

GeoNews

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

2009, 2011, 2013, 2016, 2017, and 2020 AEG Chapter of the Year

SUMMER 2025



IN THIS ISSUE

- Meet Andrew Beaty—Carolinas Chapter’s New
Field Course Chair.....8**
- Upcoming Carolinas Chapter Board Elections....9**
- Synterra Donates Projector to AEG Carolinas...13**
- Carolinas Chapter Sponsors AGWT’s Upcoming
Mid-Atlantic & Carolinas Groundwater
Conference in August.....14**
- AEG Annual Meeting Virtual Day.....27**

SAVE THE DATES

- AGWT Mid–Atlantic & the Carolinas
Groundwater Conference, Raleigh, NC
August 12-13, 2025**
- AEG Summer Dinner Meeting, Asheville, NC
September 11, 2025**
- SCAEP & AEG Field Course, Moncks Corner, SC
September 13, 2025**
- AEG Field Course, Uwharrie National Forest, NC
October 11, 2025**
- AEG Fall Dinner Meeting, Greensboro, NC
October 17, 2025**

GEONEWS SUMMER 2025**Issue Date: August 11, 2025****TABLE OF CONTENTS****Articles and Reports**

Summary of the Deep River Field Course by <i>Colleen Ranieri & Rick Kolb</i>	5
Andrew Beaty Steps Up to Serve as Chapter's Field Trip Coordinator by <i>Colleen Ranieri</i>	8
Synterra Donates Powerpoint Projector to AEG Carolinas by <i>Rick Kolb</i>	13
AEG's Carolinas Chapter Sponsors AGWT's Upcom- ing Mid-Atlantic & Carolinas Groundwater Confer- ence by <i>Colleen Ranieri</i>	14
AEG Annual Meeting Virtual Day.....	27

Board Business

AEG of the Carolinas Board Elections in August.....	9
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Forms and Flyers

AGWT Mid-Atlantic & the Carolinas Groundwater Conference Announcement & Program.....	15
Summer Dinner Meeting in Asheville.....	21
SCAEP & AEG Field Course in Moncks Corner	23
68th Annual AEG National Meeting.....	26
AEG Field Course in Uwharrie National Forest.....	28
Fall Dinner Meeting in Greensboro	30
GWPNC Fall Mini-Con 2025	32
69th Annual AEG National Meeting.....	32
Calendar of Events.....	33
Sponsor Application.....	35

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 AEG Carolinas GeoNews

(can be flexible depending on events)
 Spring—deadline March 1, issue date April 21
 Summer—deadline June 1, issue date July 21
 Fall—deadline Oct 1, issue date Oct 21
 Winter—deadline Jan 1, issue date Jan 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

AEG Carolinas Chapter**Current Officers and Contacts**

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AEG Carolinas Chapter Website	www.aegcarolinas.org
AEG National Website	www.aegweb.org

Cover: Aftermath of Hurricane Helene at Lake Lure Dam along the Broad River Provided by Brendan Stepek with Schnabel Engineering South, P.C.

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LIGHTBOX

Deep River Rail Trail Field Course Summary

By Colleen Ranieri, Newsletter Co-editor, and Rick Kolb, Chapter Advisor

On Saturday, May 3, 2025, the AEG Carolinas Chapter held a successful field course with 41 attendees, led by Phil Bradley and Garrett Thompson from the North Carolina Geological Survey (NCGS). We had only 4 no-shows. The weather was a little muggy, but the cloud cover was nice. We had a bit of a hiccup at the start, when four of us were at the wrong trailhead for the hike, but we eventually all found each other and distributed all of the doughnuts, most of the bagels, and half of the coffee before the start of the hike.

Phil gave a great introduction of the site with lots of maps & a discussion of the historical geology. Phil explained the current hypothesis for the formation of the ca. 630-615 ma Hyco arc metavolcanics & the younger ca. 550-530 ma Albemarle arc metasediments. We then “island hopped” from rocks of the Hyco volcanic island arc to rocks of the Albemarle volcanic island arc as we traveled downstream along the Deep River.




Deep River Rail Trail Field Course Summary (cont.)

