



Hudson - Mohawk Professional Geologists Association

JANUARY MEETING

www.hmpga.net

With the
Eastern New York Chapter of the A&WMA

January 18, 2023



AIR & WASTE MANAGEMENT
ASSOCIATION

SINCE 1907

Analytical Challenges to New PFAS Methodologies and Panel Discussion with



**Speakers: Lindsay Boone, PACE Analytical and
Dana Barbarossa, Section Chief, NYSDEC**

This course is approved for 1 PDH

Abstract: The EPA has been consistently updating regulations both proposed and enforceable on PFAS in a wide array of sample matrices. Of note, the EPA announced a proposed rule to designate Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)—also known as Superfund. The EPA has also added 29 PFAS to the Unregulated Contaminant Monitoring Rule which will begin in 2023 and impact our Nation's drinking water systems.

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J A N U A R Y M E E T I N G

Abstract: (cont'd) Therefore, it is of the upmost importance for environmental professionals to understand the most up to date PFAS methods available to utilize at their project sites. We will cover both speciated PFAS methods such as EPA 1633 and Total Oxidizable Precursor Assay (TOPS) and non-speciated organic fluorine methods (TOF, AOF, EOF, TF). This presentation will aid in analytical decision making at PFAS impacted sites for cost efficiency and time management.

About the Presenters:

Lindsay Boone is a Technical Specialist with PACE Analytical. Her primary focus for the past several years has been on PFAS. She has worked with numerous drinking water and wastewater professionals on a wide array of PFAS related issues such as sampling techniques, lab report interpretation, and analytical methodology selection. Lindsay has worked at various environmental laboratories, life sciences, and analytical instrumentation manufacturer companies. She earned both her BS and MS degrees in chemistry at University of North Carolina Wilmington. In her free time she enjoys boating and hanging out on the beach with her friends, family, and Great Dane "Bo".

Dana Barbarossa is a Chemist 3 and Section Chief of the Training and Technical Support Section of the Division of Environmental Remediation at the NYSDEC where she oversees the quality of the sampling and analytical program as the Division Quality Assurance Officer and also oversees technical staff that supports the Division. From 2004-2010, Ms. Barbarossa was an analytical chemist with NYSDEC responsible for forensic pesticide analysis. Ms. Barbarossa previously worked as an analytical chemist for Northeast Analytical from 2001-2004. Ms. Barbarossa was responsible for managing the Volatile Organic Analysis lab as well as extraction and analysis of various other organic contaminants. Ms. Barbarossa received a Bachelor of Science degree in chemistry from SUNY College of Environmental Science and Forestry in 2001.

Reservations are required by Monday

January 16, 2023



Meeting
Sponsorship
Available

Whether attending the dinner or only the in-person presentation

Register on-line at www.hmpga.net

Questions? Call or email Jonathan Dippert at (518) 786-7563 • j.dippert@ctmale.com

Cost: \$10.00 for student members*

\$25.00 for dormant geologists

\$30.00 for members

\$35.00 for non-members

In-person program only: Free

+PDH certificate available for: \$5.00 (member w/ dinner) •

\$10.00 (member for program only) • \$20 (non-member)

* Student dinner sponsorship available for qualifying students - contact Jonathan Dippert • j.dippert@ctmale.com

Location: Century House
997 New Loudon Road
Latham, NY 12110

Time: Social Hour 5:00pm
Dinner 6:00pm
Program 7:00pm

Sponsorship is available for this meeting! Dinner sponsors receive free dinner, a display table set up for the social hour and a 5-minute presentation to the dinner audience, prior to the presentation. Please contact Jonathan Dippert at j.dippert@ctmale.com for more information.

President's Message

Dear HMPGA Members,

Happy New Year! If you haven't already done so, please see the information on the upcoming January meeting. HMPGA will be hosting a joint meeting with the Air & Waste Management Association, Eastern New York Chapter. This joint meeting will take place at the same time and same place as our typical monthly meeting. We're excited for the panel discussion on the new PFAS methodologies.

