



Ohio Section

American Institute of Professional Geologists

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September 2023 Newsletter

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AIPG Ohio Section Fall Meeting

Fall for Gold: New Adventures in an Ancient Resource

Presenter: Dr. Mark Krekeler, Associate Professor of Geology, Miami University

Date: Thursday, September 28, 2023

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

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>

See Page 14 for event details

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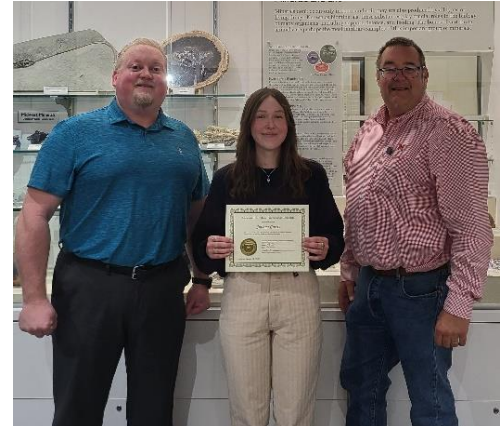


Message from the President

Dave Follett, CPG- 12034

Greetings AIPG Ohio Section Members, with the end of summer fast approaching I have a lot to report on some of the Section's activities.

The Ohio Section's President-Elect, Mike Friedhoff presented an AIPG National Undergraduate Student Scholarship to Juliana Curtis a graduating senior from Miami University of Ohio on May 3rd. Juliana was selected by AIPG's Education Committee based on her academic record, faculty recommendation, and the content and creativity of a required themed essay "Why I Want to be a Geologist." Mike was able to present an award of \$1,500 at the Miami University Karl E. Limper Geology Museum. Juliana's essay can be found in the July/August/September issue of AIPG's The Professional Geologist.



Juliana Curtis (center), Dr. Mark Krekeler (right), and Mike Friedhoff (left)

Once again, the Ohio Section held its 5th Annual Charity Golf Scramble at Chapel Hill Golf Course in Mt. Vernon on June 16th. This event continues to be a success for the Ohio Section and was well attended which raised over \$2,400 this year to support our student chapters. Over the past five years, this Charity Golf Scramble has raised over \$11,000 for Ohio Student chapters. An article on this event can be found on page 8 of this newsletter.

Now to upcoming events, I would like to provide a reminder that this year marks the AIPG National's 60th Annual Conference in Covington, Kentucky, September 15th through 19th. We're excited that members of the Ohio Section will be leading two field trips during the conference. The schedule of the conference can be found at <https://aipg.org/page/202360thAnniversaryConference>. Following the National Meeting, the Ohio Section will hold its Fall Quarterly Dinner Meeting at the Nutter Center of the campus of Wright State University on September 28th. The speaker is Dr. Mark Krekeler, Associate Professor of Geology at Miami University, who will be presenting Fall for Gold: New Adventures in an Ancient Resource. More details on this meeting can be found on page 14 of this newsletter.

I hope to see each of you at the upcoming AIPG National Conference in Covington, Kentucky and the next dinner meeting at Wright State University. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me at davidfollett353@gmail.com

Dave Follett, CPG- 12034
2023 AIPG Ohio Section President



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Ohio Section 2023 Spring Meeting Recap

Feature

Presentation: The Geology of Blendon Woods Metro Park and its Unique Stream Anticlines

Presented By: Dr. Mohammad Fakhari

By Nelson Novak, CPG-12102

The Ohio Section of AIPG was pleased to host Dr. Mohammad Fakhari, a structural geologist at the Ohio Department of Natural Resources, Division of Geological Survey, on April 25, 2023 at Smokehouse Brewing Company in Columbus Ohio. The event was sponsored by Alpha Analytical, ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services (ERIS) Ohio Soil Recycling, Industrial Environmental and K3 Complete. Prior to the buffet-style dinner being served, President Dave Follett (CPG-12034), addressed the attendees with welcoming remarks. Dave provided a summary of the Ohio Section's planned events for 2023 which included the 5th annual Charity Golf Scramble schedule for June and the upcoming National meeting in Cincinnati in September.



Section President Follett thanking the meeting's sponsors



Dr. Fakhari discussing the exposure of a stream anticline

Dr. Fakhari gave a presentation titled The Geology of Blendon Woods Metro Park and its Unique Stream Anticlines. Blendon Woods Metro Park is located in northeastern Columbus and much of the park is covered by alluvial deposits and glacial till sediments with late Devonian Ohio and Bedford Shales outcropping along the creeks.

