



GeoNews

Newsletter of the Association of Environmental & Engineering Geologists,
Carolinas Chapter

2009, 2011, 2013, 2016, and 2017 AEG Chapter of the Year

SUMMER 2022



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SAVE THE DATE

Upcoming Brewpub Social
Plus Mountain Biking
August 25, 2022
Greenville, SC

GEONEWS SUMMER 2022**Issue Date: August 3, 2022****TABLE OF CONTENTS****Articles and Reports****Carolinas Chapter Update***by Rick Kolb*3**Summary of the Madison County Geological Field Trip, May 21, 2022***by Jennifer Thomas*6**EPA Updates Drinking Water Standards for PFAS***by Adam Phillips*.....14**Columns and Regular Features****Carolinas Chapter Sponsors**.....17**Forms and Flyers****Calendar of Events**.....12**Sponsor Application**.....16**Thanks to our Sponsors!****GeoNews** is a publication of the Carolinas Chapter of AEG.

There are four issues per year, with deadlines and issue publication dates listed below. We publish news of the profession, announcements, student member news, technical articles, and job openings.

Deadlines for submittal to AE Carolinas GeoNews

(can be flexible depending on events)

Spring—deadline March 1, issue date March 21

Summer—deadline June 1, issue date June 21

Fall—deadline Sept 1, issue date Sept 21

Winter—deadline Dec 1, issue date Dec 21

Deadlines for submittal for the National AEG News:

March issue—January 15

June issue—April 15

September issue—July 15

December issue—October 15

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Carolinas Chapter Update

By Rick Kolb, Former Chapter Chair

The economy in the Carolinas is booming and the housing and rent prices along with it. Consequently, many consulting companies are hiring but we're not finding enough candidates in entry level and especially in the mid-range of experience. As a result, those of us employed are working more than we'd like, and those include **Jacob Hundl** and **Jen Thomas**, chair and vice chair of the Carolinas Chapter, both of whom were too busy to write a summary for this quarter's chapter update.

Our chapter was pretty much silent during the first year of Covid and into the second, as board members and chapter members and the rest of society came down with Covid, some more than once. We held our first meeting of Covid times in Greensboro on October 21st, set up by former chapter chair **Paul Weaver**. Our speaker was Heather Hanna, a forensic geologist. It was nice to see people again, though our attendance was less than half the usual for Greensboro meetings. As former regional directors, both Paul and I had ambition to hold chapter meetings in South Carolina (and ultimately set up a chapter there) but work and Covid got in the way and a meeting didn't happen until **Rich Anthony** in Charleston volunteered to set up his first-ever AEG meeting for February 17. Rich picked out a local microbrewery, Holy City Brewery, and we hosted Jahns Lecturer **Rick Wooten**. On arrival, we found the brewery was packed, but Rich had secured the meeting space in the mezzanine of the brewery so we were separated from the crowd. Unfortunately, word of the meeting did not get out to geology students at the College of Charleston, where Rick had made an afternoon presentation, so we had no students in attendance. Next time we will make sure students are notified.

Typically we hold our winter chapter meeting in Charlotte and we had it scheduled for January, but then the latest variant of Covid popped up so we pushed the meeting to March 17 and met at the U.S. White-water Center, a great venue where we had held our last pre-Covid chapter meeting in January 2020. Again, we had a new volunteer, chapter secretary **Jonathan Gerst**, set up his first meeting. At this meeting, as usual for Charlotte, we had attendance by many students from UNC-Charlotte and faculty members/longtime AEG supporters **Dr. John Diemer** and **Jake Armour**. Our speaker was again **Rick Wooten**. It's convenient when the Jahns Lecturer lives relatively nearby. Jonathan says he will organize a meeting this summer in Greenville, South Carolina, where he had recently set up a reunion for his high school graduating class, so he is familiar with the meeting venues.