By Colleen Ranieri, Newsletter Co-editor, and Rick Kolb, Chapter Advisor



Along the way, we discussed the findings from recent NC Geological Survey mapping and age-date work in the area that led to improved hypotheses for the geologic history of the area.

One of our stops was at Faith Rock, a cliff face that towers over 50 feet above the Deep River. Legend states that in 1781, during the Revolutionary War, Patriot Andrew Hunter stole the mare of Tory leader Col. David Fanning and narrowly escaped to safety by riding the horse over the rock cliff and into the river. Faith Rock was named after the “leap of faith” Hunter took into the river to avoid a seemingly deadly fate at the hands of man. Locals fabled that the horse’s hoof prints were left in the rock from where it leaped.



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Deep River Rail Trail Field Course Summary (cont.)

By Colleen Ranieri, Newsletter Co-editor, and Rick Kolb, Chapter Advisor

At the end of the hike, attendee Andrew Beaty of Terracon expressed his interest in serving as Field Course Chair. An introduction to our new Field Course Chair can be found on page 10. After the field course, about 15 people met up at Thirsty Skull Brewing in Siler City for lively conversation and refreshing cold beverages.



Andrew Beaty Steps Up to Serve as Chapter's Field Course Coordinator

By Colleen Ranieri, Newsletter Co-editor

Andrew Beaty, P.G., a Senior Staff Geologist at Terracon in Charlotte, North Carolina, has volunteered to serve as our chapter's **Field Course Coordinator**. Andrew is from Gastonia, North Carolina and attended school at UNC Charlotte. He graduated with a BS in Geology in 2017 and has since then been working in the geotechnical consulting industry. He is licensed in North and South Carolina. Andrew currently manages commercial geotechnical projects and assists with some DOT projects for Terracon from their Charlotte office.

Andrew replaces Rick Kolb, who has been serving as Field Course Coordinator since the chapter was revived post-Covid in 2021. *From newsletter contributor to Chapter Chair to Regional Director, Rick has served the Carolinas Chapter in various capacities for over two decades. Thank you, Rick!!!* At our recent Deep River Rail Trail Field Course in Franklinville, North Carolina, Andrew approached Rick to express interest in serving. Now as Rick takes another step into retirement and toward the beautiful Rocky Mountains of Colorado, Andrew eagerly advances into the position guided by Rick's knowledge and experience.

The major responsibilities of the Field Course Coordinator are:

- ♦ to work with the Chapter Board to schedule Chapter field courses that provide professional development hours to licensed professional geologists (with a goal of two field courses per year)
- ♦ to select and secure the field course topic, location, and leader (usually a licensed practicing Geologist who is familiar with North/South Carolina geology)
- ♦ to work with the Chapter Secretary to send out announcements of each field course

If you are interested in leading a field course, contact Andrew Beaty via email at:

andrew.beaty3@gmail.com



AEG Carolinas Chapter Board Elections in August

Would you like to be involved more with the AEG Carolinas Chapter?

Each year, our chapter holds elections for the four board positions: **Chair, Vice Chair, Treasurer, and Secretary**. The Chair serves a 2-year term and the other three positions are for 1 year. The former Chair serves for 2 years as Past Chair and remains on the board, so it comprises five geologists. Our recent Chapter Chair, Jonathan Gerst, stepped down from the role this past winter. **All four board positions are open for the running**. Our chapter will hold elections for all four board positions in **September**—so be on the lookout for your ballot!

We also have other committee member roles including **Newsletter Co-editor, Newsletter Contributor, & Chapter Meeting Coordinator** that are **open. And can be taken up at any time**. Please see the descriptions for each open role below. If you have any questions or would like to fill one of these roles, please email the current chapter Vice Chair, Laura Elliott, at laura.rob.elliott@gmail.com.

