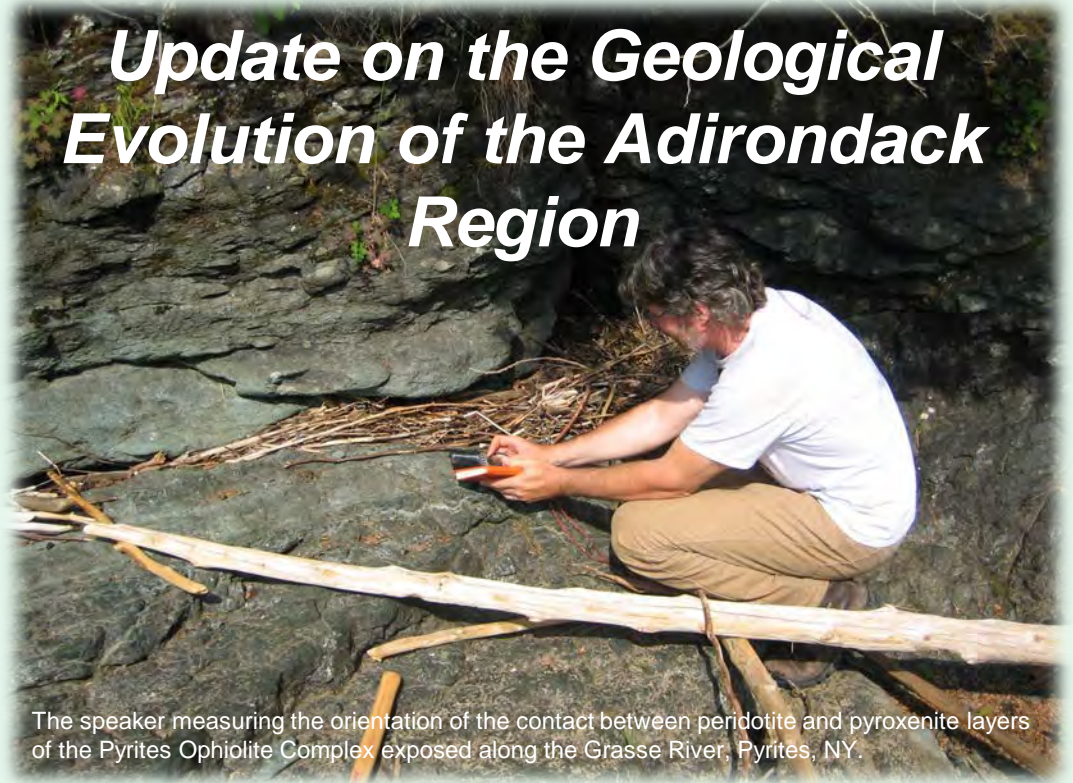


# Hudson – Mohawk Professional Geologists Association

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

[www.hmpga.org](http://www.hmpga.org)

### *Update on the Geological Evolution of the Adirondack Region*



The speaker measuring the orientation of the contact between peridotite and pyroxenite layers of the Pyrites Ophiolite Complex exposed along the Grasse River, Pyrites, NY.

## March 15, 2017

**Speaker: Dr. Jeffrey Chiarenzelli,  
Dept. of Geology, St. Lawrence University**

**Abstract:** New analytical tools and new thinking has drastically changed our understanding of the geological evolution of the Adirondack Region. Formed more than one billion years ago, in the core of a global network of orogenic belts during the assembly of the supercontinent Rodinia, the Adirondack region presents an opportunity to study the response of the deep crust to continental collision. In this talk Jeff will introduce the tectonic history and chronology of the Adirondack Region in the context of the greater Grenville Province. Along the way he will summarize some of the new findings and, hopefully, dispel some long-standing “alternative” facts.

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

**About the Presenter:** Jeff is the James Henry Chapin Professor of Geology and Mineralogy at St. Lawrence University in Canton, New York. He has worked for the New York State Department of Health, several universities, and was a principal of Flying Hammer Geology, Inc., a company specializing in geological mapping in northern Canada. His work is primarily in Precambrian terranes but he enjoys all types of geology and has had a career-long interest in the Adirondack region. His current field work includes investigation of the Snowbird Tectonic Zone, the 3000 km long boundary between the Rae and Hearne Provinces in arctic Canada and mapping of the Witherbee Quadrangle associated with the magnetite-apatite deposits of the eastern Adirondack iron mining district.



Reservations are required by Monday

**March 13, 2017**

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program only: Free

**Location:** Century House  
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Latham, NY 12110

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

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@obg.com](mailto:jesse.vollick@obg.com) for more information.