Chapter field trip chair Rick Kolb set up our first field trip in 3 years for Saturday, March 26 to the White Plains Nature Preserve in Chatham County, just west of Raleigh, where we observed dacitic lavas and tuffs of the Carolina Terrane and Triassic-aged sedimentary rocks of the Deep River basin. The preserve is owned by the Triangle Land Conservancy and the weather was springtime perfect. **Phil Bradley** of the North Carolina Geological Survey led the field trip (as he has done several times in the past), assisted by **Emily Michael** and **David Grimley** of the survey. We held lunch at Carolina Brewing in Pittsboro (included in the registration) and a few of us may have had a beer. The field trip was good for 6 hours of continuing education credit, which most of us used to help meet the annual requirement of 12 hours for maintaining our geology license in North Carolina.

We held our spring chapter meeting on the 14th of April at Clouds Brewing in downtown Raleigh. We

Carolinas Chapter Update (continued from page 3)*By Rick Kolb, Former Chapter Chair*

have met there twice in the past, and had the patio pretty much to ourselves, and again the weather was perfect. Our speaker was **Rick Wooten**. We hope eventually to reach our usual pre-Covid meeting attendance of 90 to 100 in Charlotte and Raleigh and 50 in Greensboro, but we know this will take some time. Fortunately, our chapter sponsors help us in times when meeting attendance is low.

We held our second field trip of the year in western North Carolina, based at Big Pillow Brewing in Hot Springs, which is conveniently next to the Hot Springs Campground. Originally we scheduled the field trip for Saturday, May 14 but for a change the weather didn't cooperate so we had to move the trip to the following Saturday, May 21. **Bart Cattanach** of the North Carolina Geological Survey was the leader of this field trip, where we observed Mesoproterozoic igneous and metamorphic rocks and Neoproterozoic-Cambrian sedimentary rocks. The geology of North Carolina is quite complicated. Lunch was back at a food truck at the brewery. This trip also offered 6 hours of continuing education credit.

Brad Worley, our chapter's student liaison, restarted our Visiting Professional program this spring after being on hiatus during the past two springs of Covid times and virtual classes. He organized presentations in March and April at East Carolina University, East Tennessee State University, the University of South Carolina, Clemson University, UNC-Chapel Hill and -Charlotte, NC State University, Virginia Tech, and Appalachian State University. Our chapter started these presentations, typically with presentations by an environmental geologist, an engineering geologist, and a public-sector geologist, in 2007, prior to implementation of the program by AEG nationally. Almost half of our chapter's memberships are students, who can attend our meetings for free.

Rick Kolb led the third AEG webinar on January 27, 2022, "How to Prepare and Strategize for the ASBOG® Fundamentals of Geology Exam", with over 100 in attendance. Rick "recruited" three younger geologists as presenters – **Emily Michael** of the NC Geological Survey, **Kellen Kromm** of Northwest Geoscience, and **Hayley Irick** of Terracon. **Dr. Jason Patton**, past president of ASBOG, was also a presenter, and he helped answer the tougher questions. Based on the feedback of participants, these webinars are helpful for those planning to take the exam. We've had over 100 participate each time we've presented this webinar and plan to offer it again approximately 2 months before the next FG exam on October 1, 2022. If you'd like to be one of the presenters, contact Rick Kolb at rick.kolb1@gmail.com.



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Summary of the Madison County, NC Geological Field Trip on May 21, 2022

By Jennifer Thomas, P.G., Carolinas Chapter Vice Chair

On May 21, Bart Cattenach of the North Carolina Geological Survey led a field trip to Max Patch and Hot Springs in Western North Carolina. The trip had a bit of a rough start after being rescheduled from the previous weekend; though the dire rain predictions that caused us to postpone the trip had never really materialized.



We discussed and viewed outcrops of rift to drift sequences associated with the breakup of the supercontinent Rodinia in the Neoproterozoic age. These were later metamorphosed during the Neacadian Orogeny as Pangaea formed through the Late Devonian and Middle Carboniferous periods. This group overlies the older Max Patch granite and granodiorite.

Summary of the Madison County, NC Geological Field Trip
(continued from Page 5)



Summary of the Madison County, NC Geological Field Trip
(continued from Page 6)

The group enjoyed a hike to the top of Max Patch with its spectacular views of the Smokey Mountains as well as the Valley and Ridge Province of Tennessee where geology becomes carbonate rich.



