



Ohio Section American Institute of Professional Geologists

Chartered 1965

April 2022 Newsletter

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AIPG Ohio Section Spring Meeting

Current Organization, Projects, and Research at the Ohio Geological Survey

**Presenter: D. Mark Jones, State Geologist and
Division Chief of Ohio Geological Survey**

Date: Thursday, April 21, 2022

Location: The Boat House at Confluence Park Restaurant &
Events Center, 679 W. Spring Street, Columbus, Ohio

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

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

See Page 8 for event details

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Message from the President

Robert E. Andrews, CPG-11975

Greetings Fellow AIPG Ohio Section Members,

As we continue to return to normalcy from the COVID pandemic, I am excited to announce that the Ohio Section will hold our Spring Quarterly Dinner Meeting in person April 21, 2022. Our speaker will be D. Mark Jones, Ohio's new State Geologist. He will be speaking on current research projects and organization of the Ohio Geological Survey. This meeting will be in Columbus at a new location, the Boat House at Confluence Park Restaurant and Events Center. More details on this meeting can be found on page 8 of this newsletter.

In addition, I am excited to announce that this year's charity golf scramble will be held on June 10, 2022 at a new location, the Chapel Hill Golf Course in Mt. Vernon, OH. With this new location, our start time will be at 9 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 Youngstown State University. Registration is now open. Details on this year's scramble event can be found on page 10 of this newsletter. Registration is now open. Those looking to be a sponsor for the scramble should contact our section Treasurer, Dave Follett, at treasurer.aipgohio@gmail.com.

Finally, I want to remind everyone that this year's National Meeting will be held in Marquette, MI on August 6 thru 9, 2022. The theme of this conference is *Geology: The Cornerstone of our Future*. National is still accepting abstracts for oral and poster presentation through May 9th. For those interested in presenting, more information can be found on page 11 of this newsletter.

Again, I am excited about the upcoming in person events Ohio Section has planned. I hope to see each of you at our dinner meeting next month and our scramble in June. If you have any questions or concerns about activities of the Ohio Section, please feel free to contact me at reandrews@earthlink.net.

Robert E. Andrews, CPG-11975
2022 AIPG Ohio Section President



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Ohio Section 2022 Winter Meeting Recap

Feature Presentation: Grand Lake St Marys Watershed Conservation

Presented By: Dr. Stephen Jacquemin

Contributed by Dave Follett, CPG-12034

The Ohio Section held its 2022 Winter Meeting and Dinner Presentation on the campus of Wright State University (WSU) in Dayton, Ohio on Tuesday, February 15, 2022. The event, which took place in the Berry Room at the Nutter Center, marked the first in-person meeting for the Ohio Section held at the WSU campus since the COVID-19 pandemic.

Dr. Stephen Jacquemin, who is a Professor of Biology at Wright State University's Lake Campus, was the featured presenter for the evening, delivering his presentation was entitled Grand Lake St Marys Watershed Conservation. The event was coordinated with the significant efforts of the WSU student chapter, led by President Paige Wilms under the guidance of advisor Dr. Stacey Hundley.

The evening began with a social hour featuring a cash bar. The WSU student chapter oversaw a 50/50 drawing, selling tickets throughout the social hour and dinner, with 50-percent of the collected money going to the drawing winner and the other 50-percent going to the student chapter.

Prior to the buffet style dinner being served, President Robert Andrews (CPG-11975), addressed the attendees with welcoming remarks. Robert then introduced the AIPG Ohio Section Executive Committee members who were in attendance and provided a summary of the Section's scheduled events for 2022 which included the 4th annual AIPG Ohio Section Golf Scramble and the upcoming 2022 National AIPG meeting held September 2022 in Marquette, Michigan. Additionally, Robert discussed the upcoming 2023 National AIPG meeting which will be held in the greater Cincinnati, Ohio area. The 2023 National AIPG meeting marks the 60th Anniversary of AIPG National Meetings.

Robert then recognized the generous contributions of our meeting sponsors, Alpha Analytical, ALS Laboratories, Buckeye Elm, Environmental Remediation Contractors (ERC), Ohio Soil Recycling, and White Oak Environmental.



Dr. Jacquemin providing background on the GLSM watershed

Ben Dressman with Alpha Analytical and Brandon Markey with Buckeye Elm both were given the opportunity to provide remarks.

