



# Hudson – Mohawk Professional Geologists Association

## M A R C H M E E T I N G

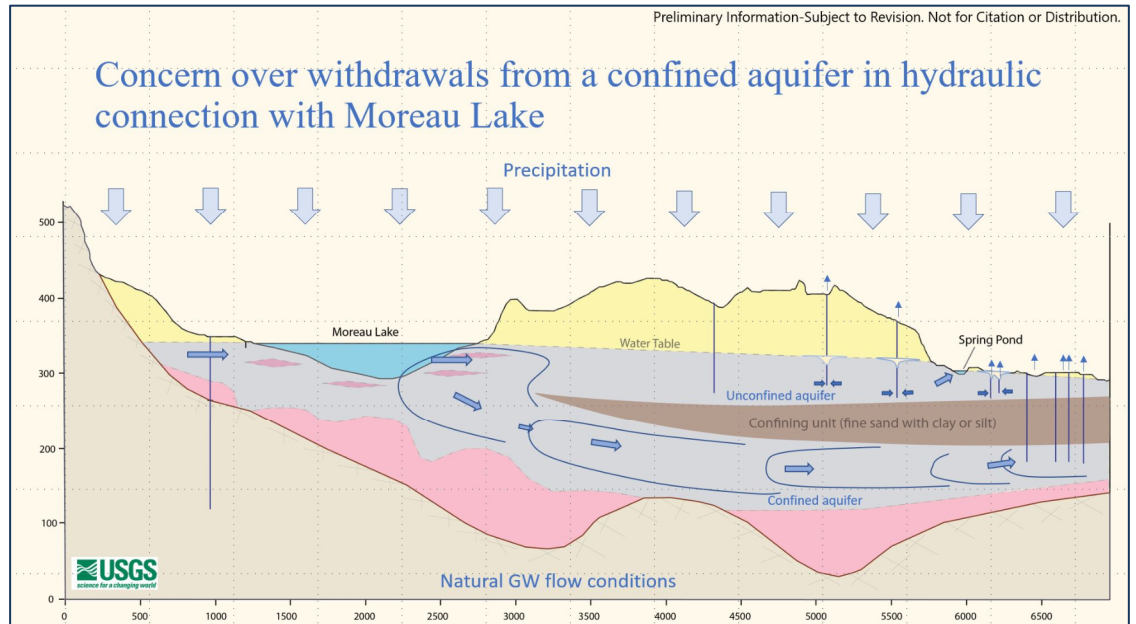
www.hmpga.net

### March 20, 2024

Check Out April  
Field Trip and  
Poster Session

Meeting  
Sponsorship  
Available

## The Ups and Downs of Moreau Lake – A Hydrogeologic Investigation of Lake-Level Fluctuations (2016-2021)



**Speaker: Paul Heisig, P.G.**  
**Hydrologist, U.S.G.S. (Emeritus)**

**This course is approved for 1 PDH<sup>+</sup>**

**Abstract:** The causes of water level fluctuations at Moreau Lake, within Moreau Lake State Park in the town of Moreau, New York, were investigated from 2016 to 2021 after dropping lake water levels raised concerns by the New York State Department of Parks, Recreation, and Historic Preservation about the loss of a shallow swimming area at the park beach. Annual variations in precipitation records from the area did not account for the lake water-level decline, however two possible causes for the low lake water levels were investigated: 1) the increase in groundwater withdrawals from new residential development since about 2000 and 2), seasonal changes (nongrowing and growing seasons) in precipitation.

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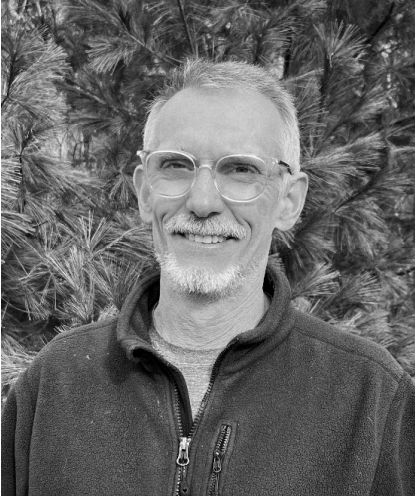
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# M A R C H M E E T I N G



**About the Presenter:** Paul Heisig (Emeritus) has worked as a hydrologist for the U.S. Geological Survey on Long Island and in eastern and central New York for the last 38 years and to date has authored or co-authored 22 USGS technical reports. His work over this time has focused on: characterization and conceptualization of water resources in a variety of hydrogeologic settings in New York State including: the northern Catskills, the Newark Basin bedrock aquifer in Rockland County, and numerous sand and gravel aquifer settings in eastern and central part of the State; effects of point and non-point sources on water quality in groundwater and in surface-water base flows; and, occurrence of methane in groundwater of south-central New York State. His current work includes a study of lake-level fluctuations at Moreau Lake in northern Saratoga County and a hydrogeologic investigation of the Tully Valley, south of Syracuse.

- NEXT MONTH -

## American Institute of Professional Geologists – Northeast Section

3 PDHs

### Field Trip to *Holcim Ravena Cement Plant and Quarry*

April 17, 2024 - 12:30 pm to 3:30 pm

Guided tour explaining the process of creating cement from in situ rock. Explore the active plant and quarry, with an overview of how limestone is chosen for the cement process, how it is extracted and transported to the plant, and how it is processed. Please register on-line at [www.hmpga.net](http://www.hmpga.net), if you would like to sign up to attend the field trip.

**HMPGA and NE-AIPG members - \$25 (includes 3 PDHs); \$10 (no PDHs)**

See attached flyer for more information.

Reservations are required by Monday

**March 18, 2024**

Whether attending the dinner or only the in-person presentation

Register on-line at [www.hmpga.net](http://www.hmpga.net)

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

Meeting  
Sponsorship  
Available

#### 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](mailto: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](mailto:j.dippert@ctmale.com) for more information.