapel Hill
August 20, 2025	Ohio Section Executive Committee Meeting
September 18, 2025	Tentative date for Ohio Section Fall Meeting at Miami University
October 4-7, 2025	AIPG National Annual Conference, St. Louis, Missouri
October 22, 2025	Ohio Section Executive Committee Meeting
November 20, 2025	Tentative date for Ohio Section Annual Meeting

We are hoping to announce other events. Please check out our website frequently: aipg-ohio.org

Last Tuesday of every month – AIPG Lunch and Earn @ 1:00 PM Eastern aipg.org/events/ for more details

Third Tuesday of every month at 12:00 PM (Central Time) the Texas Section hosts a webinar for 1 PDH credit. February 18, 2025 is going to be by Dr. Rebecca Smyth of the Texas Bureau of Economic Geology on Groundwater Systems of the western Panhandle of Texas.

Have an event you want to add, please send submittals to the editor at pchasco@nrmsolution.com or pdchasco@gmail.com.

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Miami University AIPG Student Chapter Meeting

By: Lauren Decker, ECP-1127

AIPG Ohio Section members Bridgitte Petras (former national early career professional) and Lauren Decker (Member-at-large) were invited to speak at Miami University's AIPG Student chapter meeting on February 5, 2025. AIPG Ohio Section President-Elect Mike Friedhoff was also in attendance. The student chapter meeting was well attended and the Ohio Section provided pizza for the event. The student chapter had a strong interest in the topic of professional development. Speakers (Petras and Decker) both discussed their educational and professional experiences including field camp and research involvement, various internship experiences, networking opportunities, and insight into their current career paths. Feedback received from the student chapter: "The part I found the most informative were the paths they took in their education and careers as it showed the trajectory that many of us are on." and "I really appreciated them going into detail about their work and the potential for us to explore internships."

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Ohio Section 2025 Winter Meeting Recap

Feature Presentation: Earthquake History of Ohio Imprinted in Paleozoic Formations

Presented By: Dr. Mohammad Fakhari, Geologist in Bedrock Geology and Mapping at The Ohio Geological Survey, Ohio Department of Natural Resources

By Lauren Decker, ECP-1127

On February 20th, 2025, the Ohio Section held its Winter Quarterly Meeting at The Boat House at Confluence Park in Columbus, Ohio. The event was well attended by the student members of The Ohio State University AIPG Student Chapter, as well as professional AIPG members. The event began with a social hour allowing student and professional members time to mingle.

The social hour ended with welcoming remarks from President Dave Follett (CPG-12034). President Follett highlighted several announcements, including the re-launch of the Ohio Section Facebook page, a reminder about the upcoming geologic hike of Blendon Woods Metro Park, and the next AIPG-Ohio Section meeting that will be held in April. The welcoming remarks were concluded with a recognition of the generous contributions from our meeting sponsors, then Dr. Mohammad Fahkari of The Ohio Geological Survey was introduced as the evening's guest speaker.

Winter 2025 meeting dinner preceding the feature presentation

Dr. Fakhari giving his presentation.

Dr. Fahkari's presented his recent research study conducted throughout Ohio, identifying signs of earthquakes in sediments and rocks. Ohio is known to have minimal faults present and earthquake magnitudes which range from 2 to 5.4. Dr. Fahkari recognized various locations in Ohio where deformation features, seismites, were present. Seismites are soft-sediment deformation in seabed sediments caused by seismic activity and dependent on the epicenter of an earthquake. Dr. Fahkari explained how to identify seismites by making the following observations: sudden, violent deformation, faults and folds, geographic distribution, and whether the tops are eroded.

After explaining the background of seismites, Dr. Fahkari then led into a discussion on seismites in Ohio from the Pennsylvanian, Mississippian, Devonian, Silurian, and Ordovician, and the locations where seismites were found associated with each geologic period. He began with the Ordovician in the Point Pleasant Formation in southwest Ohio made up of limestone and shale, then led to the Silurian in the Bass Islands Formation. Devonian seismites were pictured, southwest of Portsmouth, with a vertical sand dike in shale, the Bedford Shale at Old Woman Creek, road cuts in Sunbury at Walnut Creek with seismites in the Berea Sandstone, and Euclid Creek in Cleveland with folded, faulted beds yet the lower layers were flat and horizontal. Pennsylvanian seismites were located at Gorge Metro Park in Akron in the Sharon conglomerate. Mississippian seismites were in the Fairfield Member of the Logan Formation in Hocking County and the photos made it apparent that the sand had violently rolled over to create these seismites. The Mississippian also had large scale seismites in the Black Hand sandstone in Clear Creek Metro Park triggered by an earthquake to cause such major soft-sediment deformation at this location. Photos at Mohican State Park showed folded beds with unfolded layers in the Berne Member, and at the base were mud cracked layers turned upside-down.

