



Ohio Section

American Institute of Professional Geologists

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April 2024 Newsletter

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AIPG Ohio Section Spring Meeting

Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area

Presenter: **Dr. David Schmidt, recent past-Director of Undergraduate Programs in the Department of Earth and Environmental Sciences at Wright State University**

Date: Thursday, April 11, 2024

Location: Wright State University – 210 Student Union
Atlantis Room
3640 Colonel Glenn Highway
Dayton, OH 45435

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 10 for event details

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Message from the President

Mike Friedhoff, CPG - 11093

Greetings Fellow AIPG Ohio Section Members:

I'm excited to announce the upcoming Spring Quarterly Dinner Meeting on April 11th at Wright State University in Dayton. Dr. David Schmidt will be presenting *Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area*. Dr. Schmidt is the recent past-Director of Undergraduate Programs in the Department of Earth and Environmental Sciences at Wright State University. Please check out the abstract for his presentation on Page 9.

On the horizon in June is the 6th Annual Golf Scramble at Chapel Hill Golf Course in Mt. Vernon. We hope to continue the great success of the Golf Scramble in raising money for our student chapters. Please consider becoming a sponsor for the scramble or just join us and have a great day golfing.

Finally, I would like to remind everyone that this year's national convention will be in Durango, Colorado in the foothills of the San Juan Mountains. The theme of the conference is "Resources of the West", which is appropriate given that southwest Colorado includes oil and gas fields of the San Juan Basin, abundant base and precious metals mines, uranium deposits, coal deposits, and water resources. The conference has plans for multiple field trips, technical talks, and speakers and there are many exciting local attractions, including river rafting, hiking, horseback riding, fishing, and camping.

I hope to see each of you at our dinner meeting in April and our golf scramble in June. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me at m.friedhoff@gmail.com.

Michael J. Friedhoff, CPG-11093
2024 AIPG Ohio Section President



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AIPG Ohio Section 2024 Schedule

- April 11, 2024 Spring 2024 Meeting Wright State University
Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area by Dr. David Schmidt
- May 15, 2024 Executive Committee Meeting
- June 21, 2024 Ohio Section 6th Annual Golf Scramble
- August 10 - 13, 2024 AIPG 2024 National Conference in Durango, Colorado
- August 21, 2024 Executive Committee Meeting
- September 2024 Fall 2024 Meeting location and speaker to be determined
- October 23, 2024 Executive Committee Meeting
- November 2024 Ohio Section 2024 Annual Meeting location and speaker to be determined

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

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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Ohio Section 2024 Winter Meeting Recap

Feature Presentation: **Revisiting a CSM: Building a Better Model Based on the Larger Body of Work**
Teaching Groundwater at Otterbein University:
The 15 Year Evolution of the Otterbein Lake Well Field

Presented By: **Dr. Kevin Svitana, Professor in the Department of Biology and Earth Sciences at Otterbein University in Westerville, Ohio**

By Michael Giggard, MEM-3726

On February 22, 2024, the Ohio Section held its Winter Quarterly Meeting at the Boat House Event and Conference Center at Confluence Park in Columbus, Ohio. The event was well attended, with a nice crowd of members and their spouses. The evening began with a social hour featuring a cash bar.



2024 Winter Meeting



President Mike Friedhoff

Prior to the dinner being served, President Michael Friedhoff (CPG-11093), addressed the attendees with welcoming remarks and provided a summary of the Section's accomplishments during 2023. In addition, Michael recognized the generous contributions of our meeting sponsors Pace Analytical Services, ALS Environmental, Buckeye Elm Contracting, ERIS – Environmental Risk Information Services, Lightbox EDR, White Oak Environmental & Safety, and Ohio Soil Recycling.

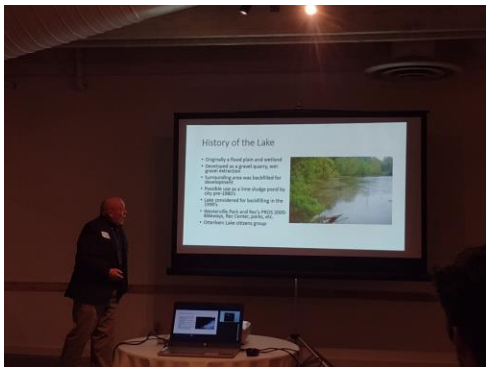
Being a Gold Level Sponsor of the event, Tamara Turcany with Pace Analytical provided remarks to the audience about the laboratory's capabilities.