Chair: The Chapter Chair shall preside at all meetings of the Chapter Board and has the general powers and duties of management of the Chapter. The Chair shall be responsible to the Board, shall see that the Board is advised on all significant matters of this Chapter's business, and shall see that all orders and resolutions of the Board are carried into effect. The Chair shall be empowered to act, speak for, or otherwise represent this Chapter between meetings of the Board and shall be responsible for keeping the Board informed of all matters affecting the Chapter. The Chair shall coordinate with the Southeast Region Director (currently Hawkins Gagnon) and at a minimum, submit to the Region Director a Chapter Report at least 30 days prior to each year's Mid-Year and Annual Board of Directors' Meetings. The Chair shall ordinarily be succeeded by the previous Vice Chair. In the event that the previous Vice Chair is unable, unwilling, or unfit to serve as Chair, the Chair shall be elected by the members pursuant to the Chapter election procedures. The term of office for the Chapter Chair shall be 2 years with the option to run for additional two-year terms.

AEG Carolinas Chapter Board Elections in August (cont.)

Vice Chair: In the absence or disability of the Chapter Chair, and subject to any limitations imposed by the Board, the Vice Chair is appointed to and shall perform all the duties of the Chair. When so acting, the Vice Chair shall have all the powers of, and be subject to all the restrictions upon, the Chair. The Vice Chair shall have such other powers and perform such other duties as from time to time may be prescribed for him or her by the Board or the Chair. The term of office for the Chapter Vice Chair shall be a minimum of 1 year but they will ideally serve for at least one 2-year term so as to be prepared to succeed the Chapter Chair at the end of the Chair's term of office.

Treasurer: The Treasurer shall keep and maintain, or cause to be kept and maintained, full and accurate books and records of accounts of the Chapter's properties and transactions, including accounts of its assets, liabilities, receipts, disbursements, gains, losses, capital and other matters customarily included in financial statements. The Treasurer shall send, or cause to be sent, to the Chapter Board and AEG Headquarters such financial statements and reports as are required to be sent by law, by the Bylaws of AEG or by the Board. The Treasurer shall (a) deposit, or cause to be deposited, the Chapter's funds and other valuables in the name and to the credit of the Chapter with such depositaries as may be designated by the Board; (b) disburse, or cause to be disbursed, the funds of the Chapter as may be ordered by the Board, taking proper vouchers for such disbursements; (c) render, or cause to be rendered, to the Chair and the Board, whenever requested, an account of all transactions entered into as Treasurer and of the financial condition of the Chapter; and (d) have such other powers and perform such other duties as may be prescribed to him or her by the Board. The treasurer shall also submit the Chapter Financial Statement to AEG Headquarters the annual financial report for the Chapter as soon as possible of the start of each new year but by the end of February at the very latest. The term of office for the Chapter Treasurer shall be 1 year with the option to run for additional one-year terms.

AEG Carolinas Chapter Board Elections in August (cont.)

Chapter Secretary: The Secretary shall keep, or cause to be kept, the minutes of all meetings, proceedings and actions of the Board and any committees thereof. The minutes of meetings shall include the time and place that the meeting was held; whether the meeting was regular or special and, if special, how it was authorized; the notice given, if any; the names of the persons present at the meeting; and the proceedings thereof. The Secretary shall, on the written request of any member, furnish to that member a copy of meetings minutes. The Secretary shall give, or cause to be given, notice of all meetings of the Board and any committees thereof. The Secretary shall also have such other powers and duties as may from time to time be prescribed to him or her by the Board or the Chapter Chair. The term of office for the Chapter Secretary shall be one year with the option to run for additional one-year terms.

Chapter Past Chair: The Past Chair shall be the immediate living past Chair of the Chapter. The Past Chair shall serve as an advisor to the Chair and the Chapter Board, and will be a voting member of the Chapter Board. The Past Chair will have other powers and duties as may from time to time be prescribed to the Past President by the Board or the Chapter Chair. The term of office for the Past Chair shall be equal to the Chair's term of office. The chapter's board of directors (BOD) is comprised of the chair, vice chair, treasurer, secretary, and past chair. The BOD makes all decisions for the chapter, with input from other non-BOD positions and other AEG members.

The following non-BOD positions are held by AEG Carolinas members:

Membership Chair: This position involves reviewing the membership lists sent to the Chapter by AEG Headquarters to see which chapter members have not renewed their membership for the year, then coordinating with the chapter board to contact the non-renewed members, find out why they haven't renewed, and attempt to get them to renew their membership.