A seismite that Dr. Fakhari brought in to show the attendees.

Dr. Fakhari continued to explain the geometry of the synclines determines the direction of the earthquake epicenter. The soft layers fold perpendicular from the direction of the epicenter during an earthquake. Visual cues would include a similar fissure to be parallel and wide synclines to be perpendicular. These visual cues are seen in the Cowbell Member with overturned folds and the asymmetry of the folds identified the direction. This is due to the P wave pushing the bedrock and soft layers falling back to create the fold. During this study, old cores were cross-checked with the areas and it was determined these deformation features are clearly seismites.

Ohio Section President Dave Follett presenting Dr. Fakhari with a token of appreciation.

A graph depicting magnitude versus epicentral distance had fault activity curves plotted to lead us to Dr. Fahkari's latest research interest, to relate faults to seismites. It is difficult to correlate the time of impact with a seismite but the size can help determine this. Data from different known epicenters can also help determine the associated seismites. For example, a 7 or greater magnitude earthquake would likely form a seismite at a 110 km distance. Smaller scale seismites are farther from tectonic activity and the epicenter, and larger scale seismites are closer. Seismite size in clastic sediments are influenced by the thickness of the affected soft-sediments. Multiple earthquakes can be identified by different sized seismites and their distribution across Ohio.

Ohio Section Past-President Mike Friedhoff presenting Hugh Downer with an Outstanding Service to the Institute award.

After questions from the audience, President Follett presented Dr. Fahkari with a token of appreciation. Attendees joined in thanking Dr. Fahkari with applause and appreciation.

Closing remarks included Past-President, Mike Friedhoff (CPG-11093), awarding Hugh Downer, Ohio Section Treasurer (CPG-11815), for his outstanding service on behalf of the Institute.

A big thank you to all members that were able to attend the Winter Meeting, and to the 2025 Executive Committee for setting up the event! Lastly, another recognition and thank you to the meeting sponsors: ALS Environmental, Buckeye Elm Contracting, Environmental Risk Information Services, K3 Complete, Lightbox, Ohio Soil Recycling, Pace Analytical Services, WIN Waste Innovations, and White Oak Environmental & Safety.

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AIPG Ohio Section 7th Annual Charity Golf Scramble

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

18-HOLE GOLF SCRAMBLE

Friday, June 13, 2025

Chapel Hill Golf Course
7516 Johnstown Road, Mt. Vernon, OH
www.chapelhillgolfcourse.com

8:45 am Shotgun Start
2:00 pm Lunch (Burgers and Brats)
catered by Chapel Hill Golf Course
2:30 pm Awards Presentation
Cash Bar

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

The event will feature Prizes for
1st, 2nd, and 3rd place, longest drive, and closest to pin.
Don't miss the raffle!

Registration: Opening Soon.
Limited to 60 Players.

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Look For Details On-line At:
www.aipg-ohio.org/meetinginfo.php

Ohio Section 2025 Spring Meeting

Feature Presentation: Chondrichthyan Diversity across the Carboniferous-Permian Boundary in North America

Presented By: Mr. Dan Cline, PhD Student at Wright State University

The Ohio Section of AIPG is pleased to host Mr. Dan Cline, at the Section's Spring Meeting presentation, which will take place Thursday, April 10, 2025 at the Student Union at Wright State University located at 3640 Colonel Glenn Highway in the Atlantis Room (157 A/B) in Dayton. Mr. Cline will be presenting a talk on chondrichthyan diversity in North America across the Carboniferous-Permian boundary. This event is sponsored by ALS Environmental, Buckeye Elm Contracting, Environmental Risk Information Services, K3 Complete, Ohio Soil Recycling, Pace Environmental Services, and WIN Waste Innovations.

The event begins at 5:00 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. The cost is $40 for members and guests or $15 for students. Please preregister and submit payment for the event via the AIPG Ohio Section website https://aipg-ohio.org/meetinginfo.php.

The featured topic will be: Chondrichthyan Diversity across the Carboniferous-Permian Boundary in North America presented by

Mr. Dan Cline

SUMMARY

Please join us for a presentation by Mr. Dan Cline on Chondrichthyan Diversity across the Carboniferous-Permian Boundary in North America. Chondrichthyes are a class of jawed fish that have skeletons that are mainly composed of cartilage that include sharks, rays, and skates.

