



# Ohio Section American Institute of Professional Geologists

Chartered 1965

November 2023 Newsletter

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## **AIPG Ohio Section Annual Meeting**

### **Thomas Jefferson's "Great-Claw" and the Birth of American Paleontology**

**Presenter:** **Dr. Loren Babcock, Professor of Earth Sciences  
and Director of the Orton Geological Museum at  
The Ohio State University**

**Date:** Thursday, November 16, 2023

**Location:** The Boat House at Confluence Park  
679 W. Spring Street  
Columbus, OH 43215

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

**Event Registration Payment:** <https://aipg-ohio.org/meetinginfo.php>

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## Message from the President

**Dave Follett, CPG- 12034**

Greetings AIPG Ohio Section Members, with the end of 2023 and the holidays fast approaching it is bittersweet to provide my final Message as the 2023 President of the AIPG Ohio Section.

Looking back at some of the Ohio Section's activities in 2023, we kicked off the year with our first quarterly meeting in February where members learned about the Hydrogeology of Flowing Artesian Wells in Northwest Ohio presented by Mr. Curtis Coe, with the Ohio Department of Natural Resources. The second quarterly meeting was held in April with a presentation by Dr. Mohammad Fakhari, structural geologist at the Ohio Department of Natural Resources, Division of Geological Survey. Dr. Fakhari presented on the Geology of Blendon Woods Metro Park and some of its Unique Stream Anticlines. To follow up the first two quarterly meetings, the Ohio Section held its Fifth Annual Golf Scramble at Chapel Hill Golf Course in Mt. Vernon, Ohio. This event continues to be a success for the Ohio Section which raised over \$2,400 this year to support our student chapters.

In mid-September, President-Elect Mike Friedhoff and I attended the AIPG National Conference in Covington, Kentucky as representatives of the Ohio Section. Also in attendance were several others from the Ohio Section that included Past-President Robert Andrews as a member of the National Advisory Board as well as Ohio Section Past-Presidents, Curtis Coe, Brent Smith, Brent Huntsmen, Matt Justice, and Colin Flaherty.

It was an honor to represent the Ohio Section and interact with the other State Sections which puts the entire AIPG organization in perspective as an enduring resource for geologists across the country. An article on this event can be found on page 7 of this newsletter. Next year's National Meeting will be held in Durango, Colorado in August.

In late September the Ohio Section held its Fall Meeting and Dinner Presentation at Wright State University in Dayton, Ohio. The event was a success and offered a diverse mix of professionals and students. The speaker was Dr. Mark Krekeler of Miami University who presented a talk entitled "Fall for Gold: New Adventures in an Ancient Resource". An article on this event can be found on page 4 of this newsletter.

I am happy to report, that throughout 2023, President-Elect Michael Friedhoff has been working diligently to assist with launching a new AIPG Student Chapter at Miami University. Michael's efforts are looking to pay off as Miami University Professor Dr. Mark Krekeler has gathered substantial student support making this Student Section a reality. The Ohio Section looks forward to potentially having a future quarterly meeting at Miami University.

Rounding out 2023, the Ohio Section has one last event for the year which is the Annual Meeting scheduled for November 16th at the Boat House at Confluence Park in Columbus. The Annual Meeting's featured speaker will be Dr. Loren Babcock, Professor of Earth Sciences and Director of the Orton Geological Museum at The Ohio State University presenting his talk, "Thomas Jefferson's "Great-Claw" and the Birth of American Paleontology". As in previous years, the meeting will include a 50/50 raffle to benefit the student chapters as well as door prizes. More details can be found on Page 11 of this newsletter.

It has been an honor to serve as your 2023 Ohio Section President. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me at [davidfollett353@gmail.com](mailto:davidfollett353@gmail.com)

Dave Follett, CPG- 12034  
2023 AIPG Ohio Section President

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# Ohio Section 2023 Fall Meeting Recap

*Feature Presentation:* **Fall for Gold: New Adventures in an Ancient Resource**

*Presented By:* **Dr. Mark Krekeler**  
Associate Professor of Geology at Miami University

By Paul Chasco, CPG-12024

The Ohio Section of AIPG was pleased to host Dr. Mark Krekeler, an associate professor at Miami University on September 28, 2023 at the Berry Room at Wright State’s Nutter Center in Dayton, Ohio. The event was sponsored by Alpha Analytical, ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services (ERIS), Industrial Environmental Monitoring Instruments, Ohio Soil Recycling, and K3 Complete. The event was hosted by the Wright State University student chapter of AIPG.



Dr. Krekeler discussing the Round Mountain Gold Mine

Prior to the buffet-style dinner being served, President Dave Follett (CPG-12034), addressed the attendees with welcoming remarks. Dave provided a introduction of the speaker, sponsors, and our hosts, the Wright State University student chapter of AIPG. Dave also provided a summary of the Ohio Section’s planned events for 2023 which included the Annual meeting in November.