During the Spring session, the HMPGA Board of Directors will be positioning ourselves for the 2023-2024 season. As part of this, the nominations committee is actively looking for interested persons to join the board of directors and the various committees (nominations, communications, membership, social media, program, webmaster, and newsletter). Please remember that you do not need to be a board member to join the committees. Please reach out to any current HMPGA Board members for additional information.

HMPGA is always looking for new and interesting speakers and presentations to fill next year's calendar. Are you or someone in your office working on an interesting project? Preparing of an upcoming national/regional conference? Please reach out to our Program Chair – Jonathon Dippert j.dippert@ctmale.com if you would like to present at an upcoming HMPGA monthly meeting.

Thank you,

Brian Taylor, P.G.

President 2022-2023

Volunteer Opportunities

Your opportunities here.

EVENTS

January HMPGA Meeting 1/16.

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- ❖ Water Types/Hydrochemical Facies Evaluation
- ❖ Graphical Data Analysis/Mapping
- ❖ Geochemical Calculations/Modeling
- ❖ Statistical Analysis

Looking back at the 2022 eruption that shook the world

European Space Agency - January 16, 2023

One year ago, the Hunga Tonga-Hunga Ha'apai volcano erupted, causing widespread destruction to the Pacific Island Nation of Tonga, spewing volcanic material up to 58 km into the atmosphere. It brought a nearly 15 m tsunami that crashed ashore, destroying villages, and creating a sonic boom that rippled around the world—twice.

Satellites orbiting Earth scrambled to capture images and data of the aftermath of the disaster.

<https://phys.org/news/2023-01-eruption-shook-world.html>



Satellite imagery of the Tonga-Hunga Ha'apai volcano eruption.



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A large, brown drilling rig is positioned in a field of vibrant yellow sunflowers. The rig is tall and complex, with various mechanical components and a vertical mast. A person wearing a white hard hat is visible near the base of the rig, providing a sense of scale. The background shows a line of green trees under a clear sky.

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JANUARY'S GEO-CRYPTOQUOTE

CLUE: D = K

(Note: Puzzle is a quotation related to geology. Each letter of the quotation is substituted by another letter.)

“MSH SVBNO XQE PQWCCU FSXOHZ BM CSDO SNSCSJPO, SX SJ
OCONSXBWBJ BM 4,293 MOOX, WZ ZGAAWX FSXOH, S AWJGXO,
GJKHOXOJRWJY XOSH BM XQE PCBGRZ” – NOHKCSJD PBCNWJ

DECEMBER'S GEO-CRYPTOCIPHER SOLUTION

“EARTH PROVIDES ENOUGH TO SATISFY EVERY MAN'S NEEDS, BUT NOT EVERY MAN'S GREED” –
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2650 East 40th Avenue
Denver, Colorado 80205
1-800-833-7958
Phone 303-320-4764
FAX 303-322-7242
www.geotechenv.com

Title: Environmental Geologist / Hydrogeologist

Company: C.T. Male Associates

Location: Latham or Poughkeepsie, NY

Brief Description: C.T. Male Associates, a multi-discipline consulting firm in the Northeast, is seeking a driven and hands-on Environmental Geologist / Hydrogeologist to join our Latham or Poughkeepsie, NY team. This full-time position offers a complete benefits package (including comprehensive health insurance, 401(k) plan, bonus program, educational assistance/professional development programs, company-paid life insurance, and much more), and a variety of exciting projects across disciplines with technical and managerial growth opportunities that provide the experience necessary to obtain/maintain your professional registration. The successful candidate has strong technical abilities, and excellent organizational and communication skills.

Links: Latham - <https://www.applicantpro.com/openings/ctmale/jobs/2636228-40142>

Poughkeepsie - <https://www.applicantpro.com/openings/ctmale/jobs/2637929-40142>

Title: Geologist / Hydrogeologist

Company: Alpha Geoscience

Location: Clifton Park, NY

Brief Description: Alpha Geoscience, a geological consulting firm in upstate New York, is seeking a geologist with 2-5 years of experience, with a Bachelor of Science Degree, or higher, in Geology. Experience or educational background in stratigraphy, structural geology, hydrogeology, petrology, and geological field methods is required. A detail-oriented individual with interest or experience in rock core logging and familiarity with drilling oversight is preferred. Candidate is expected to conduct field and office work related to mining, water supply, and environmental projects. Travel is required, as needed, to support project assignments. This is a full-time position and includes a complete benefits package including health insurance, 401(k) plan, and bonus program.

