

**CNYAPG
December 2021**



**Central New York Association
of Professional Geologists**

**Dr. David Valentino
(SUNY Oswego)**

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15 December 2021 Dinner Meeting– 6:00 PM

Dr. David Valentino (SUNY Oswego) will present:

Characterization of brittle deformation in Adirondack basement and the link to macroscopic features in the overlying Paleozoic strata

NNE striking oblique-slip faults divide the basement of the Adirondacks into several structural blocks. Mesozoic differential uplift of these blocks contributed to the rise of the Adirondack dome. These faults extend southward into the Mohawk Valley fault system that was active during the development of the early Paleozoic shelf, and reactivated during various Appalachian tectonic events. An E-W transect to systematically study faults and fracture systems in the Adirondacks was carried out across the massif from the interior to the western nonconformity with Ordovician carbonates. Similarly, fracture systems were documented in the basement along the northernmost and easternmost margins for comparison with macroscopic features that occur in the overlying Cambrian strata in those regions. This presentation will include three parts:

1. Examine faults in the basement from the interior to the western margin, kinematic analysis of those faults, and characterize fracture systems and mineralization that occur within the fault blocks;
2. Characterize macroscopic brittle deformation in the Ordovician strata that directly overlies the basement on the western margin, compare those results with brittle deformation in Cambrian strata that occurs along the northern and eastern margin of the basement;
3. Assess the link between brittle deformation in the basement and any link with similar features in the overlying strata.

This is an In-Person event. The following COVID-19 protocols will be in-place:

- 1.) All attendees MUST be fully vaccinated*
- 2.) Masks are to be worn when not seated*

Location: Spaghetti Warehouse, 689 North Clinton Street, Syracuse, New York
Time: 5:00 – 6:00p.m. social hour: 6:00-6:30p.m. dinner; 6:45p.m. technical presentation
Cost: Members: \$20 RSVP / \$25 at the door; Non-member \$30 RSVP / \$35 at the door
RSVP: By **December 10th** at <https://cnyapg.org/> or
Bonnie (Parratt Wolff) bolney@pwinc.com or (315) 437-1429

Next dinner meeting - January 2021

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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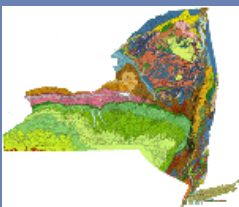
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President's Message– December 2021

Yes! We have made it to another holiday season and can see the end of 2021 on the horizon. I hope everyone had a safe and happy thanksgiving and got to see family and friends we couldn't visit last Thanksgiving. We had our first in-person presentation on November 17th at Spaghetti warehouse. It was truly great to see so many people in-person and to enjoy Dave Eckhardt's presentation of his Water well Drilling adventures in Tanzania. I have never been to Tanzania or any place else on the continent, but I think it will be on my bucket list now. Thanks a lot, Dave, it was worth the 20-month wait (Holy Hornfels! It had been 20 months since we were all last together!) Well, I hope all of you will take some time out of your busy holiday schedule to join us on December 15th to hear Dr. David Valentino from SUNY Oswego's Atmospheric and Geological Sciences Department. Dave's presentation is entitled: "Characterization of brittle deformation in Adirondack basement and the link to macroscopic features in the overlying Paleozoic strata". It should be good.

Because of the latest News on the covid-19 front, I want to reemphasize masking requirements during our in-person meetings. We have spoken with Spaghetti Warehouse regarding increased spacing of tables, and when not eating and drinking, mask-wearing is required (myself included). Let us all do what we can to create a safe and comfortable environment for everyone's enjoyment.

You all should be aware by now, starting January 1st all NYS licensed geologists will have to start accumulating continuing education credits. The New York State Council of Professional Geologists (NYSCPG) is currently the only agency authorized by the New York State Department of Education to approve Professional Development Hours (PDHs) for NYS-PGs. As part of providing those educational credits to NYS-PGs, we are looking for local geologists who would like to get a presentation approved for PDHs. To have a presentation/course approved a presenter must submit the following:

Outline of the course in sufficient detail to demonstrate the technical content of the material (a presentation on professional services of a company or firm do not qualify!).

Learning objectives (what you want the attendees to get out of the course).

A timed agenda (Syllabus) displaying the estimated time of the presentation for each segment of the course.

All presentation materials (PowerPoints, handouts, worksheets, etc.).

A Professional CV and/or resume for each instructor/presenter.

An assessment of learning in the form of an exam or questionnaire with a minimum of 3 questions that will be presented either during or at the end of the course.

If you are interested, please visit the NYSCPG website at (<https://nyscpg.wildapricot.org/Sys/Store/Products/273847>). This webpage includes

President's Message– December 2021 (continued...)

more details (evaluation parameters, instructions, fees, etc.) for applicants to have a course reviewed for PDHs. Applicants can submit a form requesting a review of their course and they will be emailed a copy of the application. The completed application must be sent to nyscouncilpg@gmail.com and then the course evaluators review the submitted materials. The review fee would be invoiced later before the final approval is provided to the applicant. If you have further questions, they can be submitted via the aforementioned e-mail address.

As noted last month, CNYAPG has contacted 21 public and private colleges and universities in Central New York to make them aware of our 2021-2022 Earth Science Student Research Grant. We have begun to receive student proposals and the review committee is looking forward to discussing the merits of each proposal. Please remember all submissions are due by December 10th. Again, I would like to remind you that the CNYAPG Earth Science student Research Grants will directly support student research and help disseminate that research through conference attendance. The winning student (s) will be awarded grants totaling \$1000 in combined value. If any of you would like to make a monetary contribution to the Student Research Grant fund it would be most welcome.