Wright State University student chapter of AIPG.

Dr. Krekeler gave a presentation titled Fall for Gold: New Adventures in an Ancient Resource. Gold is an extremely valuable resource having extensive cultural and economic connections to humanity for thousands of years. Historically, gold has held a prominent position in the economic development of the United States and numerous other countries. In addition to jewelry, gold is viewed as a critical mineral resource globally due to its unique properties and new technologies being developed to exploit it. Dr. Krekeler’s fun fact was that 94% of gold is produced by the collision of neutron stars with the remainder produced when a star explodes.

Dr. Krekeler discussed the Round Mountain Gold Mine located in Nevada and the undergraduate and graduate research conducted on samples from the mine by Miami University students. Dr. Krekeler discussed the geology of the mine and how the gold is extracted from the rock, which only contains 1.2 parts per billion gold. The irony of the Round Mountain Gold Mine is the gold has been deposited on pyrite – fool's gold. Dr. Krekeler also discussed the future of the mine and the ultimate reclamation plans.

After providing an opportunity for Dr. Krekeler to answer questions, Section President Follett presented Dr. Krekeler with a decorative plaque adorned with the Ohio state fossil, *Isotelus*. Dave again thanked everyone in attendance, and especially our hosts, Wright State University student chapter of AIPG and the following sponsors of the event: Alpha Analytical, ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services (ERIS), Industrial Environmental Monitoring Instruments, Ohio Soil Recycling, and K3 Complete.



President Dave Follett presenting Dr. Krekeler with a plaque bearing the Ohio State fossil, the *Isotelus Maximus*, as a token of appreciation for speaking





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# 2023 AIPG National Meeting

By: **Dave Follett, CPG-12034**

This September, I was given the privilege as the 2023 President of the Executive Committee to represent the Ohio Section at AIPG's 60th Annual National Conference held at the Radisson Hotel in Covington, Kentucky.

## Day One

I began the Annual National Conference in the afternoon on September 16<sup>th</sup> where I was able to attend the National's Advisory Board meeting lead by AIPG's 2023 President-Elect Shanna



AIPG National Executive Committee Meeting. *Photo Credit: Wendy Davis*

Schmitt where state sections reported on their 2023 activities. As the AIPG Ohio Section's 2023 President, I reported on the Ohio Section's activities. At the conclusion of this meeting, delegates from each section elected four Advisory Board representatives for 2024. I am happy to announce that the Ohio Section's very own Robert Andrews was elected as the National's Secretary for 2024. The evening concluded with a Student/Early Career Professionals (ECP) speed networking event. The networking event was a great opportunity to discuss the geologic profession as a whole and to meet with groups of young professionals and students from the University of Kentucky, Western Michigan University and Michigan Tech just to name a few.

## Day Two

The second day of the conference (September 17<sup>th</sup>) was exciting as I was able to attend the Karst Geology of the Mitchell Plateau, in South Central Indiana Field Trip lead by Dr. Donny Lumm of the Kentucky Section and Craig McCammack of the Illinois-Indiana Section. South Central Indiana and in particular the Mitchell Plateau is underlain by middle-Mississippian Limestones with thin interbeds of siliciclastic sandstones and shales. Some of the unique Karst features of the Mitchell Plateau include disappearing streams, artesian springs, sink holes and of course caves. The most notable feature of this area includes the Lost River which is an 86-mile long meandering



Dr. Donny Lumm of the Kentucky Section discussing karst terrain in Syria, Indiana

stream where at least 23 miles of the primary course of stream flow is completely subterranean.



Orangeville (Lost River) Rise  
Orangeville, Indiana

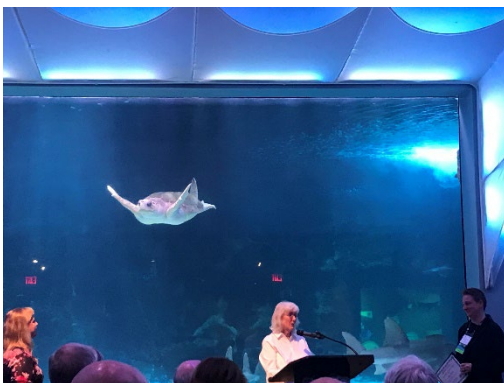
A unique feature observed included the Orangeville (Lost River) Rise, in Orangeville, Indiana. The feature included was a semi-circular rock wall composed of St. Genevieve Limestone just above the basal contact of the St. Louis Limestone. A water filled cavern within this contact yields an artesian stream that continues to flow southeast from this location. At another location, a classic example of a sinkhole was observed at the Wesely Chapel Gulf in Orleans, Indiana. At this location, the overlying bedrock, the Ste. Genevieve Limestone has collapsed and dissolved to yield a distinct alluvial floor.