Link to Posting: <https://www.alphageoscience.com/about-us/career-opportunities/>

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Scott Hulseapple, PG
shulseapple@alphageoscience.com

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HMPGA PROGRAM DIRECTORS

Being active in HMPGA is a fully volunteer activity that often demands a great deal of attention.
The following members chair this year's committees and we thank them:

| | | |
|----------------------|------------------|--|
| Webmaster | Evan Rafferty | erafferty@alphageoscience.com |
| Newsletter | Josh Gowan | jgowan@alphageoscience.com |
| Educational Outreach | Joe Osso | Joseph.Osso@nyserda.ny.gov |
| Programs | Jonathan Dippert | J.Dippert@ctmale.com |
| Membership | Vacant | |

HMPGA CALENDAR

| DATE | SPEAKER | TOPIC |
|-------------------|---|---|
| January 18, 2023 | Lindsay Boone (PACE), Dana Barbarossa (NYSDEC) | Analytical Challenges to New PFAS Methodologies and Panel Discussion with NYSDEC and PACE Analytical |
| February 15, 2023 | TBA | Annual Donald Cadwell Memorial Lecture |

OTHER EVENTS:

Watch our website (<http://www.hmpga.wildapricot.org/>), Facebook, and LinkedIn for announcements of future events!



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Corporate Member Contacts 2022 - 2023

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| Continental Placer | Bill Miller | 518.458.9203 |
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Eastern New York (ENY) Chapter of the Air & Waste Management Association (MASS-A&WMA). They encompass the greater Capital District and Hudson Valley region of eastern New York State. A professional non-for-profit association of engineers and scientists working in the environmental field, with a particular focus on issues related to air and waste. www.awmanenychapter.wildMAYicot.org



The Geological Society of America (GSA) strives to be a leader in advancing the geosciences, while enhancing the professional growth of its members, and promoting the geosciences in the service of humankind. www.geosociety.org



The New York State Museum is a major research and educational institution. It is dedicated to promoting inquiry and advancing knowledge in the fields of geology, biology, anthropology, and history, through the investigation of material evidence germane to New York State's past, present and future. www.nysm.nysed.gov



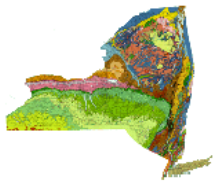
New York State Council of Professional Geologists (NYSCPG) strives to strengthen and advance the geologic sciences as a profession, promote the protection of public health and welfare and the environment through the professional practice of geologic sciences, and create high standards of ethical conduct among its members and within the profession of geology, as well as the legal standing of geologists and their ability to practice geology in New York State by promoting the licensing of geologists in New York State through statutory regulation. www.nyscpge.org

Environmental Breakfast Club

The Capital District Environmental Breakfast Club is an informal group of environmental professionals that meets monthly to discuss current environmental issues. Each meeting features a speaker on a topic of interest, a regulatory update, and an open forum. Meetings are held on the first Friday of each month except July and August. The Environmental Breakfast Club meets at the Holiday Inn Turf on Wolf Road in Colonie, New York. Meetings start at 7:30 am. The cost is \$15 per person, which includes a full breakfast buffet. www.youngsommer.com



Buffalo Association of Professional Geologists (BAPG) conducts regular membership meetings on the third Wednesday of the month, January through June and September through November. Meetings feature distinguished speakers and interesting topics. Field trips and technical seminars sponsored by the BAPG encourage the exchange of scholarship and expertise. www.bapg.org



Central NY Association of Professional Geologists (CNYAPG) conducts regular meetings on the second Thursday of each month, unless otherwise posted, from September to May. Meetings feature dinner and distinguished speakers whose presentations invite comment and discussion. www.cnyapg.org



Long Island Association of Professional Geologists (LIAPG) is a not-for-profit professional organization dedicated to the professional and business needs of geologists located in the Long Island / Metro New York area. www.lipg.org