



Hudson - Mohawk Professional Geologists Association

A P R I L M E E T I N G

www.hmpga.net

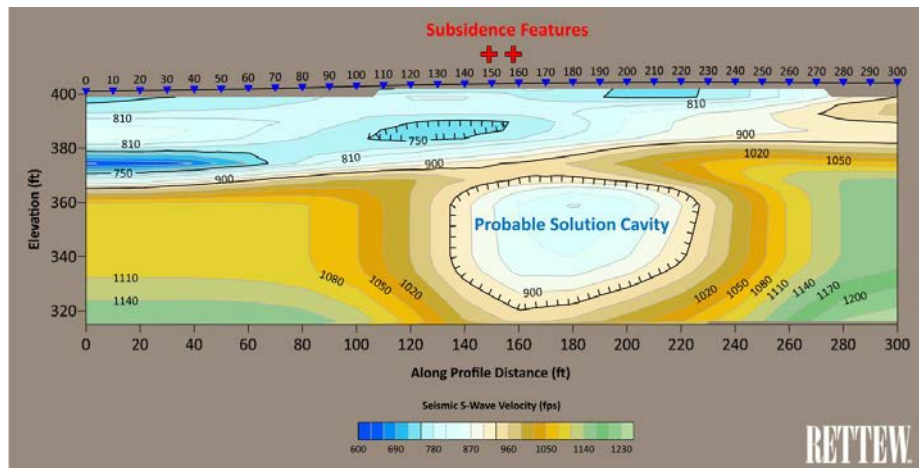
With the

American Institute of Professional
Geologists - Northeast Section



April 19, 2023

**Geophysics and Subsurface Utility Engineering (SUE) How to
Find, Map, and Manage
What You Want to Hit or Miss Before
Digging, Drilling, Or Building**



**Speaker: Felicia Bechtel, MSc, PG
RETTEW Field Services, Inc.**

This course is approved for 1 PDH

Abstract: Geophysics and Subsurface Utility Engineering (SUE) - How to Find, Map, and Manage What You Want to Hit or Miss Before Digging, Drilling, Or Building" will introduce the applied science of geophysics as it relates to the engineering, environmental, and energy markets. Concepts regarding why, when, where, and how to incorporate geophysics into projects will be covered, along with an outline of geophysical techniques and applications. Numerous case histories will be presented to showcase the myriad ways in which geophysics can be cost-effectively applied to project design, development, construction, excavation, or remediation.

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About the Presenter: Felicia Kegel Bechtel is the Senior Geophysical Advisor and Special Projects Lead for the Environmental and Geotechnology Practice at RETTEW Field Services, Inc. Felicia's primary focus is currently on business development and client connection for Geophysics and all of RETTEW. She also provides support, mentorship, and technical proposal preparation and project review for RETTEW's Geophysics Team. In addition, she is the co-chair of RETTEW's Diversity, Equity, and Inclusion (DEI) Team.

Felicia celebrates 30+ years of experience in surface, marine, and borehole geophysics consulting. Her engineering, environmental and archaeological geophysics expertise has been applied to work in the local, state, federal, commercial, and industrial markets.

From 2018 to 2022, Felicia served as RETTEW's Director of Geophysics, which uses seismic, microgravity, electromagnetic, magnetic, borehole logging, resistivity, and ground penetrating radar surveys (among other techniques) applied to dam structural integrity, washout and leak detection, sinkhole and fracture mapping, bedrock depth profiling, tank and drum detection, contaminant plume delineation, seismic site classification, and other engineering- and environmental-related projects. As President of Enviroscan, Inc. for 25 years prior to joining RETTEW in 2018, Felicia conducted geophysics technical reviews and managed logistics of projects requiring scheduling and mobilization of multiple field crews using a variety of geophysical equipment systems.