Dr. Fakhari started off by displaying a geologic map of Blendon Woods Metro Park which is available at the park's nature center. The map not only shows the geologic topography of the park but also highlights where stream anticlines can be found throughout the park. Stream anticlines are the most impressive geologic feature in the park and are anticlines and synclines within the gray

Bedford shale.

The Bedford Shale overlies the Ohio Shale and is exposed in most of the park's creeks. The lower layers of the Bedford are composed of yellowish-gray, silty, clayey shale alternated with clayey siltstone beds. The middle layers, often described as the "red" Bedford, are red, silty, and clayey with less-defined bedding. The upper part of the Bedford is an alternation of grayish-yellow clayey shale and limited siltstone beds. The uppermost layers of the Bedford, exposed at the Ripple Rock Trail outcrop, are gray shale with more siltstone and some sandstone beds. Well-preserved ripple marks are noticeable on these sandstone layers.

Dr. Fakhari explained that there are more than 30 stream anticlines, synclines, and related thrust faults exposed in the park's creeks. Stream anticlines are small-scale surficial folds developed in shaley or clayey layers in the streams and riverbeds, in the scale of meters or yards. Analysis of the wavelengths, detachment depths, orientation of the folds' axes, and XRD analysis of the clay minerals indicate that they were formed by the increasing volume and lateral expansion of the clayey layers by water absorption in clay minerals. The orientation of the folds' axes are slightly affected by inherited tectonic paleostress. Dr. Fakhari stated that steam anticlines can be found within several areas of Ohio, but the quality and quantity of stream anticlines in Blendon Woods Metro Park is unique for Ohio.

Dr. Fakhari concluded his presentation and answered questions from the audience. As a repeated presenter, Section President Follett thanked Dr. Fakhari and presented him with an AIPG pen and pencil set. Dave again thanked everyone in attendance, and especially the following sponsors of the event: ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services (ERIS) Ohio Soil Recycling, Industrial Environmental and K3 Complete.



Section President Follett thanking Dr. Fakhari and presenting him with an AIPG pen and pencil set



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AIPG Ohio Section Fifth Annual Charity Golf Scramble

By: **Robert Andrews, CPG-11975**

On June 16th, the Ohio Section of AIPG hosted its 5th annual charity golf scramble to benefit the student chapters of the section. This year’s event was again held at the Chapel Hill Golf Course located in Mt. Vernon, OH. Thirty-seven golfers comprising 10 teams played the 18 holes of a course designed by Barry Serifin and ranked number 19 in Ohio for 2022 by NBC’s GolfPass. After registering for the 9 am tee time, each golfer was given a swag bag of golf balls and tees provided by White Oak Environmental. At the conclusion of the scramble, golfers were treated to a late lunch provided by Chapel Hill. Following the lunch, golfers participated in a raffle of donated items and each received a bottle of wine donated by Alpha Analytical Laboratories. This year’s event raised over \$2,400 for our student chapters.



AIPG Ohio Section Charity Golf Scramble

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DONATED ITEMS

<p>Raffle</p>        	<p>Wine</p>  <p>Swag Bags</p> 
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The Ohio Section appreciates the generosity of the following that supported this year’s event. Team Sponsors included Alpha Analytical Laboratories, Buckeye Elm Contracting, Civil & Environmental Consultants, K3 Complete, and Win Waste Innovations. Hole Sponsors included ERIS, Rockwater Drilling, SME, and U.S.T. Environmental Contractor. Lunch Sponsors include ERIS and Terracon. White Oak Environmental was an exhibitor and provided a swag bag for each golfer.

This year’s raffle items were donated by Alpha Analytical, BJ’s Wholesale Club, Buckeye Elm, Field & Stream, Chapel Hill Golf Course, PSARA Technologies, Rough Stone Rocks, U.S.T. Environmental Contractor, and Win Waste Innovations.

2023 AIPG Ohio Section Charity Golf Scramble Results

Team	Score
Team Buckeye Elm 2	60
Team U.S.T.	63
Team Freeman	64
Team Buckeye Elm 1	66
Team PSARA	69
Team CEC	70
Team Alpha	73
Team K3	73
Team Win Waste	74
Team Eagon	77



Wine Provided by Alpha Analytical

The first-place winner of this year's scramble was Team Buckeye Elm 2 with a score of 60. This team consisted of Mike Giggard, Brandon Markey, Colin Flaherty, and Rob Patridge.



