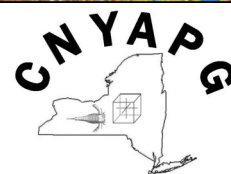


CNYAPG
April 2023



**Central New York Association
of Professional Geologists**

Jean M. Patota, P.G.

In this Issue:

- April Meeting Announcement
- President's Message
- 2023 Election– Candidate Biographies
- Crossword Puzzle
- Sponsor Recognition

5 April 2023– 7:00 PM - In-Person & Virtual Options Available

Jean M. Patota, P.G. will present:

Your P.G. License and Tips to Keep It

An Overview of Regulations and Rules of Professional Conduct

This presentation provides an overview of the rules and regulations governing the practice of geology. Ethical topics will include summarizing the permissible forms of practice and authorization in NYS, the Rules of Professional Conduct outlining prohibitions and your professional responsibilities to the public, and a brief introduction to the Office of Professional Discipline (spoiler alert - practice ethically so you never meet them). Significant time will be allotted for a discussion of fictitious ethical scenarios that will assist licensees to recognize and consider the regulations within the context of practicing geology and conducting business in NYS.

Jean M. Patota, NYSCPG member since 1995, and a member of CNYAPG, has been a practicing geologist for more than 40 years, working on a range of projects that include investigating and remediating chemical spills, evaluating water supplies, mitigating geologic impacts, preparing expert opinions, and providing geotechnical support to engineers. Jean has assisted clients with regulatory compliance at industrial and commercial properties, landfills, and hazardous materials sites, and has evaluated hydrogeologic impacts for environmental reviews. She is an experienced consultant and business owner, and understands practical issues in the profession. Jean is a licensed Professional Geologist in NY and NH.

NYSCPG has approved this presentation to count for 1 NY PDH towards your NY-PG continuing education requirements AND to fulfill the requirement for one ethics based PDH

BOTH IN-PERSON and VIRTUAL options are available!

Virtual registrants will receive Zoom login instructions the morning of 4/5/23 and we look forward to seeing in-person registrants at the Spaghetti Warehouse!

Location: Spaghetti Warehouse, 689 North Clinton Street, Syracuse, New York or ZOOM

Time: 5:00–6:00p.m. social hour: 6:00-7:00 p.m. dinner; 7:00 p.m. technical presentation

RSVP: <https://cnyapg.org/> or Bonnie (Parratt Wolff) bolney@pwinc.com or (315) 437-1429

Next dinner meeting - May 2023

CNYAPG Newsletter

The CNYAPG Newsletter is a monthly publication of the Central New York Association of Professional Geologists dedicated to sharing upcoming events, delivering regular articles of interest and providing the Membership a forum for discussion.

The newsletter is prepared by the Officers and Board of Directors of CNYAPG (listed below).

Officers:

Calvin Prothro, President
c.k.prothro@gmail.com

Sean Pepling, Vice President
SPepling@PWInc.com

Gerry Gould, Treasurer
ggould@gouldgw.com

Will Hackett, Secretary
Whackett@PWInc.com

Curt Lindy, Associate Vice President
curtlindy@gmail.com

Board of Directors:

Dana Himmel
Dana.himmel@nationalgrid.com

Nate Kranes
nkranes@trccompanies.com

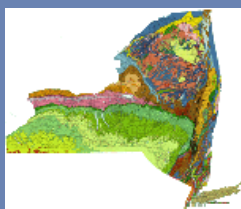
Bill McCune
William.McCune@arcadis.com

Lynette Mokry
l.mokry@fpm-remediations.com

Justin Stroup
justin.stroup@oswego.edu

Guy Swenson
Guy.Swenson@ramboll.com

Keith White
Keith.White@arcadis.com



President's Message— April 2023

April showers bring May flowers! Maybe for most of the northern hemisphere, but when it comes to the weather in central New York, April is usually the equivalent of March Madness in College basketball. Sometimes you get what you expect, but most of the time you are just upset. My April weather bracket has clear skies, warm breezes, and temps in the low-70s for April 7th and gray skies, a winter storm warning, and 8-inches of snow for April 10th. Let's hope for the best. Before I begin by thanking our March presenter and announcing our April presentation, I want to acknowledge a few people. If am not mistaken April 2023 marks 30 years since four people (Bill Morrow, Ed Hinchey, Steve Rossello, and Dave Palmerton) came together to establish a local professional organization. The purpose of this organization was to foster the local geological community by offering opportunities for fellowship and education and promoting communication and networking among the geologists and geoscientists of central New York. I think it is safe to say that over the last 30 years, CNYAPG has met this goal!

During the last three decades, CNYAPG has become a conduit for communication between our local colleges and universities and the professional geological community. We have been a key player in getting geology licensed as a profession in New York state. CNYAPG has hosted regional symposiums on important environmental and geological topics that have attracted participants from across the country. We support local geosciences students by offering a research scholarship and encourage geosciences students by awarding a prize for the best geoscience poster presentation during Syracuse University's Earth Science Student Symposium. None of this may have come about if it was not for those four geologists. On behalf of the current CNYAPG board of directors and nearly a hundred active members, I would like to say thank you to Bill Morrow, Ed Hinchey, Steve Rossello, and Dave Palmerton, for breaking the ground for us and building the foundation of CNYAPG. I, as the current president, would like to give a heartfelt thanks to all the current and past board members for volunteering your time and giving your energy to keep this organization going over the past 30 years. Your efforts can be seen and felt from elementary school classrooms to the offices of CEOs and boardrooms of some of the largest engineering and geotechnical firms in the nation. Through the students and professionals CNYAPG has touched, we have influenced local, state, and national environmental policy over the three decades.

OK, with all of that said, what is happening now with CNYAPG? First, I want to thank our March presenter, Mr. Jesse Lubbers of National Grid for his very interesting talk entitled: "Horizontal Directional Drills – Identifying and Mitigating Risks." His talk was well attended and had some very interesting information and generated some great conversations. Thanks, Jesse! For April we are pleased to announce that Jean Patota will be presenting her talk entitled: "Your P.G. License and Tips to Keep It: An overview of Regulations and Rules of Professional Conduct." This talk will satisfy the ethics PDH requirement for the New York State PG license. If you are a GIT (Geologist-In-Training) or a student planning on beginning a journey to become a P.G. in New York state, this talk will give you vital information. We are all looking forward to Jean's talk on April 5th. I look forward to seeing you all there.

President's Message (continued...)

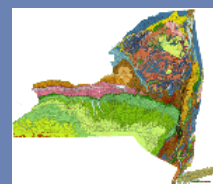
What else is happening? Syracuse University will be hosting its Central New York Earth Science Student Symposium on Saturday, April 15, 2023. If you are interested in attending, please contact Syracuse University's Earth and Environmental Science department or one of us at CNYAPG, and we can get you connected with the SU department. CNYAPG will be evaluating student posters and will be awarding a prize for the best student poster. On April 13th, the New York State Council of Professional Geologists (NYSCPG) will be holding "Geology Rocks Concert (featuring the Grateful Dead cover-band Dead Meat) in White Plains, New York. Visit the NYSCPG webpage for details. On April 19th, the Northeast section of the American Institute of Professional Geologists (NEAIPG) will be holding a Membership Meeting and Student Expo with the Hudson Mohawk Professional Geologists Association (HMPGA) in Latham, New York. Visit the NE-AIPG webpage for details. The planning for CNYAPG's field days this fall is well underway, and things are taking shape with several great presenters and demonstrations lined up. If you or your firm are interested in participating in the event, please contact us as soon as possible, so we can get you or your company into the program. We will be announcing a date next month. Finally, as you know by now, CNYAPG is having elections for board members this month. If you are an active member please vote, and if you want to be on the ballot and have not already contacted us, there will be an opportunity for you to be a write-in candidate. Please review the candidates and vote.