Guests were then treated to a delicious dinner provided by the Nutter Center. At the conclusion of the dinner, Robert introduced the evening's guest speaker, Dr. Stephen Jacquemin.

Dr. Jacquemin's presentation addressed the Grand Lake St Marys (GLSM) watershed which has a long history of nutrient runoff and harmful algal blooms. Dr. Jacquemin outlined the history of GLSM which through the years has been impacted by intense animal and row crop agriculture within the watershed. In fact, the GLSM watershed was officially declared distressed in 2011 by the Ohio Department of Natural Resource (ODNR). Since 2011, substantial watershed efforts such as the adoption of best management practices (BMPs), regulations and conservation efforts have reduced nutrient runoff within the watershed.

Dr. Jacquemin laid out three separate conservation efforts that were prioritized for the watershed. The first priority involved nutrient management which related to how and when nutrients can be applied to crops. A watershed baseline was also established that took into account excess nutrients such as nitrogen and phosphorus which may run off into GLSM. Since 2011, conservation efforts are believed to have contributed to a drop in nutrient runoff within the watershed.



Dr. Jacquemin presenting to the audience

The second priority included reestablishing natural habitats such as wetlands within the watershed. Since 2012, hundreds of acres of wetlands have been reestablished contributing to nutrient remediation and biodiversity within GLSM. Historically, one-third of the watershed was covered by wetlands up until land development drained this area for agriculture. Unfortunately, heavy application of nutrients further degraded water quality within GLSM. However, restoration of littoral wetlands as well as constructed wetlands have contributed to the improvement of water quality within GLMS. In particular, Dr. Jacquemin touched upon

constructed wetlands along Cold Water and Prairie Creeks that are able to remove substantial volumes of nutrients from entering GLSM.

The third priority examined emerging technologies to aid in the mitigation of edge of field runoff. According to Dr. Jacquemin, the goal of these technologies are to create a saturated buffer, allowing a 25% reduction in flow from field tiles. This is accomplished by utilizing constructed flow-control mechanisms such as weirs and retention ponds. A benefit of constructing retention ponds is their ability to store water that can be re-used during periods of drought. After questions, President Andrews presented Dr. Jacquemin with a plaque bearing the Ohio State Fossil, the *Isotelus Maximus*, as a token of appreciation for speaking.



Robert presenting Dr. Jacquemin with a plaque bearing the Ohio State fossil, the *Isotelus Maximus*, as a token of appreciation for speaking.

The final festivities for the evening included the drawing of raffle tickets for prizes by the WSU student chapter.

Again, special thanks to Dr. Stephen Jacquemin, all members who attended, the 2022 Executive Committee, and the WSU Student Chapters for making this a fun and memorable event! Also special thanks to Alpha Analytical, ALS Laboratories, Buckeye Elm, Environmental Remediation Contractors (ERC), Ohio Soil Recycling, and White Oak Environmental for sponsoring the event and continued support to the Ohio Section of AIPG.



Members of the Wright State University Student Chapter in attendance.



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Ohio Section 2022 Spring Meeting

Feature

Presentation: Current Organization, Projects, and Research at the Ohio Geological Survey

Presented By: D. Mark Jones, State Geologist and Division Chief of Ohio Geological Survey

The Ohio Section of AIPG is pleased to host D. Mark Jones at the Section's Spring Meeting presentation, which will take place on Thursday, April 21, 2022 at The Boat House at Confluence Park Restaurant & Events Center in Columbus. Mr. Jones will be discussing the Current Organization, Projects, and Research at the Ohio Geological Survey. This event is sponsored by Alpha Analytical, ALS Laboratories, Buckeye Elm, Environmental Remediation Contractors (ERC), Ohio Soil Recycling, and White Oak Environmental.

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 \$20 for students. Please preregister and submit payment for the event via PayPal through the AIPG Ohio Section website <https://www.aipg-ohio.org/payment.php>. Registration closes at the end of business on April 15, 2022.

Bio: D. Mark Jones was born in Cleveland, Ohio and studied geologist at Cleveland State and Kent State Universities, graduating from KSU with a MS in Geology in 2000. Mark worked for several years in Columbus in environmental consulting, before joining the Ohio Geological Survey in 2008, where he interned from 1996 to 1999. Mark was the Lake Erie coastal geologists and also co-authored several Quaternary maps before becoming the supervisor of the Survey's H. R. Collins Laboratory in 2013. In 2021 he replaced Mike Angle as Geologic Survey Chief and State Geologist.