AEG Carolinas Chapter Board Elections in August (cont.)

Chapter Advisors: Chapter Advisors are current members of the AEG Carolinas Chapter who have previously served in leadership roles within the Chapter, are not currently serving in an elected role on the Chapter Board, and are current members of the Chapter. The Advisors are asked to be advisors to the Chapter by the Chapter Board and serve in this capacity as long as they wish to do so or until they are asked to step down from the advisory role by the Chapter Board. The Chapter Advisors participate offer their input to the Board as appropriate. The Chapter Advisors are not allowed to vote on items requiring votes by the Chapter Board.

Newsletter Co-editor(s): This position involves coordinating the content and publication of the Carolinas Chapter newsletter, GeoNews, which is published electronically quarterly. The editor reaches out to potential content contributors and compiles all newsletter articles, flyers, and advertisements. The editor also attends virtual Carolinas Chapter Board meetings to collaborate with chapter chairs, and gives updates on newsletter progress.

Newsletter Contributor: Writes content for the newsletter (summaries of AEG events, geo-related news, or simply submitting advertisements for upcoming related events). This volunteer position helps keep our newsletter informative and interesting and is a way for someone with limited time to help.

Chapter Meeting Coordinator: Works with the Chapter Board to schedule Chapter meetings (usually one meeting per quarter), selects and secures a venue for each meeting, assists the Board in selecting a speaker for each meeting, and works with the Chapter Secretary to send out announcements of each meeting.

Social Chair: This position involves working with the Chapter Board to schedule Chapter social events (i.e.: meet-ups at breweries, sporting events, etc.) with a goal of at least two social events per year held in varying areas of the Carolinas, selecting and securing the social event location, and working with the Chapter Secretary to send out announcements of each social event.

Synterra Donates Powerpoint Projector to AEG Carolinas

By Rick Kolb, Chapter Advisor

The Cary office of Synterra has donated their Powerpoint projector to our chapter. We have used their projector at chapter meetings in venues that did not have a projector or where the venue would have charged us to rent their projector. Synterra staff determined that we had been the only user of the projector for several years and made the donation after we asked to borrow it again for the Wilmington meeting in July (which we cancelled due to lack of RSVPs). Thank you, Synterra!



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AEG's Carolinas Chapter Sponsors AGWT's Upcoming Mid-Atlantic & Carolinas Groundwater Conference August 12 & 13th

The AEG Carolinas Chapter and the DC/Maryland/Virginia (DMV) Chapters are teaming up to sponsor the American Groundwater Trust's annual Mid-Atlantic & Carolinas Groundwater Conference. AEG Carolinas members Marianne Link, Emily Hermann, Meredith Ambrose, and Colleen Ranieri will be in the booth, so stop by to say hello if you are at the conference! See the following pages for more details.



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Mid-Atlantic & the Carolinas Groundwater Conference

August 12 & 13, 2025

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Raleigh-Durham Airport Brier Creek

8021 Arco Corp. Drive, Raleigh, NC

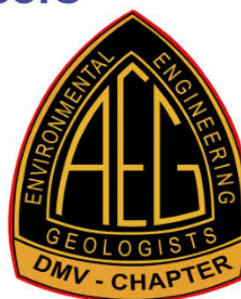
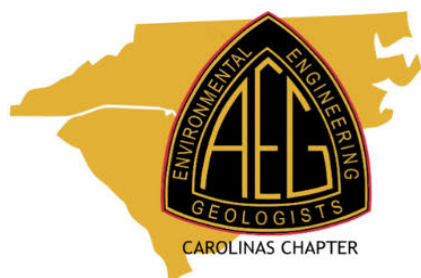
The objective of the AGWT Mid-Atlantic & the Carolinas Groundwater conference is to discuss groundwater issues specific to the region and to facilitate information sharing among landowners, groundwater end-users, regulators, management agencies, scientists, engineers, lawyers and citizens who have economic or environmental interests in water resources.

We are currently accepting abstracts for this program. Topics of interest include (but not limited to): groundwater monitoring, management and development. Please send abstracts and inquiries to Sara Chudnoff (sara@agwt.org).

