

Hudson – Mohawk Professional Geologists Association

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

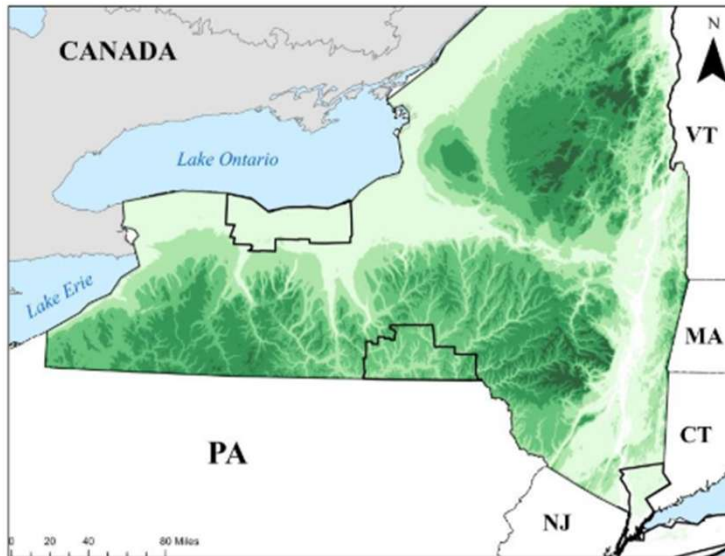
www.hmpga.net

With the

**American Institute of Professional
Geologists - Northeast Section**

April 15, 2026

**Hydrogeophysical Tools and Data for Geothermal
Resource Mapping and Site Characterization**



**Speaker: John H. Williams
U. S. Geological Survey**

This course is pending approval for 1 PDH +

Student Expo & Professional/Career Networking

Philly Bar and Lounge

Students from across the Northeast will be presenting their research through posters and environmental firms from the Northeast will be exhibiting at booths.

April 15, 2026 – 5:00 pm to 6:00 pm

Exhibit booths available during expo and networking event for a sponsorship fee.

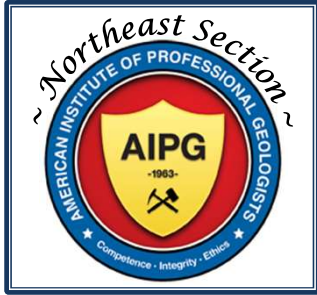
E-mail Jonathan Dippert at j.dippert@ctmale.com if interested.

Attention All Students! Still Time to Submit!

CALL FOR STUDENT PRESENTERS

Accepting abstracts through April 10, 2025.

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.



FIELD TRIP

STUDENT
POSTER
EXPOSITION

H M P G A
&
N E - A I P G

American Institute of Professional Geologists – Northeast Section

Field Trip

Steamboat Square – Phases 1 & 2

Equitable Electrification of Public and Affordable Housing

Presented by:

John Ciovacco, CGD, CGI and Chris Winckler, IGSHPA AI,
Aztech Geothermal

April 15, 2026 – 1:45 pm to 3:15 pm; **Arrival at 1:30pm**

Specific day-of details will be shared with those that registered.

Registration deadlines are Friday, April 10.

PDHs are pending for this event.

Cost is \$20 for the PDH. Tour-only is Free.

About the Speaker (Dinner):

John H. Williams is a groundwater and borehole-geophysical specialist with the U. S.G.S. He has a BA in Geology from Colgate University, and an MS in Geosciences from Pennsylvania State University. Since joining the Survey in 1980, John has applied borehole geophysical methods to a wide range of groundwater investigations in cooperation with the various government agencies. He has taught regional and national courses on borehole geophysics for the Survey and its partners, and international workshops for government water agencies in the United Arab Emirates, Iraq, Kurdistan, and India. John's research interests include the application of borehole geophysics to the characterization of deep groundwater related to shale-gas and geothermal development. He recently co-authored The Groundwater Project eBook Geophysical Logging for Hydrogeology.