American Institute of Professional Geologists – Northeast Section Field Trip to Palette Stone Quarry 1pm to 3pm

The NEAIPG is hosting a field trip to the Palette Stone Quarry in Saratoga Springs, NY. Space is limited to 20 participants. We will be meeting at the Hannaford Plaza on Trieble Avenue promptly at 1pm and carpooling due to limited parking at the quarry. Please register on-line at www.hmpga.net, if you would like to sign up to attend the field trip. See attached flyer for more information.

You must register for **both** the dinner and the field trip to attend the two events.

Student Poster Exposition

HMPGA, in collaboration with NEAIPG, is hosting the 5th Student Exposition, after a 3 year hiatus in the annual event. The Exposition is **FREE** to presenting students and includes dinner. Contact Kelly Weyer (NEAIPG) at kweyer@cg-env.net or Jonathan Dippert (HMPGA) at J.Dippert@ctmale.com if you are interested in presenting a poster. Geosciences faculty members are encouraged to attend this event. See attached flyer for more information.

Reservations are required by Monday April 17, 2023

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: Field Trip – FREE (see information above)

\$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/Poster 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 Spring! Thank you to Dr. Jack Ridge of Tufts University for giving his lecture during our March meeting.

April marks the return of the Annual Student Exposition – after a brief hiatus. This event will take place during April's social hour and is a wonderful opportunity for students to present their research and make connections in the industry - who may be looking for employment in the area! Regular dinner and lecture to follow. See the meeting flyer for more information.

HMPGA received four applications for the Annual 2023 Field Camp Scholarship. The most applications ever received! The scholarship committee is reviewing the qualifications of these excellent candidates and looks forward to awarding the scholarship.

The Cave House Museum of Mining & Geology will again be holding field trips for local schools. As in the past HMPGA provides volunteers to assist with these field trips. Upcoming trips include May 17, 18, 25 and 26. Please contact Joe Osso or Elizabeth Moore for additional information about volunteering. A volunteer training course will be held May 13.

Keep on eye out for information regarding our summer event, to occur in June. While still in the planning stages it is expected to include a field trip and the opportunity to secure a NY PDH credit.

Thank you and I look forward to seeing you all this month's meeting,

Brian Taylor, P.G.

President 2022-2023

Volunteer Opportunities

Your opportunities here.

EVENTS

April HMPGA Meeting 4/19:
Joint meeting with NEAIPG, Student Poster
Session

May HMPGA Meeting 5/17:
Century House

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Volcanic Ash: A volcanic hazard that is often underestimated in its geographic reach and impact.

Geology.com, Hobart M. King, PhD, RPG, April, 2023

Dr. King explores various details surrounding this very significant hazard associated with volcanic eruptions.

See more here:

<https://geology.com/articles/volcanic-ash.shtml>



Volcanic ash plume from Cleveland Volcano, located on Chuginadak Island in the Aleutian Island Chain off Alaska. NASA image taken by Jeff Williams, Flight Engineer, from the International Space Station.



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A P R I L ' S G E O - C R Y P T O Q U O T E

CLUES: J = V, E = K

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

“Y TSQE CYU OS BNZNQZYRXN SHFOFSO

YRSPZ LTYJFZK”

-ZNTTK HTYZQCNZZ

MARCH'S GEO-CRYPTOCIPHER SOLUTION

“GEOLOGISTS HAVE A SAYING – ROCKS REMEMBER” - NEIL ARMSTRONG

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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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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
April 19, 2023	Felicia Bechtel, RETTEW	TBA - Additionally, the student poster session returns!
May 17, 2023	TBD	TBD
June, 2023	HMPGA Summer Event	TBD

OTHER EVENTS:

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



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Sterling Environmental Engineering, P.C.	Andrew Millspaugh	518.456.4900
Stewarts Shops	Tim Johncox	518.488.8647



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



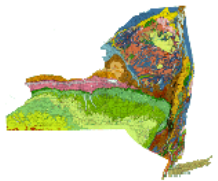
New York State Council of Professional Geologists (NYSCPG) strives to strengthen and advance the geologic sciences as a profession, promote the protection of public health and welfare and the environment through the professional practice of geologic sciences, and create high standards of ethical conduct 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