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## One Board Vacancy

## PRESIDENT'S MESSAGE

Greetings!

Happy St. Patrick's Day and Have a Great Vernal Equinox. I've begun all these messages with seasonal greetings like these, so why stop now? Spring's arrival does bring HMPGA's largest community outreach effort at Howe's Cave. Please see the call for volunteers in this newsletter and your in box. Each year, our members sign up to spend a little over a half a day assisting high school earth science students on their field trip to Howe's Cave and the Cave House Museum.

The students arrive at the Cave House with enthusiasm to learn and your support helps them do just that. They split up to do several modules as they complete their work packets. Their stations include examination of a full outcrop of the Coeymans and Manlius Limestones, study of fresh boulders of over a dozen lithologies from around New York in the rock garden, and a short visit to the museum. They leave their packets and cell phones behind when they explore a short section of Lester Howe's original tourist cave. If time and water levels allow, students get to explore a few narrow passages. Some of the groups take their busses up to the top of the quarry and examine a glacially striated hilltop exposure, a sinkhole, and pebbly glacial till. You need not be an expert on limestone sedimentation or a seasoned caver to volunteer and there is plenty of support available, including a short tutorial session held before the trips. Try it. You'll like it.

I should mention a couple other ways your organization supports local science students. At last month's meeting, the Board of Directors voted to make our annual contribution of \$250 to the Joseph Henry Science Fair, a competition of students in grades 4-8 in Albany city schools to be held at the College of St. Rose on March 17<sup>th</sup>. HMPGA makes this contribution each year in memory of our founding member Bill Cooper, who was a big supporter of HMPGA outreach to schools. Judges are needed for this event. If you can help, please contact [josephhenry@strose.edu](mailto:josephhenry@strose.edu).

Continued on next page...

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## President's Message Continued

The board also voted to give \$150 to support the Shenendehowa science fair later in the year. The contribution will supply materials for our efforts led by Chris Monaco each year. We will issue a call for volunteers to help Chris soon.

Our March 15<sup>th</sup> Meeting at the Century House will shift way back in time from February's Quaternary geology to the much more ancient Precambrian. Dr. Jeff Chiarenzelli will be joining us from St. Lawrence University as the evening's speaker. Jeff promises to take on "alternative science facts" as he discusses the tectonic history of the Adirondacks. I hope to see you there.

Kevin

	
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Ads in the HMPGA Newsletter range from \$100-\$200 annually. For more information contact Joshua Gowan, P.G., Alpha Geoscience, [jgowan@alphageoscience.com](mailto:jgowan@alphageoscience.com)

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## VOLUNTEER OPPORTUNITIES

Members, we hope that everyone had a happy and safe celebration for the new year. We wanted to remind you that 2017 brings new opportunities to help the community as geologists. Please keep in mind that during the spring, we will have our Howe's Cave trips where volunteers can assist local high school field trips that visit the site (dates are still being organized). We also have a high school science fair and the gem & mineral show where we can volunteer to assist at our table. If you have any interest in volunteering, please reach out to Joe Osso!



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# MEMBER SPOTLIGHT

## Dawn Washo

President of Resource Environmental Management, Montrose, PA

---

### How did you become interested in Geology?

In 2001 my husband Jerry and I sold just about everything we owned and moved our young family from St. Louis, MO, back to northeastern Pennsylvania with the intent of starting our own business. In the beginning we managed a lot of waste, both residual and hazardous. While looking into why some of this waste was being generated I discovered the PADEP Land Recycling Program. The interdisciplinary aspect truly appealed to me; I enrolled in the Master's of Geology program at Binghamton University and found my niche.



Dawn and her two children Romey and Emma in Prospect Bay, Nova Scotia

### What is your current position?

I am president at Resource Environmental Management, Inc. in Montrose, PA, but I often tell people I'm an industrial maid.

### Do you have a favorite rock? What is it?

I grew up in Wilkes-Barre and my maiden name is Llewellyn; I'm very partial to anthracite coal.