Finishing second with a score of 63 was Team U.S.T with a score of 63. This team consisted of Gordon Fry, Dan Orvets, and Jon Burke.

Placing third at this year's event was Team Freeman with a score of 64. The team members were Nicholas Freeman, Alex Hart, and Joe Henley.



Team Buckeye Elm 1 (Dave Walker, Michael Akins, and Brue Markey) Follett) finished 4th with a score of 66.



Team PSARA (Dave Smith, Brian Smith, Michael Friedhoff, and Derek Shannon) finished with a score of 69.

Team CEC (Dave Follett, Andy McCorkle, Kim Magovac, and Brent Smith) finished with a score of 70.



Both Team Alpha and Team K3 finished with a score of 73, thirteen strokes behind the winning team. The players on Team Alpha were Steve, Grose, Ben Dressman, Doug Stuart, and Dave Mustafaga. Team K3 consisted of Joe Factor, Dan Adams, Randy Gabbert, and Chris Carpenter.



Placing ninth was Team Win Waste with a score of 74. The players on Team Win Waste were Anthony Liston, Brian Ezyk, Bill Foster, and Bryan Gill.

Placing last was Team Eagon with a score of 77. The players on Team Eagon were Shay Beanland, Tom Jenkins, Kelly Birkas, and Nelson Novak.



Dave Walker won our longest drive contest and Rob Patridge won our closet to pin contest.

An event like this could not have occurred without the support of our golf outing committee who consisted of Dave Follett, Nelson Novak, Robert Andrews, and Hugh Downer. Chapel Hill Golf Course staff were again incredibly helpful during the entire process and made everything run smoothly on the day of the event

Overall, the Ohio Section's fifth charity golf scramble was a rousing success and an enjoyable event for all who attended even though drizzled most of the morning. The Section appreciates of all participants who attended and the sponsors that contributed to the outing. The Executive Committee looks forward to using the over \$2,400 for our student chapters. Thanks again to all participants and sponsors. We look forward to seeing you again in 2024!







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Ohio Section 2023 Fall Meeting

Feature

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

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

The Ohio Section of AIPG is pleased to host Dr. Mark Krekeler at the Section's Winter Meeting presentation, which will take place Thursday, September 28, 2023 at The Berry Room at the Nutter Center, in Dayton. Dr. Krekeler will be presenting Fall for Gold: New Adventures in an Ancient Resource. This event is sponsored by Alpha Analytical, ALS Environmental, Buckeye Elm Contracting, Environmental Remediation Contractors, Environmental Risk Information Services, Industrial Environmental, K3 Complete, 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 \$10 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 September 25, 2023.



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*Fall for Gold: New Adventures in an Ancient Resource**Dr. Mark Krekeler***ABSTRACT**

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. Currently, gold is also viewed as a critical metal globally owing to its unique properties and the new technologies being developed that exploit it. In this talk we will explore various uses of gold technology as well as the modes of the geologic occurrence of gold. A discussion of the Round Mountain Gold Mine, one of the largest gold mines in North America, will be given as an example of a modern operation. Undergraduate and graduate student research on gold at Miami University will be highlighted, including a discussion of ongoing career development programs. Some new directions of geologic research will be outlined and a summary of the overall outlook of gold including environmental issues will be provided.

Bio:

Dr. Mark Krekeler is an associate professor at Miami University in the Department of Geology & Environmental Earth Science on the Oxford Campus and Mathematical and Physical Science on Miami University Regional Campuses. His research interests are broad in both environmental studies and industrial minerals. Dr. Krekeler specific research areas are applied industrial mineralogy for defense and intelligence applications, removal of pollutants, industrial mineralogy of consumer products, the mineralogy of gold, and geoenvironmental studies of both urban and rural settings. Dr. Krekeler has over 50 peer-reviewed publications and four U.S. patents and has advised over 150 undergraduates and over 15 graduate students.

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Calendar of Upcoming Events	
September 16-19, 2023	AIPG National Meeting - Covington, Kentucky
September 28, 2023	AIPG Ohio Section 2023 Fall Meeting - Nutter Center in Dayton, Ohio Speaker: Dr. Mark Krekeler
November 16, 2023	AIPG Ohio Section 2023 Annual Meeting Speaker: To be determined.



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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.



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