



Hudson - Mohawk Professional Geologists Association

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

www.hmpga.net



With the
Eastern New York Chapter of the A&WMA



March 16, 2022

(Inconvenient Aspects of) Modeling Climate Change

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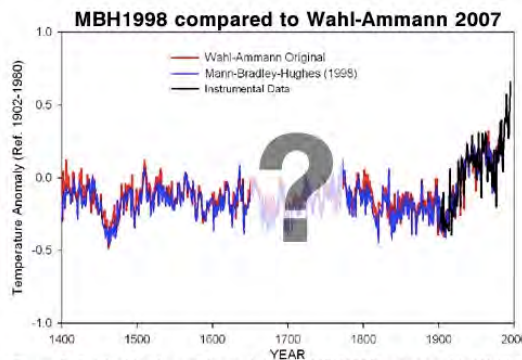
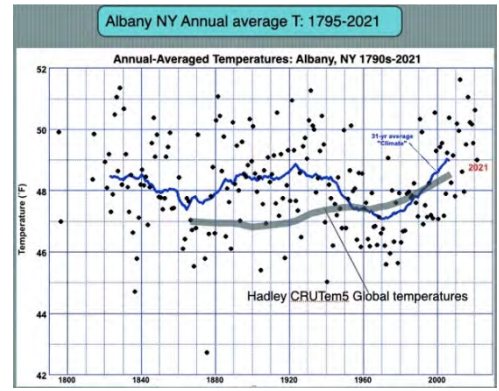
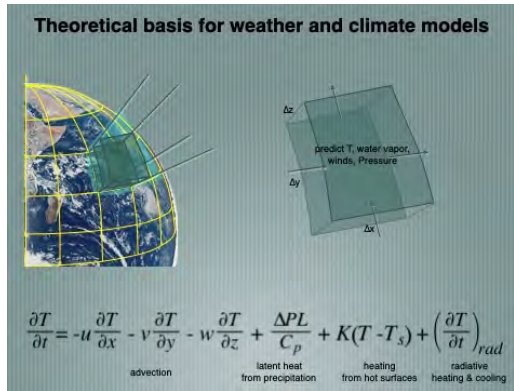


Figure 2: Original hockey stick graph (blue - MBH1998) compared to Wahl & Ammann reconstruction (red). Instrumental record in black (Wahl & Ammann 2007).



Christopher J. Walcek, PhD

This course has been approved for 1 PDH+

Abstract: This talk summarizes the scientific basis of climate change science, and highlights the often overlooked areas of uncertainty in this highly politicized discipline. Local meteorology and paleo-climate records will be presented, and put into the context of the changing global climate. Physics-based perspectives of climate scientists on either side of the "consensus" view will be summarized critically.

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

About the Presenter: Chris graduated UCLA with PhD in Cloud Physics & Atmospheric Sciences from UCLA. He worked at the NSF-supported National Center for Atmospheric Research (NCAR) studying Acid Rain in Boulder Colorado before joining the Research Faculty at the SUNY-Albany Atmospheric Sciences Research Center (ASRC) in 1986. For over 30 years, he taught graduate courses and studied air pollution meteorology and cloud physics, with research supported by US EPA, NASA, and National Science Foundation funding. He retired in 2020, but continues with an emeritus appointment at ASRC.

Reservations are required by Monday

March 14, 2022

Whether attending the dinner or only the in-person presentation

Register on-line at www.hmpga.net

Call or email Marie Cole at (518) 724-7254 • marie.cole@ramboll.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 Jesse Vollick • jesse.vollick@ramboll.com

Location:	Century House	Time:	Social Hour	5:00pm
	997 New Loudon Road		Dinner	6:00pm
	Latham, NY 12110		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 Jesse Vollick at jesse.vollick@ramboll.com for more information.

President's Message

Dear HMPGA Members,

I would like to acknowledge and thank HMPGA Board of Directors member Stefan Truex for a very well received and lauded class presentation he gave to Rensselaer Polytechnic Institute students on March 2nd. Dr. Mimi Katz, Associate Professor in the Earth and Environmental Sciences Department at RPI, contacted the Board at the end of last year about engaging a geologist to present at her spring environmental seminar on the work environmental consultants perform. Stefan graciously volunteered and his talk was a hit with the students and Dr. Katz! Several students provided feedback indicating they didn't realize how interesting and varied the field of environmental consulting was, and in at least one case Stefan's talk opened this up as a potential career path.

Stefan's is a prime example of the outreach each of us as professionals should make time for and echoes an earlier President's Message of mine from the November 2021 Newsletter about the importance of seeking out those opportunities to disseminate geologic knowledge and exchange information. If you have an interest in presenting about your role as a geologist, in whatever field you practice, please contact me or the Board and we will make the necessary connections.

Now another small ask for your consideration. Dr. Katz had initially inquired about the possibility of a student field trip to a remediation site, but none of us on the Board knew of one where this would be allowed. Please contact me or the Board if you have a suggestion for a remediation or other geologically-related site that may be suitable for a potential future class field trip. The association should endeavor to compile and maintain a list of potential field sites to aid our academic brethren.

And speaking of volunteer opportunities, HMPGA is once again seeking volunteers to lead high school student field trips to Howe's Cave. Additional details will be forthcoming in future newsletters and emails. As it currently stands, volunteers are needed on the following dates: Thursday, May 12, 2022; Friday, May 13, 2022; Thursday, May 26, 2022; and Friday, May 27, 2022.