About the Speaker (Field Trip):

John Ciovacco is the President of Aztech Geothermal, LLC, a design-build contractor of innovative building energy systems based in Ballston Spa, NY. He is a resource to building owners, construction companies, engineers, architects, and investors regarding the latest renewable and energy efficiency technologies, government incentives, and financing options. He is a consultant to over 15 Networked Geothermal projects in the Northeast, several with utilities such as National Grid, NYSEG/RG&E, and Central Hudson and others with municipalities and private developers. John is an AEE Certified GeoExchange Designer (CGD), IGSHPA Certified Geothermal Inspector (CGI), IGSHPA Accredited Installer (AI), a Building Performance Institute (BPI) Certified Contractor, and a Certified Green Professional with the NAHB. He has a B.S. in Mechanical Engineering from Union College

Thank You to our Dinner and Meeting Sponsors!



New York State
Council of
Professional
Geologists



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

Hydrogeophysical Tools and Data for Geothermal Resource Mapping and Site Characterization

Abstract (Dinner): In cooperation with the New York State Energy Research and Development Authority (NYSERDA), the U.S. Geological Survey (USGS) is compiling, collecting, and analyzing hydrogeologic data to inform geothermal development in upstate New York. Three multi-county areas have been selected for focused study representative of major physiographic provinces and resource development in urban to rural settings. The study areas are Monroe and Wayne Counties in the Ontario Lowlands; Broome and Tioga Counties in the Allegheny Plateau; and Manhattan, Bronx, and Westchester County in the Manhattan Prong-Hudson Highlands.

A preliminary geographic information system (GIS) has been assembled using existing data sources, including geologic maps from the New York State Museum (NYSM) and USGS; gas-exploration and geothermal well logs, as well as geotechnical corehole logs from the NYSM Empire State Organized Geologic Information System (ESOGIS); and water-well records from both the New York Department of Environmental Conservation DECinfo Locator and the USGS National Water Information System.

Passive seismic soundings collected and analyzed as part of USGS investigations in cooperation with NYSDEC and New York City Department of Design and Construction provide additional depth-to-bedrock data. To address existing data gaps in the study areas, additional seismic soundings will be collected as part of the current study. A statewide inventory of geothermal bores also is underway to capture drilling logs and thermal conductivity test results that have not been previously reported.

Hydrogeophysical logs collected and analyzed in collaboration with the New York City Department of Environmental Protection and State and Federal partners provide highly detailed subsurface information for the study. The hydrogeophysical logs include caliper, gamma, normal resistivity, induction conductivity, borehole tilt and azimuth, acoustic and optical images, flow, and fluid conductivity and temperature. Additional hydrogeophysical logs are being collected at geothermal bore sites during the current study to highlight the utility and value of these tools for geothermal projects.

To ensure wide accessibility and usability, an interactive, web-based mapper is in development. This tool will present a comprehensive range of hydrogeologic information critical for planning, safety, and efficient geothermal development, such as the thickness of glacial sediments and depth to competent bedrock, bedrock lithology and fabric, borehole deviation, aquifer and thermal properties of sediments and bedrock, and the depth of fresh-water, saline-water, and gas zones.



Special thanks to Christine Hoffer at New York Geothermal Energy Organization for helping coordinate the speaker and field trip for this event

Dinner Reservations are required by Friday April 10, 2026

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

Dinner and Program Cost:

\$10.00	Student Members*
\$30.00	Dormant (Ret.) Geologists
\$40.00	Members
\$50.00	Non-Members

***PDH Certificate Available for Additional Cost:**

\$10.00	Member attending Dinner
\$15.00	Member (Program Only)
\$20.00	Non-Member attending Dinner
\$35.00	Non-Member (Program Only)

In-person Program Only: Free

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

Location: Philly Bar and Lounge
622 Watervliet Shaker Rd
Latham, NY 12110

Time:

Social Hour

Dinner

Program

5:00pm

6:00pm

7:00pm