CEUs will be available for self reporting licenses.

For more information visit www.agwt.org/events

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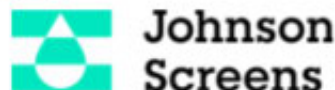
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PROGRAM

Groundwater Champions



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Welcome to the 2025 Mid-Atlantic & the Carolinas Groundwater Conference!

The objective of American Ground Water Trust conferences is to showcase topical and/or controversial groundwater issues and to facilitate information sharing among landowners, groundwater end-users, regulators, management agencies, scientists, engineers, lawyers, and citizens who have economic or environmental interests in water resources.

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Tuesday, August 12

7:30-8:30 am **Registration & Refreshments**

8:30-8:45 am **Welcome and Overview of AGWT**

Sara Chudnoff, Executive Director, American Ground Water Trust, Pinetop, AZ

8:45-9:30 am **Regional Complexity of Southeast-Gulf Coastal Plain and Subsequent Challenges In Resource Development and Management**

Richard Spruill, PhD, PG, Principal Hydrogeologist/President, Groundwater Management Associates, Inc

9:30-10:00 am **Wake County Groundwater Monitoring Network: Supporting Long-Term Water Resource Planning**

Mike Ranck, PG, Groundwater Program Manager, Wake County Government, Public Health/Onsite Water Protection, Raleigh, NC

10:00-10:30 am **Break**

Moderator TBD

10:30-11:00 am **The Importance of a "Living" and Evolving Hydrogeologic Site Conceptual Model**

Peter M. Thibodeau, PHD, PG, National Technical Leader, Hydrogeology, Stantec Consulting Services, Raleigh, NC

11:00-11:30 am **Simulating Compound Impacts of Climate Change and Sea-Level Rise on Coastal Shallow Aquifers: Uncovering Hidden Threats Beneath Our Feet**

Xixi Wang, Ph.D., P.E., Professor and Zhaoyi Cai, former Ph.D. student, Department of Civil and Environmental Engineering, Old Dominion University, Norfolk, VA

11:30-12:00 pm **Geothermal in Western Virginia – Exploring The Water Energy Nexus**

Kenneth Bannister, PG, Director of Geological Services, Koontz Bryant Johnson Williams, North Chesterfield, VA

12:00-1:00 pm **Lunch (provided)**

Moderator TBD

1:00-1:30 pm **Giving Geology Back to Our Communities: How Volunteerism Can (Re)Ignite the Flame of Your Geology Passion**

Jonathan Gerst, PG, Principal Hydrogeologist, Tryon, NC

1:30-2:00 pm **TBD**

Bubba Beasley, CPG, Geologist and Founder, HydroGeo Environmental, Charlottesville, VA

2:00-2:30 pm **Geophysical Methods for Groundwater and Environmental Site Characterization**

Nick Rebman, Geophysicist, Collier Geophysics, Raleigh, NC

2:30-3:00 pm **PFAS Occurrence and Mitigation Efforts at a Northern Virginia Fractured-Bedrock Aquifer Wellfield**

Bryant Mountjoy, PG, PMP, Project Hydrogeologist, Stantec, Ashland, VA

3:00-3:30 pm **Chasing the PFAS Plume and Rapid Response Management**

Johnsie Lang, PhD, Arcadis G&M of North Carolina, Inc, Cary, NC

3:30-4:00 pm **Rapid and Inexpensive Delivery of Particulate Carbon for In Situ PFAS Treatment in Groundwater**
Bonani Langan, PE, BCEE, Senior Environmental Engineer, GSI Environmental Inc., Austin, TX

4:00-5:00 pm **Reception & Networking**

Wednesday, August 13

7:30-8:20 am **Registration and Refreshments**

8:20-8:30 am **Welcome and Overview of Day 1**
Sara Chudnoff, PG, Executive Director, AGWT, Pinetop, AZ

8:30-8:50 am **Life-Cycle Analysis of a Water Well**
David Branham - Regional Director, Roscoe Moss, Kansas City, MO

8:50-9:35 am **Exploring Well Drilling Methods: Techniques, Tools, and Technologies**
Will Keyes, Business Development Manager, Terra Sonic International, Monroe, NC and Samuel Connelly, President, Connelly and Associates, Frederick, MD