Summary of the Madison County, NC Geological Field Trip
(continued from Page 7)



Summary of the Madison County, NC Geological Field Trip*(continued from Page 8)*

After stops featuring metasediments of the Wading Branch Formation and Roaring Fork sandstones and siltstones, it was back to Hot Springs for lunch. Full of tacos and beer from Big Pillow Brewing, we continued the trip with a tour of the Hot Springs resort and grounds. The naturally warm and clean water that earned the town its name has long attracted tourists for a soak. In addition to the main wells used to fill the soaking tubs, additional hot springs dot the property including some we saw (and felt) flowing directly into the French Broad River or forming nearby pools. Across the river from this spot, we could see caves in the Shady Dolomite with entrances from the water.

The formation of the natural geothermic springs requires water to penetrate to a depth of over 1,200 meters or 4,000 feet and ascend rapidly enough to retain heat acquired at depth.

Summary of the *Madison County, NC Geological Field Trip*
(continued from Page 8)

A possible explanation suggests that water enters the subsurface along the Dry Pond Ridge fault south of Hot Springs and descends north along the fault plane. The water is heated at depth and escapes through artesian wells in the highly permeable Shady Dolomite.

A final stop was originally planned but after the Hot Springs resort and grounds, the sky opened up and the weather was too wet to continue.



THIRD QUARTER CALENDAR OF EVENTS—2022

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated July, 2022.

Send updates/corrections to Rick Kolb, rick.kolb1@gmail.com

Meeting Date, Time, and Location are Subject to Change—Please Verify Prior to the Meeting

Date: Thursday, August 25, 2022

Event: Brewpub Social and Mountain Biking

Location: **Biking** - Gateway Park PBJ Trail System at 115 Henderson Dr, Travelers Rest, SC 29690

Beers—Swamp Rabbit Brewery and Taproom at 26 S Main St, Travelers Rest, SC 29690

Cost: Free

Details: Biking @5 Beers @7

Registration: Questions to Jonathan Gerst – jgerst@peakhydrogeologic.com

Date: September 23-25, 2022

Event: Carolina Geological Society annual meeting and field trip: Geology and Viticulture across the Blue Ridge Escarpment, from the Inner Piedmont to the Blue Ridge Plateau: How Rocks and Landforms Play a Critical Role in the Cultivation of Wine-Grapes in Polk, Henderson and Buncombe Counties, NC.

Location: No designated hotel; excursions will begin each day at Blue Ridge Community College in Flat Rock. Friday evening annual meeting will be at the Blue Ridge Community College Conference Center

Contact: www.carolinageologicalsociety.org

Presentation: tentative presenter is Jody Kuhne, North Carolina Department of Transportation

Registration: Go to www.aegcarolinas.org

Date: Late September 2022

Event: AEG Carolinas Chapter Meeting

Location: A location TBD in Asheville

Cost: \$40 for AEG members, \$50 for non-members, \$20 for public-sector employees and teachers; **free** for students w/ ID.

Details: 5:30-7:00 socializing, 7:00-8:00 buffet dinner; 8:00-9:00 speaker. *Registration will be \$5 more at the door.*

Date: Friday, October 7, 2022

Event: ASBOG FG and PG Exams

Location: McKimmon Center; Raleigh, NC

Contact: www.ncblg.org

Date: September 12-17, 2022

Event: AEG 's 65th Annual Meeting – “Geology in the Wild”

Location: Planet Hollywood Las Vegas Resort & Casino; Las Vegas, Nevada

Contact: www.aegannualmeeting.org

Date: September 19-24, 2023

Event: AEG 66th Annual Meeting – “Hazards in Hindsight...Lessons for the Future”

Location: Marriott Portland Downtown Waterfront; Portland, Oregon

Contact: <https://www.aegannualmeeting.org/future-aeg-meetings>

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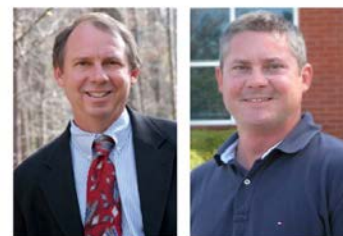
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EPA Updates Drinking Water Standards for PFAS