Last month I encouraged everyone to get out into the field. I took my OCC physical geology lab class to Clark Reservation, it was a little cold and a little wet, but they enjoyed it far more than sitting at a table in a building. With no leaves on the trees, outcrops are more visible, and whole hillsides are especially visible with a good pair of binoculars. Just be careful, explaining to a law enforcement officer why you are on the side of the road staring at a hillside with a pair of binoculars can sometimes be a little problematic. If you don't which to get out before the winter weather arrives, I invite you to engage your fellow geoscientists in other ways. You can post geologically related items to our Facebook or Twitter pages (just search for CNYAPG on Facebook or Twitter) and start a discussion.

Lastly, during this holiday season, please remember our fellow Americans who are not doing so well. Try to remember to give a little smile to a stranger, maybe a "Thank You" or a few dollars more in a tip. Shout "Happy Holidays!" to the neighbor you barely know. I think our communities, our nation, and our world could all use a little more kindness right now.

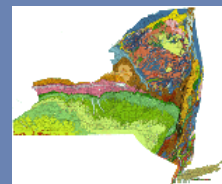
Have a safe and happy holiday season and I look forward to seeing you all on the 15th. As my custom, a quote. "Every accomplishment starts with the decision to try." – John F. Kennedy.

Season's Greetings!

Calvin K. Prothro, P.G., CPG.

President of CNYAPG

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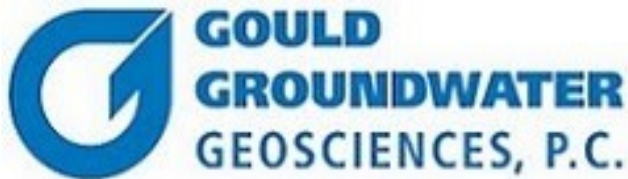
We characterize the mineralogy/chemistry, texture, structure, porosity, and organic matter content of rock, soil, or sediment to assist and enhance environmental investigation

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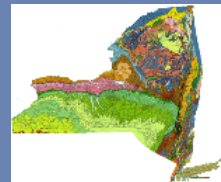
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We assist with evaluation techniques focused on the chemical properties of water and its interactions with rock, soil, or sediment as a compliment to standard hydrogeology techniques, which typically focus on the physical properties and available quantity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

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



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[www.twitter.com/cnyapg](https://twitter.com/cnyapg)

Programming Note & Upcoming Events

CNYAPG temporarily transitioned to a virtual Zoom platform beginning with the October 2020 meeting. Starting in November 2021, in-person meetings resumed with COVID-19 protection protocols in-place.

December 15, 2021 6:00 PM– CNYAPG– Characterization of brittle deformation in Adirondack basement and the link to macroscopic features in the overlying Paleozoic strata

Dr. David Valentino– SUNY Oswego

Dinner Meeting– www.cnyapg.org

January 19, 2022 6:00 PM– CNYAPG– *Topic TBD*

Dr. Robert Titus– Hartwick College

Virtual Meeting– www.cnyapg.org

February 16, 2022 6:00 PM– CNYAPG– *Topic TBD*

Dr. Robert Darling– SUNY Cortland

Dinner Meeting– www.cnyapg.org

March 16, 2022 6:00 PM– CNYAPG– *Topic TBD*

Mr. Andy Kozlowski– NYSGS

Dinner Meeting– www.cnyapg.org

April 20, 2022 6:00 PM– CNYAPG– *Topic TBD*

Dr. Paul Harnick– Colgate University

Dinner Meeting– www.cnyapg.org

May 18, 2022 6:00 PM– CNYAPG– *Topic TBD*

Dr. Rachel Lee– SUNY Oswego

Dinner Meeting– www.cnyapg.org



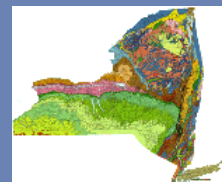
CNYAPG Governance

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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Central New York Association
of Professional Geologists

2022 Grant for Earth Science Student Research

**Up to \$1,000 Available
to Support Central New York Student Research**

The Central New York Association of Professional Geologists (CNYAPG) is accepting proposals for 2022 grants to support CNY student Earth Science research or to help disseminate Earth Science research through conference travel.

Eligibility: Two \$500 grants or one \$1000 grant will be awarded competitively to fund either undergraduate or graduate student research related activities or conference travel to present research. Applicants must attend a participating CNY college/university and be a student of good standing pursuing a degree in Geology or related science.

Proposal Due Date: Proposals must be submitted no later than **December 10, 2021**. *Applications should be sent to scholarship@cnyapg.org*

Criteria for Selection: CNYAPG will review and rank proposals based on the purpose, design, and impact of the research, funding purpose and budget, proposal quality, and general earth science interest. Notification of the awards will be made no later than February 16, 2022.

Procedures for Application: Applicants are required to submit a 1-2-page proposal including at a minimum:

Project title

Name of advisor

Statement of funding purpose

Project summary including:

- List of collaborators and PIs on project
- Base funding sources if any
- An abstract (no more than 200 words) explaining:
 - The purpose of the research (problem statement, hypotheses to be tested),
 - What has and what will be done (project design), and
 - The primary impact of the research
- Budget explaining how money will be used and timeline for work

Expectations for Recipients: Recipients of the CNYAPG student scholarship will be asked to share the results of their research at a CNYAPG meeting during the following year (2022-2023).

If you have any questions regarding this RFP, please email scholarship@cnyapg.org and include “student scholarship” in the subject.

CNYAPG is a not-for profit organization with the general mission to strengthen the geologic sciences as a profession in Central New York. Further details about CNYAPG can be found on our webpage: <http://www.cnyapg.org/>

Central New York Association of Professional Geologists (CNYAPG)

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