On March 29, 2025, Mr. Cline presented this topic at the Geological Society of America Joint 60th Annual Northeastern/59th Annual North-Central Section Meeting – 2025 in Erie, Pennsylvania. The abstract for the presentation is as follows:

CLINE, Daniel[1], SHELL, Ryan C.[2], CIAMPAGLIO, Charles N.[1], FUELLING, Lauren J.[1] and ALLEN, Random H.[1], (1) Science, Mathematics and Engineering, Wright State University, Lake Campus, Celina, OH 45822, (2) Vertebrate Paleontology, Cincinnati Museum Center, 1301 Western Ave, Cincinnati, OH 45203

The Tuttle Creek Lake Spillway near Manhattan, Kansas, exposes outcrops of the Red Eagle Formation that provide a detailed record of the Carboniferous-Permian boundary in North America. The Red Eagle is composed of the Carboniferous-Age Glenrock Limestone at the base, followed by the Permian-Age Bennett Shale, and capped by the Howe Limestone. Since marine vertebrate fossils have been recovered from both the Glenrock and Bennett members, this locality offers a rare opportunity to observe marine vertebrate faunal change across the Carboniferous-Permian boundary. From comparisons of separate formations across large stretches of geography and time, it is known that symmoriiform genera such as *Denaea* and *Stethacanthus* represent a significant portion of small to mid-sized predators in the early Permian. Large-bodied ctenacanthiform sharks such as *Glikmanius* emerged in the Carboniferous and persisted through the Permian as well. Finally, *Cooleyella* and other neoselachian fauna traverse not only the Carboniferous-Permian boundary, but the Neoselachii endure to become the dominant elasmobranch clade up through the present day. At the Tuttle Creek

locality, fossil remains of *Denaea* sp., *Stethacanthus* sp., *Glikmanius myachkovensis*, and *Cooleyella* sp. provide direct, observable evidence of these deduced biostratigraphic trends that propagated across the Carboniferous-Permian boundary and beyond.

Bio:

Dan Cline is a student in the PhD program in Environmental Sciences at Wright State University and teaches as an adjunct faculty member at WSU's Lake campus in Celina. Dan is a graduate of WSU's MS in Environmental Science Program.

A short list of Mr. Dan Cline's publications and presentations include:

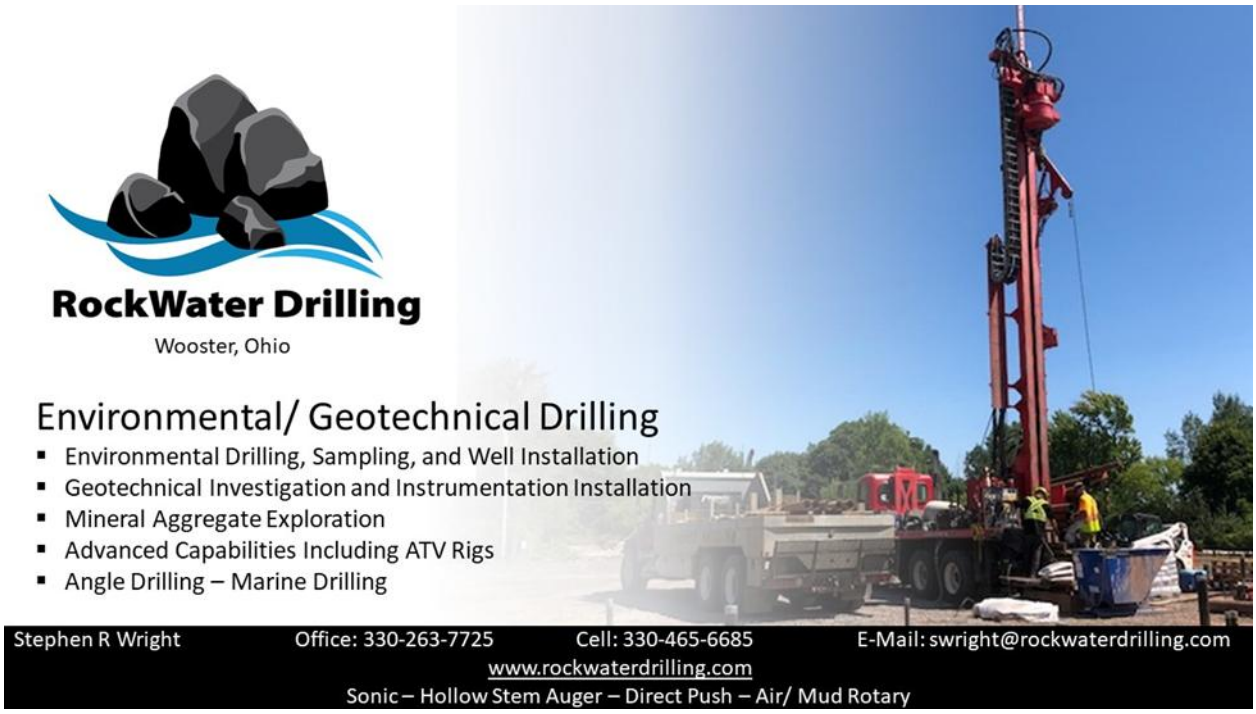
Heslerodoides (Chondrichthyes: Elasmobranchii: Ctenacanthiformes) from the Permian Red Eagle limestone of Kansas presented at the presented at the 12th North American Paleontological Convention (NAPC), University of Michigan, June 2024.