At the conclusion of the meal, President Friedhoff introduced the evening's guest speaker, Dr. Kevin Svitana. Dr. Svitana serves as a Professor at Otterbein University's Department of Biology and Earth Science. Dr. Svitana had two presentations. The title of his first presentation was Revisiting a CSM – Building a Better Model Based on a Large Body of Work. Dr. Svitana began his presentation by discussing early typical early-career tasks and goals of a hydrogeologist, and the importance of closely monitoring ever-evolving sites. Take for example sanitary landfills in the early 1950's evolving into Superfund sites. Early on, there was no segregation of industrial wastes in sanitary landfills and plastics were not as prevalent as they are today. These sites transitioned under new regulations to isolate waste from groundwater sources, manage the generation of explosive gases, and allow for proper decomposition under post-closure care. Dr. Svitana offered a landfill in Pennsylvania as a case study. This landfill opened in 1960, accepted industrial waste, and was placed



Dr. Svitana presenting his first presentation

on the National Priorities List (NPL) in 1987. While the initial record of decision (ROD) dictated an impermeable cap for methane recovery and groundwater treatment, the ROD needed to be revisited in 1999 with better data. This data and improved remediation tactics allowed the site to be reevaluated and its conceptual site model revisited in 2020.



Dr. Svitana presenting his second presentation

Dr. Svitana’s second presentation was titled Teaching Groundwater at Otterbein University: The 15 Year Evolution of the Otterbein Lake Well Field. Dr. Svitana discussed Otterbein Lake in Westerville and what lessons can be learned from the hydrogeology studies that Svitana and his students have conducted over the years. Originally, the area was a floodplain and wetland before the city decided to fill the surrounding area for development. A new lake was designed featuring a littoral zone in which students could experiment by installing monitoring wells, sampling for groundwater quality and studying seasonal variability over the years.

After questions from the audience, President Friedhoff presented Dr. Svitana with a plaque bearing the Ohio State Fossil, the *Isotelus Maximus*, as a token of appreciation for speaking.



Dr. Svitana receiving the plaque with the plaque bearing the Ohio State Fossil,

Again, special thanks to Dr. Svitana, all members who attended, and the 2024 Executive Committee, for making this a fun and memorable event! Also special thanks to Pace Analytical Services, ALS Environmental, Buckeye Elm Contracting, ERIS – Environmental Risk Information Services, Lightbox EDR, White Oak Environmental & Safety, and Ohio Soil Recycling for sponsoring the event and continued support to the Ohio Section of AIPG.



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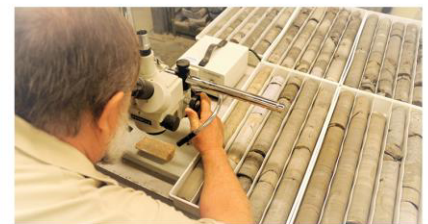
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Ohio Section 2024 Spring Meeting

Feature Presentation:	Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area
Presented By:	Dr. David Schmidt, recent past-Director of Undergraduate Programs in the Department of Earth and Environmental Sciences at Wright State University

The Ohio Section of AIPG is pleased to host Dr. David Schmidt, at the Section's Spring Meeting presentation, which will take place Thursday, April 11, 2024 at the Atlantis Room at Wright State University 210 Student Union located at 3640 Colonel Glenn Highway in Dayton. Dr Schmidt will be presenting Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area. This event is sponsored by ALS Environmental, Buckeye Elm Contracting, ERIS - Environmental Risk Information Services, K3 Complete, Lightbox, Ohio Soil Recycling, Pace Environmental Services, and White Oak Environmental & Safety.

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>.

Boulders, Bedrock, and Brewing Water: How Geology has Influenced the History of the Dayton Area
Dr. David Schmidt

SUMMARY

Please join us for a presentation about how the geologic resources of the Dayton area have influenced the region's history. We'll discuss how the "Dayton Limestone," an important component of the local bedrock, was well suited to architectural and engineering uses before concrete became widely available. We'll also trace the role of the DL&C Railroad in local quarrying history, the 1913 Flood, the glacial geology of this area, the significance of local ground and surface water, and how these geologic topics relate to some of the people, places, and things that are part of Dayton's history.

Bio:

David Schmidt is recent past-Director of Undergraduate Programs in the Department of Earth and Environmental Sciences at Wright State University. He is a lifelong resident of the south

Dayton area, where he grew up exploring the (then) undeveloped landscape and puzzling over its rocks and fossils. This interest in geology led David to complete his B.S. and M.S. at Wright State University and his Ph.D. at The Ohio State University, where his dissertation focused on the role microbial colonies had in the development of the Silurian System of Ohio and Indiana.

David is a research consultant with the Oakwood Historical Society and is writing a biography of John H. Patterson, founder and president of the National Cash Register Company.



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

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