And finally, one last remark in the vein of volunteering. As I announced during February's meeting, I will be stepping down at the end of the spring season as the HMPGA Program Chair, a committee role I have been performing solely for many years. This leaves a vacancy in an important committee that is responsible for coordinating and lining up speakers for the association's monthly meetings. With the newly added responsibility for coordinating PDH course approvals, the Program Committee is in need of a few volunteers to manage this workload for future meetings. Members who have an interest in maintaining and enhancing the quality of HMPGA's monthly programs should contact me directly to express your interest in joining the committee.

I typically sign off on these messages with "stay healthy," but given the numerous opportunities to volunteer in the coming months (and beyond!) I will conclude this message with:

Many thanks in advance,

Jesse Vollick, P.G.
President 2021-2022

U.S. Geological Survey Releases 2022 List of Critical Minerals

USGS

The United States Geological Survey has released a new list of 50 mineral commodities critical to the U.S. economy and national security after an extensive multi-agency assessment. The 2022 list of critical minerals was determined using the most up-to-date scientific methods to evaluate mineral criticality.

<https://www.usgs.gov/news/national-news-release/us-geological-survey-releases-2022-list-critical-minerals>



Beryllium nodule from Spor Mountain, Utah

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Volunteer opportunities

Upcoming Howe's Cave tours in May!

If you need volunteers for an event or would like to get involved in an event please contact Elizabeth Moore at:
mooreelizabeth.07@gmail.com

Job Openings:

Engineering Geologist/Mining Engineer

H2H Geoscience Engineering, PLLC

Troy, NY

Full-Time



H2H Geoscience Engineering, PLLC is a rapidly growing geologic, engineering and environmental consulting firm currently seeking an entry level candidate to join our dynamic team of professionals.

Qualified candidates must have a Bachelor's degree, B.Sc. in Mining Engineering is preferred, or in an associated technical field such as Geology, Geological Engineering, or Civil Engineering. PE/CPG preferred. At least 5 years of geology, mining engineering, or operations experience is preferred.

This position requires willingness to travel to sites throughout the eastern United States for up to a week at a time, ability to work both in the field and office efficiently, excellent communication skills and attention to detail.

For immediate consideration, please e-mail resume to rhisert@h2hg-e.com with "Engineer/Geologist" as the subject header.

Please see the HMPGA website for more details:
<http://www.hmpga.wildapricot.org/page-1604462>

BOARD MEMBERS

Scott Hulseapple
(518) 348-6995

shulseapple@alphageoscience.com

Danylo Kulczycky
(315)382-8777

DKulczycky@pwinc.com

George Pafumi
rockearth@aol.com

Stephen Truex
stefan.truex@hrpassociates.com

Dax Soule
Dax.Soule@qc.cuny.edu

Andrew Clift
aclift@h2h-e.com

Matthew Dupee
mdupee@alphageoscience.com

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- ❖ Graphical Data Analysis/Mapping
- ❖ Geochemical Calculations/Modeling
- ❖ Statistical Analysis

Support Your Local Geologist - Buy a Pleistocene Pilsner

NYSCPG's 2nd special edition beer batch is brewed by our friends from Lithology Brewing Company of Farmingdale, NY! The beer is available for purchase (\$18/4-pack), contact your local representative Mark Williams for details:

518-222-6616 or m.williams@ctmale.com

Purchases directly support the NYSCPG so please spread the word.
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Jesse Vollick
(518) 724-7265

jesse.Vollick@ramboll.com

Vice President

Brian Taylor
(518) 560-5907

BTaylor@BrwnCald.com

Treasurer

Elizabeth Moore
(518)812-6984

Mooreelizabeth.07@gmail.com

secretary

Dax Soule
Dax.Soule@qc.cuny.edu

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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	Scott Hulseapple	shulseapple@alphageoscience.com
Newsletter	Josh Gowan	jgowan@alphageoscience.com
Educational Outreach	Joe Osso	Joseph.Osso@nyserda.ny.gov
Programs	Jesse Vollick	Jesse.vollick@ramboll.com
Membership	Vacant	

HMPGA CALENDAR

DATE	SPEAKER	TOPIC
March 16, 2022	Chris Walcek Professor Emeritus, SUNY ASRC	Inconvenient Aspects of Climate Change Joint meeting with AWMA
April 20, 2022	Stephen Pekar Queens College ----- TBD - College Student Posters	The results from the expedition that explored the geologic history of the newly named 8 th continent called Zealandia ----- TBD - College Student Poster Session

OTHER EVENTS:

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



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M A R C H ' S G E O - C R Y P T O Q U O T E

CLUE: W = P

Each letter of the expression is substituted by another letter. Puzzle is a quotation related to Geology.

CO EOVUA BOGEGBN JMO LGUAXAB VYJOU JMO

OVUJMDFVHO. - UVEWM CVEPG OLOUTGA

F E B R U A R Y ' S S O L U T I O N G E O - C R Y P T O C I P H E R

WAS IT A SILURIAN-DEVONIAN SCANDAL WHEN FUNGI TOOK A LICHEN TO ALGAE?



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



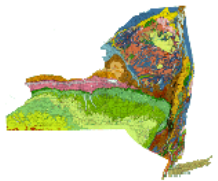
New York State Council of Professional Geologists (NYSCPG) strives to strengthen and advance the geologic sciences as a profession, promote the protection of public health and welfare and the environment through the professional practice of geologic sciences, and create high standards of ethical conduct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



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