The highlight of the field trip was a tour of Marengo Cave in Marengo, Indiana which is listed as a U.S Historic Landmark. The cave system is approximately 5-acres and is composed of the Ste. Genevieve Limestone which is capped with impermeable sandstone of the Paoli formation. The cave system was initially discovered in 1883 by 11- and 15-year-old brothers which yielded approximately 3,900 feet of passages. Through the years, subsequent discoveries within the cave system have extended the total of the initial discovery to 20,392 feet of cave passages.



Marengo Cave in Marengo, Indiana

### Day Three



Annual Awards Banquet held at the  
Newport Aquarium in Covington, KY

Day three (September 18th) of the conference began by attending the Section Delegate Meeting, a Panel Discussion on the State Geological Surveys for Ohio, Kentucky, and Indiana led by the State Geologists from each respective state. Following the Panel Discussion, I was able to attend the day's technical sessions. During the sessions, I attended several different presentations ranging from topics such as landslide stabilization, analytical methods for assessing PFAS impacts to surface and drinking water and a Gasoline Release Investigation in Karst Terrain associated with an airport expansion project. The day was concluded with the Annual Awards Banquet held at the Newport Aquarium where members throughout the nation were recognized

for their contribution to AIPG and the geologic profession as a whole. The Aquarium venue offered a memorable backdrop for the awards presentation.

### **Day Four**

Day four (September 19th) of the conference began by attending technical sessions along with attending Lunch with a presentation by the Keynote speaker, the Mayor of Covington, Kentucky. Following lunch, I was able to attend the day's technical sessions. Some of my favorite presentations of the day were put together by Ohio Section members Brent Smith (CPG- 11130) and Paul Chasco (CPG- 12024). The presentations were led off by Paul Chasco's presentation, "Hydrogeologic Characterization of a Potential Mining Site" which described a hydrogeologic investigation for a proposed sand and gravel pit located in Jackson County, Michigan. Paul outlined the use of slug tests to determine hydraulic conductivity and aquifer characteristics which were used to develop a hydrogeologic model with MODFLOW.

Brent Smith's presentation, "Brownfield Grant Case Study: Classic American Dry Cleaners", discussed a Brownfield Property located in Mingo Junction, Ohio. This former American Cleaners property was described as an old "Mom and Pop" dry cleaner that had operated from the 1950's to the 1990's. The Jefferson County Land Bank initially identified this property for demolition, however the previous use of this property as a dry cleaner located within a residential area and close proximity to the Village wellfield protection area, raised concerns. Through a USEPA Brownfield Assessment Grant secured by the Land Bank, a site investigation identified tetrachloroethene (PCE) in soil and groundwater. Due to the discovery of impacted soil and groundwater, additional funding through the State of Ohio grant program allowed for the additional characterization of the property and the installation of a remedial system on an adjacent property.

I would like to thank the AIPG Ohio Section for providing me the opportunity to attend the 2023 AIPG National meeting.



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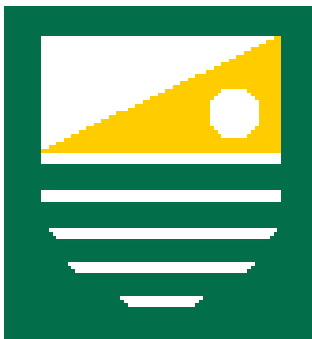
## Ohio Section 2023 Annual Meeting

*Feature*                    Thomas Jefferson's "Great-Claw"  
*Presentation:*        and the Birth of American Paleontology

*Presented By:*        Dr. Loren Babcock, Professor of Earth Sciences  
                                  and Director of the Orton Geological Museum at  
                                  The Ohio State University

The Ohio Section of AIPG is pleased to host Dr. Loren Babcock, at the Section's Annual Meeting presentation, which will take place Thursday, November 16, 2023 at The Boat House at Confluence Park, in Columbus. Dr Babcock will be presenting Thomas Jefferson's "Great-Claw" and the Birth of American Paleontology. This event is sponsored by Alpha Analytical, ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services, Industrial Environmental, K3 Complete, Terran Corporation, and Ohio Soil Recycling.

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 \$35 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>. Registration closes on at end of business on November 13, 2023.



# GEOCHEMICAL TESTING

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*Thomas Jefferson's "Great-Claw" and the Birth of American Paleontology*  
Dr. Mark Krekeler

**ABSTRACT**

In March 1797, at a meeting of the American Philosophical Society, Thomas Jefferson delivered the first oral paper on fossils in the United States. Published in 1799, the paper on a few bony remains included a description of the first genus of fossil animal, *Megalonyx* ("Great-Claw"), named from the USA. Together with an accompanying paper by Caspar Wistar, these papers mark the beginning of the science of paleontology in America.