By Adam Phillips, Carolinas Chapter Newsletter Editor

Unless you've been living underneath a rock, you've likely read plenty of news about PFAS. PFAS has been the talk of the environmental industry for the past 5 or more years, dominating the media's attention when it comes to environmental contamination. "If we only knew then what we know now" - is resonating again when it comes to "useful" but hazardous chemicals that have found their way into so many consumer products and subsequently the environment.

In a long awaited announcement on June 15, the EPA released drinking water health advisories for 4 PFAS compounds. Two new PFAS compounds that are now regulated include GenX and PFBS, and EPA lowered health advisory limits on PFOA and PFOS. Also announced is \$1 billion available for grant funding, intended to combat PFAS and other emerging contaminants in drinking water (specifically in small or disadvantaged communities). The new Bipartisan Infrastructure Law aims to reduce PFAS in drinking water in communities facing the highest impacts. These funds are intended to be used in small or disadvantaged communities to address emerging contaminants like PFAS in drinking water. Funding will support programs such as technical education and assistance, installation of new treatment technologies and water filtration systems, and water quality testing.

Furthermore, EPA established lifetime drinking water health advisories for the four PFAS compounds. Additional sources of PFAS exposure are included, such as food, food packaging, many consumer products, and air. As PFAS research and understanding continues to evolve, the EPA is currently proposing a PFAS National Drinking Water Regulation that it hopes to establish in the fall of 2022.

Source: <https://www.epa.gov/newsreleases/epa-announces-new-drinking-water-health-advisories-pfas-chemicals-1-billion-bipartisan>



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Below is a quick breakdown of the exciting things happening at ES:



Added Inventory / Supplies:

Along with several items added to our growing inventory, here is a quick list of those specialty items that have been requested:

- Core Drill w/ water kit
- Hammer Drills
- Diaphragm Pumps
- Air-Sparge System (Pilot Testing)
- SVE System (Pilot Testing)
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The Carolinas Chapter of AEG supports many of its activities with financial assistance provided by our sponsors. Our activities include quarterly meetings, periodic field trips and seminars, a quarterly newsletter, and email announcements about our meetings and geoscience related activities. In addition, we donate large quantities of educational resources to science teachers.

We offer several levels of sponsorship, but they all have one goal: to keep the sponsor's name in front of our members and to bring you business. We have a real commitment to connecting our sponsors to potential buyers and will do all we can to help you build your business. Most of our members are practicing professionals with responsibility for selecting subcontractors, so our group is a great place to find new customers and to catch up with existing clients in an informal setting.

Our sponsors provide the financial support that allows us to have reasonably priced dinner meetings, host seminars, provide discounted dinner meeting costs for students and teachers, underwrite the cost of newsletters and our web site, provide geoscience mentors for students and young professionals, and support science education tools to our teachers and in our schools. All costs listed below are per year and end in December. New sponsorships received after October will continue to December of the following year.

Silver Sponsor (\$275):

GeoNews Newsletter: Business card size ad (2" high x 3-1/2" wide), four times per year.

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Meeting Exhibits: Space for tabletop display at one meeting. Cost of meeting waived for one person on the exhibit date.

Email Announcements: Listing of your company name on each AEG Carolinas Chapter email announcement (our email list is currently over 1,000 people)

Web Page: Acknowledgement on the AEG Carolinas Chapter Web Page, www.aegcarolinas.org, with a link to your site.

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Meetings: Listing on a Sponsor Poster, located at sign in table. Verbal acknowledgement by name in Chairman's introductory comments.

Meeting Exhibit: Space for tabletop display at three meetings. Cost of meeting waived for one person on the exhibit date.

Email Announcements: Listing of your company name on each AEG - Carolinas Chapter email announcement (our email list is currently over 1,000 people)

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Half Page	\$ 100.00
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