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AIPG Ohio Section 4th Annual Charity Golf Scramble

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

18-HOLE GOLF SCRAMBLE

Friday, June 10, 2022

Chapel Hill Golf Course

7516 Johnstown Road, Mt. Vernon, OH

www.chapelhillgolfcourse.com

9:00 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. Proceed will go to support our Ohio-based AIPG Student Chapters!

Registration:

Early Bird – \$80/golfer

After May 13 – \$90/golfer

Registration
closes on
June 3rd!!

On-Line At: www.aipg-ohio.org/eventdetails.php

The event will feature Prizes for
1st, 2nd, and 3rd place, longest drive, and closest to pin.

Don't miss the raffle!

Sponsorship Opportunities:

Lunch Sponsor	\$75	(Company logo recognition at lunch; mention during awards)
Hole Sponsor	\$125	(Sign at golf hole; mention during awards)
Team Sponsor	\$450	(Registration of 4 golfers; hole sponsorship)
Exhibit Sponsor	\$150	(Exhibit booth at check in and lunch area)
Awards/Raffle Sponsor	\$100	(Monetary donation towards golf awards and raffle items)

*All sponsors have opportunity to provide golf swag items to participants.

Please e-mail treasurer.aipgohio@gmail.com for Sponsorship Application or questions



**Geology:
The Cornerstone
of our Future**

August 6-9 | Marquette, MI

AIPG 2022 National Conference

Call for Abstracts

AIPG is currently accepting abstracts for oral presentations and poster presentations for the 59th American Institute of Professional Geologists' National Conference that will be held in Marquette, Michigan, on the beautiful shores of the world's largest freshwater lake.

This year's meeting theme is "Geology: The Cornerstone of our Future". Geology plays a significant role in today's society and will become ever more important in the years to come. Our reliance on basic resources and building materials such as sand and gravel for roads, limestone for concrete, iron for structural purposes, and other base metals for electronics and other applications will not diminish; rather, it will become a greater concern as existing deposits are depleted or rendered inaccessible.

The ever-increasing number of applications of rare earth elements has created a greater demand on extraction and several of these elements will be needed in ever greater quantities to assist in the transition to a reduced carbon emission future. Geologists will be needed to identify, quantify, and yes, help with extraction of these mineral deposits.

A reliable source of clean freshwater is a basic necessity for life, and the onset of climate change is impacting these resources. Changing climate patterns mean that widespread areas may become stricken with drought. This will mean that significant depletion of groundwater aquifers and surface water reservoirs will occur in these areas as withdrawals exceed natural replenishment. This is already affecting agricultural practices and driving migration of human populations to areas where this precious resource may be found, resulting in conflict and/or political unrest. In addition, anthropogenic activities have contaminated some water resources and have made these resources locally unusable or require expensive treatment.

The national conference provides opportunities to present and learn from experts in various geology and geoscience fields, with networking opportunities throughout the conference. Earn CEUs too!

Student Poster Contest

Students can submit an abstract for a poster presentation and enter the poster contest to win cash prizes! The two categories and prizes for poster contest are:

Undergraduate Cash Prize - 1st Place: \$500, 2nd Place: \$200, 3rd Place: \$100

Graduate Cash Prize - 1st Place: \$600, 2nd Place: \$250, 3rd Place: \$100


Deadline May 9, 2022

More information on submitting an abstract or participating in the poster contest can be found at:


<https://aipg.org/page/2022CallforAbstracts>




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Calendar of Upcoming Events	
April 21, 2022	AIPG Ohio Section Spring Meeting at The Boat House Restaurant & Events Center, Columbus Speaker: D. Mark Jones, State Geologist and Division Chief of Ohio Geological Survey
June 10, 2022	4 th Annual AIPG Ohio Section Charity Golf Scramble Chapel Hill Golf Course, Mt. Vernon, OH
August 6-9, 2022	AIPG National Meeting, Marquette, Michigan
September 15, 2022	AIPG Ohio Section 2021 Fall Meeting and Dinner Presentation – Northeast, Ohio -- Speaker: To be determined
November 17, 2022	AIPG Ohio Section 2022 Annual Meeting – Speaker: To be determined.

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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.

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