Lastly a few cool geological events in the last month and to look forward to: On March 8th there was a 1.1 magnitude earthquake with an epicenter approximately 12.43 miles North-northeast of Lyndonville, New York, and a hypocenter of approximately 3.36 miles beneath Lake Ontario. On March 12th over a hundred people reported a bolide (very bright meteor) over parts of New York, New Jersey, New Hampshire, Pennsylvania, and Connecticut. With the annual Lyrid meteor shower starting on April 15th and running through April 29th, maybe we will get to observe more such events. Not that I am suggesting the sky is falling, but asteroid 2023DZ2 passed between the earth and the moon on March 25th at a distance of approximately 107,000 miles, and with clear skies was visible with the naked eye. This 70-meter in diameter rock will revisit us again on April 3rd, 2026. Please don't forget April 2nd is National Geology Day, so don't forget to Rock and get a orogeny, watch those slickensides as you subducted for the day! Governor Kathy Hochul declared the week of March 13th Flood Safety Awareness Week. This is an annual campaign New York conducts in partnership with the National Weather Services to educate New Yorkers regarding the hazards and protective measures associated with local and regional flooding. Remember, spring is here, and the rain is coming.

To end this letter as usual, a quote: "There is new life in the soil for every man. There is healing in the trees for tired minds and for our overburdened spirits, there is strength in the hills, if only we will lift up our eyes. Remember that nature is your great restorer." – Calvin Coolidge, 30th President of the United States of America (July 1924).

Calvin K. Prothro; P.G., CPG
President CNYAPG

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2023 CNYAPG Elections

The 2022-2023 CNYAPG Officers and Board of Directors:

President	Vice President	Secretary	Treasurer		Associate Vice President	
Calvin Prothro	Sean Pepling	Will Hackett	Gerry Gould		Curt Lindy	
Director	Director	Director	Director	Director	Director	Director
Lynnette Mokry	Keith White	Nate Kranes	Bill McCune	Dana Himmel	Justin Stroup	Guy Swenson

Positions shown in red are up for election in April 2023.

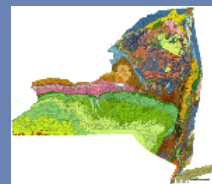
During April 2023, all active members will receive a link to an online ballot. Alternatively, votes may be cast in-person at the May 3, 2023 Dinner Meeting.

Candidate Biographies:

Edward J. Ashton, PG, STS, Geologist III - EA Science and Technology (Candidate for Director)

I have 30 years of experience including serving as a project manager, deputy project manager, task manager, project and field geologist, site and office safety officer, erosion and sediment control inspector, construction manager, and field team leader. Scope of work has included preliminary assessments, feasibility studies, Resource Conservation and Recovery Act (RCRA) facility and remedial investigations, underground storage tank removals, petroleum spill emergency responses, hazmat team member responses (operations), remedial system installations and removals, cultural resource investigations, various types of audits (U.S. Environmental Protection Agency compliance, asbestos, confined space, radiation, lead-based paint, and hazardous waste storage compliance), geophysical surveys, various methods of groundwater and soil sampling, perfluorooctanoic acid (PFOA)/perfluorooctane sulfonate (PFOS) investigations, subsurface modeling and evaluations, complex cross-section preparation, performance hydrogeologic tests (i.e., slug tests, percolation tests, pump tests, etc.), stormwater pollution prevention plans (SWPPPs) preparation, SWPPP compliance inspections, radiological surveys of facilities and the surrounding subsurface to identify potential remediation requirements, routine and green remediation system operations and maintenance, sediment sampling, bedrock investigations (including various methods of drilling, interpretation of logs, and designed well construction), field staff training, and construction management oversight. I also have worked in various states across the United States and has dealt with various regulatory agencies such as U.S. Environmental Protection Agency, New York State Department of Environmental Conservation (NYSDEC), and the Pennsylvania Department of Environmental Protection. Performed these tasks at commercial, industrial, state, and federal sites. Have written proposals; managed

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and set up multimillion-dollar projects; managed and directed subcontractors; prepared work plans, subcontracts, project safety plans, quality assurance project plans, sampling analysis plans, and cost estimates; conducted field-work and oversight activities; authored reports; and prepared and presented materials at meetings with regulators, clients, and the public.