The first substantial remains of the giant Quaternary ground sloth *Megalonyx* were unearthed on a farm in Holmes County, Ohio, in December 1890. The skeletal material was mounted, with reconstructed parts, for the Orton Geological Museum at The Ohio State University, in 1896. Today, it stands as the oldest surviving mount of a prehistoric vertebrate animal in America. This skeleton has appeared in numerous scientific papers and published media sources. In addition to being an important specimen scientifically, it is an impactful teaching and outreach tool. With its interesting backstory, its connection to the extraordinary personalities who shaped paleontology in its early years, and evidence for human predation on ground sloths, it is a compelling model for instruction and analysis. This skeleton is a centerpiece of "The *Megalonyx* Project," which explores connections between science, technology, and history, and blends the talents of paleontologists and archaeologists with instructional designers, digital technologists, graphic arts specialists, and classroom instructors. The project is promoting science education, history of science, and an understanding of the role of technology in deciphering the past, to students and future leaders in science, technology, digital arts, and human affairs.

**Bio:**

Loren Babcock is a Professor of Earth Sciences and Director of the Orton Geological Museum at The Ohio State University. He received his PhD in Geology from the University of Kansas. Prof. Babcock is the author of more than 300 scientific articles, and 13 books or multi-author volumes, including textbooks on Earth history and gemstones. His field work has extended to all seven continents. He is a former Chair of the International Subcommittee on Cambrian Stratigraphy and Voting Member of the International Commission on Stratigraphy, the UNESCO organization that has responsibility for refinement of the modern Geologic Time Scale. Prof. Babcock is a Fellow of the Geological Society of America and The Paleontological Society of America. He is recipient of numerous awards and medals including the Charles Schuchert Award for Excellence and Promise in Paleontology, awarded by The Paleontological Society.



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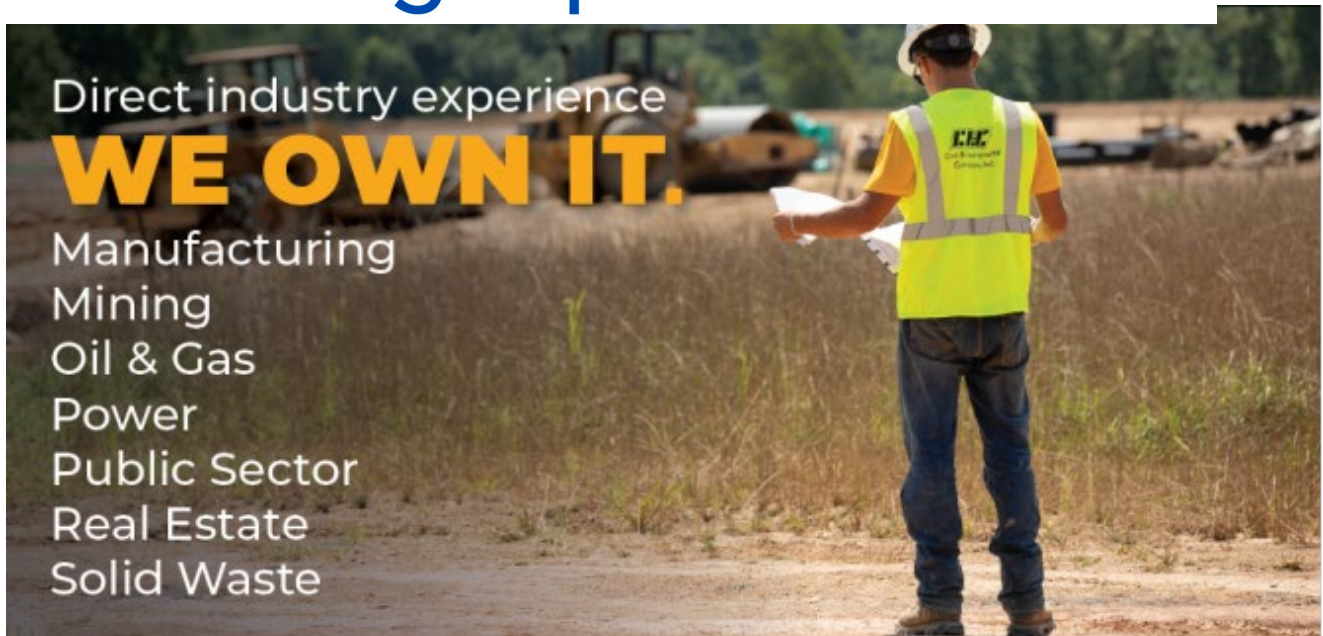
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### Letters to the Editor and Editorial Submittal Guidelines

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 [nnovak@eagoninc.com](mailto:nnovak@eagoninc.com).



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