A preliminary report of a Lower Carboniferous (Mississippian: Tournaisian) chondrichthyan fauna from the "Blue Ridge Esker" locality (Marshall Formation) of Michigan, U.S.A. presented at the 12th North American Paleontological Convention (NAPC), University of Michigan, June 2024

A Description of the New Hybodont Shark Genus, *Columnaodus*, from the Burlington and Keokuk Limestones (Carboniferous, Mississippian, Osagean) of Illinois and Iowa, USA, MDPI Diversity, May 2024.

Lithology of an unusual limestone unit of the Glenshaw Formation from West Virginia, poster presented at The Ohio Academy of Science Annual Meeting, Kent State University, Kent, OH.

An Upper Carboniferous Estuarine Vertebrate Fauna from the Skelley Limestone (Conemaugh Group) of Ohio presented at Geological Society of America: North Central/South Central sectional meeting in April 2021.



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Photograph Submittal Guidelines

The Ohio Section welcomes and encourages members to submit photographs for the newsletter. We are looking for photographs with short captions that you think are interesting or showcase geology and geologists at work. Topics of interest include scenery, geologic disasters, interesting or historical geologic events, interesting work sites, and similar topics. Contributing photographers are requested to abide by the following guidelines to ensure civility and professionalism.

1. Submissions should include your name and membership number.

2. Title of the photograph and year the photograph was taken.

3. A brief description of the photograph.

4. Names of any identifiable persons in the image and permission to publish their photo. No minors please.

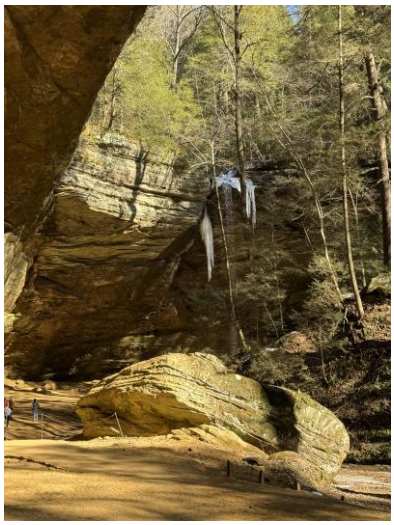
5. Please do not submit photographs with confidential or proprietary information.

6. The Ohio Section also welcomes and will consider relevant photographs 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 choose photographs published for space considerations.
Please send submittals to the editor at pchasco@nrmsolution.com or pdchasco@gmail.com.

Photograph submitted by Hugh Downer, CPG 11815. Photograph taken in February 2025. Hocking Hills State Park.

Photograph submitted by Hugh Downer, CPG 11815. Photograph taken in February 2025. Hocking Hills State Park.



Photograph submitted by Hugh Downer, CPG 11815. Photograph taken in February 2025. Hocking Hills State Park.

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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.

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.

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

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

5. 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 pchasco@nrmsolution.com or pdchasco@gmail.com.

I'm not just looking for letters to the editor, I'm also looking for your articles. As the Ohio Section Newsletter Editor, I am working to engage our members and looking for content that you think our members would enjoy. I cannot do this by myself and I am asking for your submissions. I am looking for student papers, abstracts, ongoing research, technical articles, case studies, guides. and, of course, letters to the Editor. While I am limiting the space for letters to the editor, articles can be longer.

The guidelines are pretty simple (see above). All submissions must be professional and must not violate the AIPG code of ethics. Submissions must not be copy right protected or previously submitted for publication elsewhere. We will not publish articles that are clearly marketing for a product or company.

Articles submitted from January 1 to March 15 will be published in the spring newsletter. Articles submitted from March 16 to July 31 will be published in the Summer newsletter. Articles submitted from August 1 to October 15 will be published in the fall newsletter. Finally, articles submitted on or after October 16 will be published in the winter newsletter. I look forward to reading and publishing your articles.

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