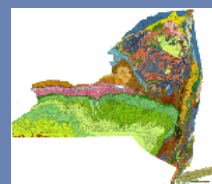
Olivia Botting, Consultant II, Geology - ERM (Candidate for Director)

My passion for geology started at a young age, first by collecting rocks over the years, then taking Earth Science in high school. I enjoyed the class so much, I knew Geology was the career for me. I received my Bachelor's degree in Geology and a minor in Spanish from the State University of New York (SUNY) at Oswego in 2018. Since graduating, I have worked at Environmental Resources Management (ERM) as a Staff Geologist for 4.5 years. I support site investigations and remediation projects with environmental testing, which includes groundwater, soil vapor, and soil gas sampling, logging soil, and monitoring sub-slab depressurization systems (SSDS). When I'm not in the field, I create comprehensive figures for reports and work plans with ArcGIS. I especially enjoy creating geographic cross-sectional figures with our field findings. When I'm not playing with rocks, you will find me dancing west coast swing or reading a book! If I was appointed to the Board, I would put my whole effort into supporting and promoting the Central New York geoscience community.

Tim Daniluk, PG, Principal Consultant, Hydrogeologist – ERM (Candidate for Director)

I grew up on a dairy farm in Camillus, NY and graduated from SUNY Brockport in 2009 with a Bachelor's degree in Earth Science with a concentration in Water Resources. While at Brockport I interned with the Research Foundation and collected field measurements of water levels in monitoring wells, differential stream gauging, and analysis of a sink hole in the karst environment in the LeRoy, NY area. I then received my MS in Geology from Syracuse University, completed my thesis on stream restoration (Surface water-groundwater interaction at restored streams and associated reference reaches. *Hydrological Processes* 2012), quantifying vertical flux through the hyporheic zone using a heat transport model and analyzing geochemical cycling in restored streams compared to their reference reaches. While at Brockport I taught surface water hydrology and assisted with hydrogeology at the University of Missouri's Branson Field Camp in Lander, WY in 2010 and 2011. I began my professional career in 2011 as a staff scientist at ERM in Syracuse and have worked in oil and gas, power, manufacturing, pharmaceutical, Department of Defense, and chemical sectors in that time. My primary focus is hydrogeology, having conducted and analyzed hundreds of aquifer tests. I have been managing projects across the US for ERM over the past 6 years, with a significant focus on PFAS related issues. I am a lover of history, especially the Civil War era. In my free time I have become an Adirondack 46er and enjoy mountain biking, spending time with my lovely wife, playing competitive beach volleyball, and managing and pitching for a 22+ baseball team on weekends. I have also done injections, bedrock coring, in-

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stalled countless wells, soil, sediment, surface water, and groundwater sampling.

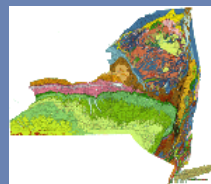
**Will Hackett, PG, Project Manager, Parratt-Wolff, Inc.
(Candidate for Secretary)**

Originally from Tully, New York, I moved back to the Syracuse area following completion of a BS in Geology at St. Lawrence University and a MS in Geology at the University of Vermont. As an environmental consultant, I spent five years at GES and one year at AECOM before moving over to Parratt-Wolff where I have been a Project Manager for seven years. I am a PG (NY) and a licensed well driller in NY, VT, NH, RI, and CT. If elected, this will be my third (and final, due to term limits) term as the CNYAPG Secretary. I live in Tully with my wife and two sons, who mark the sixth generation of the family to live in our farmhouse.