### What made you decide to pursue this career path?

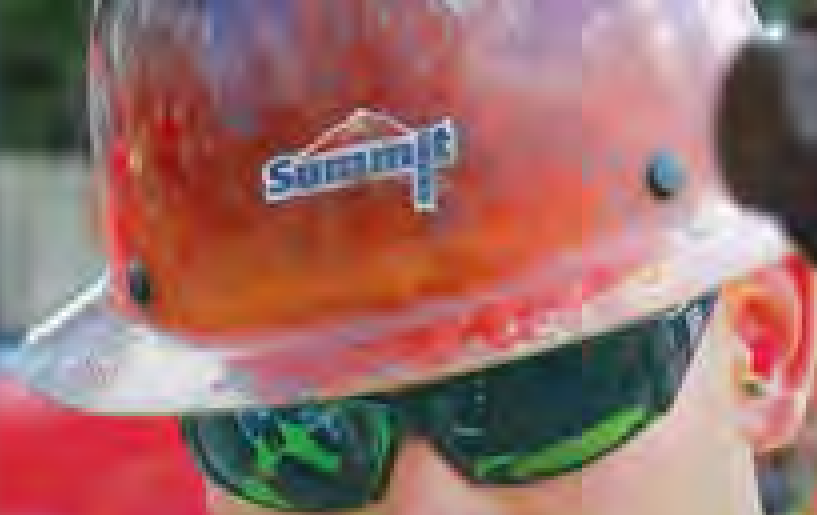
As described above, circumstances put me on the geology path. I've stayed true to the course because it's very rewarding to undertake and complete cleanup projects knowing your will have a positive effect.

### What other people, interests or activities do you enjoy?

I like to run all year, ski with friends and family in the winter, and garden in the warmer weather. However, in my next life I will have to live closer to the ocean.

### Describe your most memorable experience in your profession?

No truly stellar moment but a series of mini-epiphanies when I learn the 'why' behind things observed as a child, like why are there icicles hanging off the rocks?



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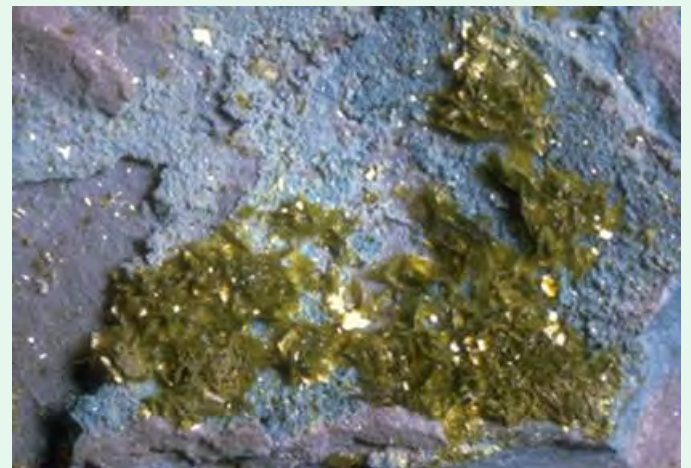
# MINERAL OF THE MONTH

## Volborhite

Secondary mineral found in oxidized zone of vanadium-bearing hydrothermal deposits.

System: Monoclinic • Appearance: Small, olive-green, pseudo-hexagonal plates, often arranged in globular form • Localities: Worldwide • Chemical Composition:  $\text{Cu}_3(\text{VO}_4)_2 \cdot 3\text{H}_2\text{O}$  • Hardness: 3.5

Named after Russian paleontologist, Alexander von Volborth who first noted the mineral in 1837, found originally in the Urals. Closely related to tangeite. No noted usages, though sought after by collectors.



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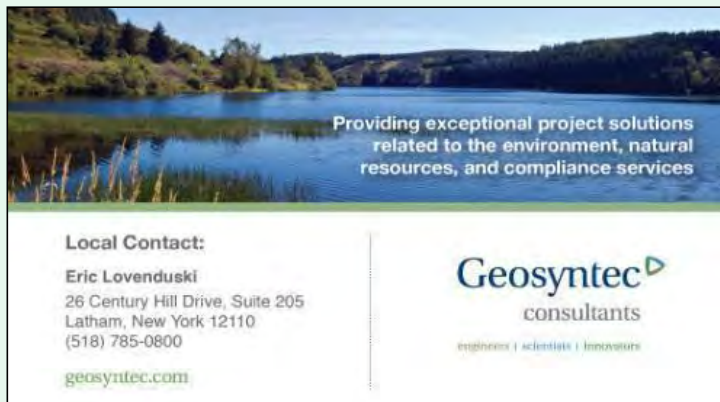
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Being active in HMPGA is a fully volunteer activity that often demands a great deal of attention. The following members chair this year's committees and we thank them:

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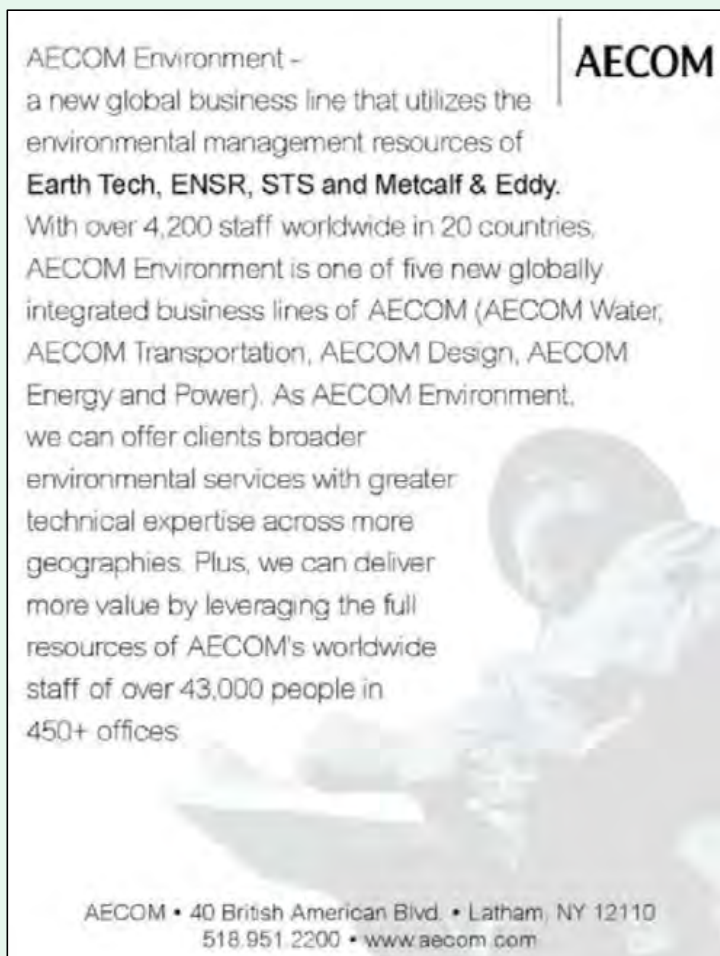
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QWG-PVKPCVWJ SWGNZ,

XWNX WC PKYQWCYQ PCG THGWYQ;

RHVPTTWYQ LYTV P TQWGNZ,

TVHCI QZVZSHSWVZT' JHQRHTWVWHC GZAPYKVT,

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# Monitoring Alaska's Remote and Restless Bogoslof Volcano


## USGS

Bogoslof volcano, located in the Aleutian Islands about 98 km (61 mi) northwest of Dutch Harbor/Unalaska, is in an active eruption sequence that began in mid-December 2016 and continues today. Read the rest of the article here:





<https://www.usgs.gov/news/monitoring-alaska-s-remote-and-restless-bogoslof-volcano>



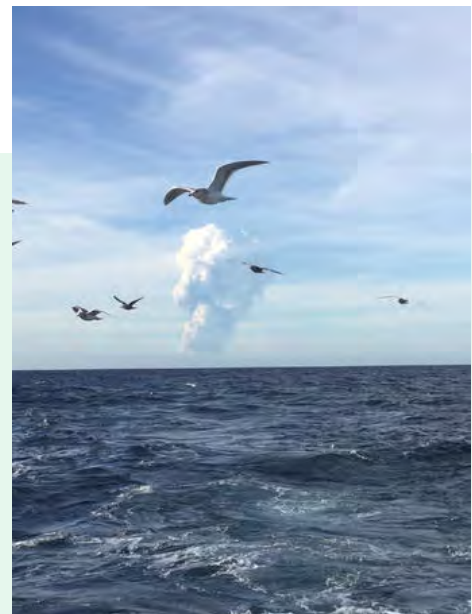
Index map showing the location of Bogoslof Volcano (Public domain.)



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Plume from Bogoslof Volcano, January 5, 2017.  
 (Credit: Trever Shaishnikoff. Public domain.)

# HMPGA Winter/Spring 2017 Meetings

Date	Speaker	Presentation/Event
March 15, 2017	Dr. Jeffrey Chiarenzelli James Henry Chapin Professor of Geology and Mineralogy St. Lawrence University	Update on the geological evolution of the Adirondack Region
April 19, 2017	Dr. Les Hasbargen Dept. of Earth and Atmospheric Sciences SUNY College at Oneonta, NY ----- College Student Poster Session	Title TBD - Structure from motion 3D landform modeling ----- College Student Poster Session
May 17, 2017	TBD	TBD
Summer 2017 - Date TBD	-	TBD - Summer Outing

Information subject to revision.

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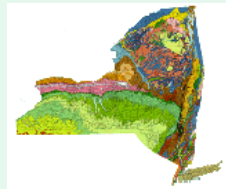
New York State Council of Professional Geologists (NYSCPG) strives to strengthen and advance the geologic sciences as a profession, promote the protection of public health and welfare and the environment through the professional practice of geologic sciences, and create high standards of ethical conduct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



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