

CNYAPG Crossword Puzzle

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5 October 2022- 6:00 PM Dinner, 7:00 PM talk

Dr. Nicholas Metz (Hobart and William Smith Colleges) will present:

Rivers in the Sky: An Investigation of Atmospheric Rivers over the Northeastern US

Atmospheric rivers are long, narrow streams of water vapor in the atmosphere that are associated with large-scale mid-latitude regions of disturbed weather. These have been studied extensively along the west-coast of the United States and are responsible for much of their wintertime precipitation and many types of high-impact weather events in this region. This study is the first to provide a comprehensive examination of these atmospheric rivers in the northeast and was a collaboration with six summer research students. This presentation will reveal the ubiquity of these atmospheric rivers in the northeast and their relationship to precipitation, snowfall, weather warnings, and streamflow.

An application is pending with NYSCPG for this presentation to count for 1 NY PDH towards your NY-PG continuing education requirements

BOTH IN-PERSON and VIRTUAL options are available! Virtual registrants will receive Zoom login instructions the morning of 10/5/22 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

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).

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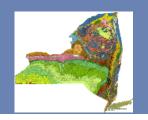
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President's Message-October 2022

Believe it or not, it is October already. The weather is starting to transition to fall, the trees are starting to present fall colors and we all are starting to feel that need to hunker down for winter. Despite the wet weather, I hope all of you will attempt to enjoy a hike or stroll through our local state parks and nature preserves before the rain turns to snow. To begin, I want to apologize to Derrick Pratt of the Erie Canal Museum for missing his talk on September 7th. I spoke with several attendees, and each came away with new knowledge of the history of the Erie Canal and how it was built. Thanks again, Derrick. This month CNYAPG will be hosting Dr. Nicholas Metz, Director of the NEPARS REU Program at Hobart and William Smith Colleges. Nicholas's talk, entitled: Rivers in the Sky: "An Investigation of Atmospheric Rivers over the Northeastern United States" will focus on the narrow streams of water vapor in the atmosphere that influence wintertime precipitation events in the northeastern United States. If you are interested in climate change or hydrology, this seems like a talk you don't want to miss. I hope you can all attend.

Speaking of climate change, October 9th thru October 15th will be International Earth Science week. The Geological Society of America (GSA) and American Geosciences Institute (AGI), along with various other entities are hosting events to promote geosciences and a sustainable Earth. AGI is promoting the theme of Earth Science for a Sustainable World which will emphasize the essential role of the geosciences in helping people make science-based sustainable decisions, which will make the world's environment strong and more sustainable for human civilization. Several local events are planned around central New York. Oh, just a reminder, on October 17th thru 19th, the New York State Council of Professional Geologists (NYSCPG) will be hosting its Geology Days Conference in Saratoga Springs. This is going to be a huge event with representatives from numerous environmental and geotechnical consulting firms, state and local agencies, college and university geoscience faculty, and vendors and suppliers from across the state. I hope to see you all there.

Other things in the geosciences that are going on that you may not be aware of and that demonstrate why geosciences are key to our survival: On September 26th NASA's DART (Double Asteroid Redirection Test) spacecraft completed its mission by plowing into the asteroid Dimorphos. To make an exceptionally long story short, DART will help humanity not go the way of the dinosaurs. Another recent study, published in the Proceedings of the National Academy of Sciences, seems to indicate that the current changes in the Earth's magnetic field may not be a precursor of an upcoming Magnetic polar reversal (lucky us), and the volcanologists studying the Taupo volcano in New Zealand raised the alert level from 1 to 0. Taupo which is rhyolitic in composition has a caldera over thirty kilometers wide with a freshwater lake sitting in it. According to the volcanologists who study it, its last eruption was around 260 AD, but it had a massive eruption around 26,000 years ago, and it was one of the largest volcanic eruptions in the geologic record.

As you know CNYAPG supports earth science student research projects with grants from its Earth Science Student Research program fund. CNYAPG's grants assist Earth Science students attending Central New York colleges and universities with their research and help them disseminate their research through conference attendance. We will soon be sending out a call for student

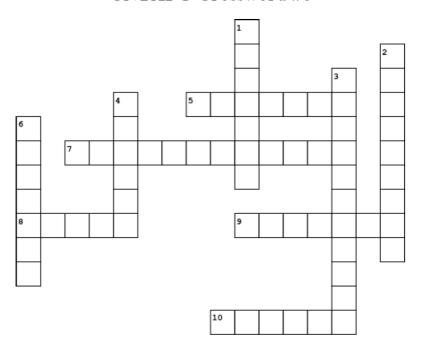
President's Message (Continued...)

proposals to central New York colleges and universities. If you are an educator in higher-Ed, keep an eye out for both our email call-out and for those students who are doing research in any of the Earth sciences. For more information on the grant proposal process, visit the CNYAPG website (www.cnyapg.org). Like all educators, encourage your students to be more and put themselves out there, and we look forward to reading those proposals.

Lastly, a quote I feel is fitting for the month: "Nothing great in the World has been accomplished without passion" — Georg Wilhelm Friedrich Hegel (Lectures on The Philosophy of History, 1837).

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

CNYAPG Crossword #6



Across

- 5. Deepest part of a fluvial channel
- 7. One level below 'Secret'
- 8. Metamorphosed shale
- 9. Big Red university
- 10. Relating to bears

Down

- 1. Origin of the Valley Heads deposit
- 2. Teddy Bear president
- 3. Coarse volcanic breccia
- 4. Dogs and a type of tooth
- 6. CNY county named for 4th president

Puzzle courtesy of Lewis McCaffrey

In response to reader request—the answers to the crossword will now be located on the last page of the same issue in which the puzzle appears.

The CNYAPG was founded in 1993 to strengthen and advance the geological sciences. CNYAPG conducts regular meetings on the third Wednesday of each month from September to May. Meetings feature dinner and distinguished speakers whose presentations invite comment and discussion.



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- Statistical Analysis





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www.cnyapg.org www.twitter.com/cnyapg

Upcoming Events

October 5 2022 7:00 PM- CNYAPG- Nicholas Metz- Hobart & William Smith Colleges —Dinner Meeting

www.cnyapg.org

October 17-19 2022 – NYSCPG– Geology Days

https://www.nyscpg.com/Geology-Days-2022

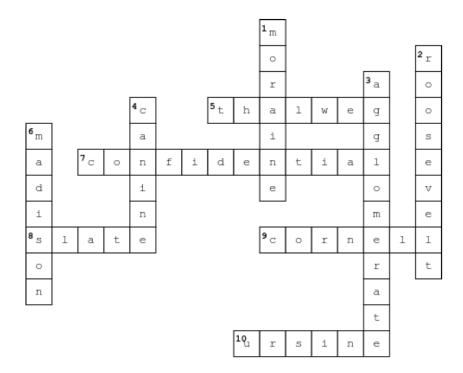
November 2 2022 7:00 PM- CNYAPG- David Barclay- SUNY —Dinner Meeting

www.cnyapg.org

December 7 2022 7:00 PM- CNYAPG- Tao Wen- Syracuse University — Dinner Meeting

www.cnyapg.org

CNYAPG Crossword #6 Answers



Puzzle courtesy of Lewis McCaffrey Answer Key– October puzzle

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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