Erosion of Tertiary volcanic ash deposited over 300 square kilometers has formed an exotic landscape. Relatively soft ash has allowed 4,000 years of human carving of dwellings, churches, etc. in the formations. (photo courtesy of Guy Swenson)

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2023



CNY EARTH SCIENCE STUDENT SYMPOSIUM

HOSTED BY THE SYRACUSE UNIVERSITY GEOLOGY GRADUATE ORGANIZATION

SAT. APR 15, 2023 9 AM - 5 PM



KEYNOTE SPEAKER

**DR. JENNIFER
MCINTOSH**

UNIVERSITY OF
ARIZONA

**Heroy Geology
Laboratory**

141 Crouse Dr.

Syracuse University

OPEN TO THE PUBLIC!

Graduate, undergraduate,
and high school students
involved in Earth Science
and related disciplines
are invited to present a
poster or 15-minute talk

Please join us for a day-long event
featuring:

- Student research presentations
- Public lecture from keynote speaker
- Career Fair
- Breakfast and lunch provided
- Registration fee for non-SU (\$5)



To register and/or submit an
abstract for a presentation,
scan the QR code
BY March 31, 2023

For any questions, please email:
Sam Nesheim at
snesheim@syr.edu

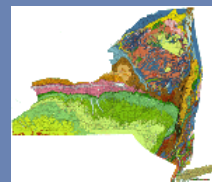
A Call for Abstracts!

For any questions about the event later this year, or about submitting abstracts for presentations, please contact John Nadeau at 518-579-6580 or at jnadeau@nyscpg.com
The New York State Council of Professional Geologists Presents

GEOLOGY DAYS CONFERENCE 2023

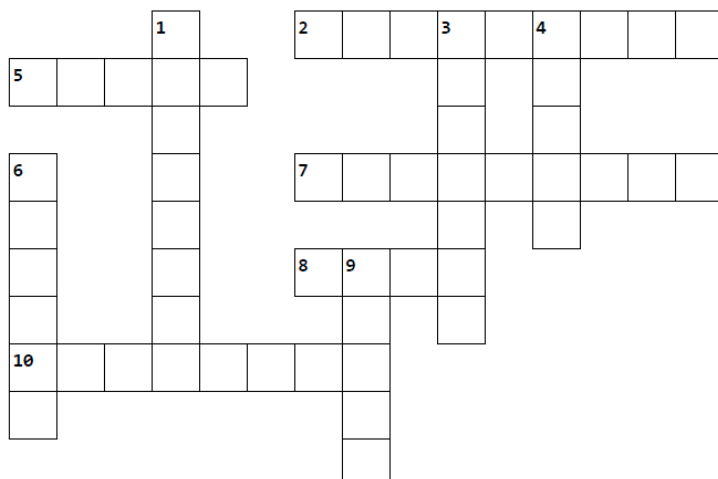
**Saratoga Springs, NY
November 13th - 15th**

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Crossword #8



Across

- 2. Plateau to the south of CNY
- 5. Middle Eastern groundwater adit
- 7. Hamlet's best txt
- 8. Rock salt chemical symbols
- 10. Structure carrying water over a valley

Down

- 1. Smallest of the Finger Lakes
- 3. Gem and color precious on 3/17
- 4. Sulphuric acid
- 6. Pertaining to Spring
- 9. Boeheim's successor

Crossword courtesy of Lewis McCaffrey (solutions on last page)

NEW YORK STATE COUNCIL OF PROFESSIONAL GEOLOGISTS

NYSCPG Presents

Geology Rocks 2023

The Coliseum, White Plains, NY
Thursday, April 13th, 2023
Doors open at 6:30 pm

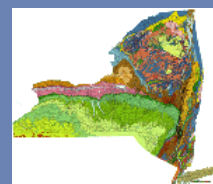
Following the 2022 Geology Rocks event, NYSCPG will host its Third music-themed fundraiser event featuring Dead Meat playing music made famous by the Grateful Dead. Shuttles from the Park and Ride in Melville off of the Long Island Expressway and the White Plains train station will be available.

