



Hudson – Mohawk Professional Geologists Association

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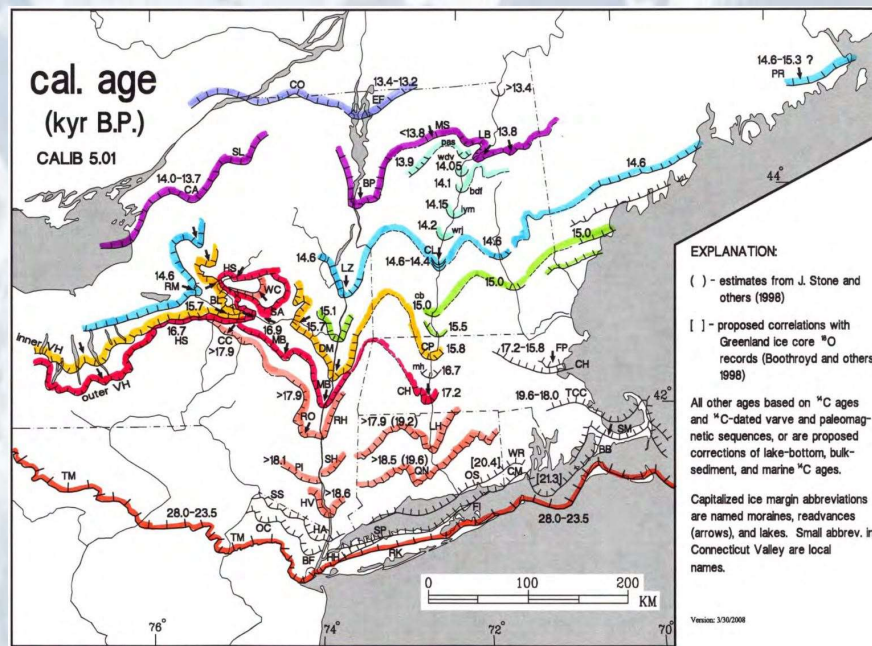
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February 21, 2024

Annual Donald Cadwell Memorial Lecture on Glacial Geology

Glacial Geology of the Empire State: An overview of Process Landforms, Layers and Lore



Speaker: Andrew Kozlowski, Ph.D., P.G.
Museum Scientist IV

This course is pending approval for 1 PDH+

Abstract: The surficial geology of New York State, like all states in the Great Lakes Region is the product of multiple glaciations during the Pleistocene. Each glacial advance eroded mountain tops and carved passes into much older bedrock strata. Similarly, each recession deposited thick complex and variable sediments in deposition centers. These deposition centers often coincided with a proglacial ice-dammed lakes that resulted from the unique physiography developed as a product of bedrock resistance and structural geology. The resulting geologic framework from both erosional and depositional processes

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Abstract: (cont'd) associated with Pleistocene glaciers created the sediments and stratigraphy that comprise most of the aquifers and aggregates that our modern society utilize. The same geologic framework born out of glacial processes also retains the complex geology that modern geoscientists work within to mitigate contaminant hydrogeology, geotechnical problems and geologic hazards.

About the Presenter: Andrew Kozlowski, Ph.D., is a native of Cortland, NY, received his undergraduate bachelors of science degree in geology from SUNY Cortland, masters of hydrogeology from Western Michigan University, and his doctorate in glacial geology from Western Michigan University. His expertise



is in: glacial geology, geomorphology, hydrogeology, geologic hazards, near-surface geophysics (Ground Penetrating Radar), drilling and subsurface coring methods and Pleistocene Geology of New York State. Mr. Kozlowski's research focus utilizes geologic mapping of surficial deposits, primarily glacial in origin to better understand the natural history and societal and land use issues. Specifically, his work directing the geologic mapping program in the state museum has focused on understanding sediment – landform relationships to address geologic hazards such as landslides, water quality & resources, and aggregate resources, etc. In pursuit of this objective, his long term goal is to develop a better understanding of three-dimensional geologic frameworks of glacial deposits that provide better understanding and resolution of glacial stratigraphy and glacial chronology in New York State.

The February meeting is sponsored by:



Brian Curran

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Reservations are required by Monday
February 19, 2024

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*

\$30.00 for dormant geologists

\$40.00 for members

\$50.00 for non-members

In-person program only: Free

*PDH certificate available for: **\$10 (member w/ dinner)**

• **\$15 (member for program only)** •

• **\$20 (non-member w/dinner)** •

\$35 (non-member for program only)

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

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