Ticket Cost: \$150 (Includes food and beverages and shuttle access)
Sponsorship Opportunities Available

PURCHASE TICKETS HERE

For more information please contact
Michael Burke at mburke@langan.com or
John Nadeau at jnadeau@nyscpge.com

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Environmental Petrography Services

We characterize the mineralogy/chemistry, texture, structure, porosity, and organic matter content of rock, soil, or sediment to assist and enhance environmental investigation

- ❖ Optical Microscopy
- ❖ X-Ray Powder Diffraction
- ❖ Scanning Electron Microscopy
- ❖ Electron Probe Microanalysis
- ❖ Energy and Wavelength Dispersive Spectroscopy

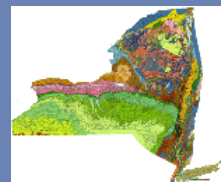
Geochemistry/Chemical Hydrogeology

We assist with evaluation techniques focused on the chemical properties of water and its interactions with rock, soil, or sediment as a complement to standard hydrogeology techniques, which typically focus on the physical properties and available quantity of water (i.e., flow paths/flow rates)

- ❖ Water Types/Hydrochemical Facies Evaluation
- ❖ Graphical Data Analysis/Mapping
- ❖ Geochemical Calculations/Modeling
- ❖ Statistical Analysis



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Upcoming Events

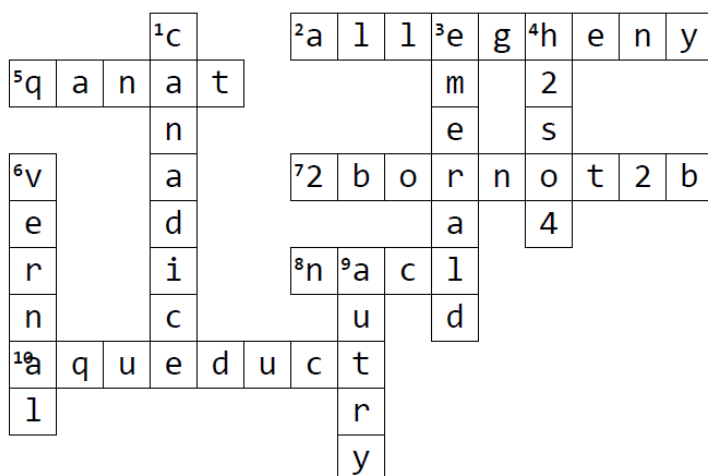
April 5 2023 7:00 PM– CNYAPG– Jean Patota—Your PG License and Tips to Keep It— Dinner Meeting—www.cnyapg.org

May 3 2023 7:00 PM– CNYAPG– Dr. David Finkelstein– Hobert & William Smith —Dinner Meeting—www.cnyapg.org

October 6 2023 – CNYAPG– Field Days!

November 13-15 2023 7:00 PM– NYSCPG– Geology Days— <https://nyscpge.wildapricot.org/>

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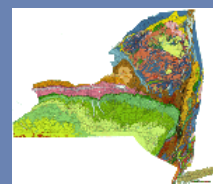
CNYAPG Governance

Membership Renewal

CNYAPG's membership period follows the CNYAPG meeting year from September through August. Renewals are due in September. To renew or become a new member, simply complete the membership form, available on our website at www.cnyapg.org. Membership is only \$25 per year and all money received is used in support of our organization.

Join CNYAPG at our social networking groups on [Facebook](#) and [LinkedIn](#). These sites (always under development) will provide online forums for discussion, as well as another way to inform our members and networking opportunities. For more information about our social media sites e-mail us at admin@cnyapg.org.

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