9:35-10:05 am **Working With Your Contractor Pre Bid for a Successful Water Well Campaign**
Josh Davis, Account Manager, Layne (a Granite Company), Savannah, GA

10:05-10:30 am **Break and Exhibitor Introductions**

10:30-11:00 am **Down Hole Geophysics**
Emily Moren, Geophysical Engineer, Mt. Sopris Instruments, Denver, CO

11:00-11:30 am **Application of Efficient Gravel Envelope Well Design Techniques for Production and Recharge Wells**
Kevin McGillicuddy, PG, Chief Hydrogeologist, Roscoe Moss Company, Los Angeles, CA

11:30-12:00 pm **Aquifer Testing of New Water-Supply Wells: Data Analyses and Final Pumping Rate Selection**
James Holley, PG, Senior Hydrogeologist, Groundwater Management Associates, Inc., Greenville NC

12:00-1:00 pm **Lunch (provided)**

1:00-1:30 pm **Aquifer Testing of New Water-Supply Wells: Data Analyses and Final Pumping Rate Selection**
James Holley, PG, Senior Hydrogeologist, Groundwater Management Associates, Inc., Greenville NC

1:30-2:00 pm **Chemical Well Rehab**
Lynn Templeton, Southeast Sales Manager – Water Well, Johnson Screens, Columbia, SC

2:00-2:30 pm **Well Rehabilitation Start to Finish: Logistics, Planning, Data Collection, Execution, Chemistry and Follow up**
Steven Carl, President, Progressive Environmental Services, Gaffney, SC and Jim Bruneio, Director, AirBurst Technology, Oconomowoc, WI

2:30-3:00 pm **Well Rehab and Well Efficiency Case Studies**
Mike Whittaker, Southeastern Sales Manager, Cotey Chemical, Ft. Worth, TX

Registration Information

2025 Mid-Atlantic & the Carolinas - Raleigh, NC

August 12 & 13, 2025

Register online at agwt.org/events

Registration Overview

General Registration

2 Day Registration	\$450.00
2 Day Full-Time Student	\$100.00
1 Day Registration (Day 1 or Day 2)	\$245.00
1 Day Full-Time Student (Day 1 or Day 2)	\$ 50.00
AGWT/GWPNC/AEG Members (2 Day Registration)	\$425.00
AGWT/GWPNC/AEG Members (1 Day Registration)	\$220.00

Speaker Registration

Speaker (Day 1)	\$ 0.00
Speaker (Day 2)	\$ 0.00
Attend - Not Speaker (Day 1)	\$100.00
Attend - Not Speaker (Day 2)	\$100.00

Moderator Registration

2 Day Registration	\$400.00
1 Day Registration	\$200.00

Download of Presentations in PDF - attendees	\$ 30.00
Download of Presentations in PDF - non-attendees	\$100.00

Sponsor and Exhibit Opportunities - See our event webpage for more information or choose options(s) during on-line registration

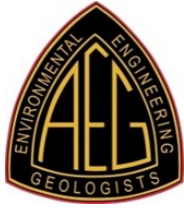
Checks should be made payable to AGWT

Mail to: American Ground Water Trust

50 Pleasant St., Suite 2

Concord, NH 03301

For questions please call: (603) 228-5444



Summer Dinner Meeting
The Carolinas Chapter of the
Association of Environmental & Engineering Geologists
Presents Guest Speaker:



Brendan Stepek, P.E.
Senior Engineer at Schnabel Engineering

PRESENTATION:

DAM PERFORMANCE AND EMERGENCY RESPONSE DURING HURRICANE HELENE: A CASE STUDY OF THREE HIGH-HAZARD DAMS IN WESTERN NORTH CAROLINA

MEETING DETAILS:

- Place:** Hi-Wire Brewing - Biltmore Village, 2A Huntsman Place in Asheville
- Date:** Thursday, September 11, 2025
- Time:** 5:30 PM socializing begins, 7:00 buffet dinner, 8:00 Brendan's presentation
- Cost:** AEG and ASCE members \$40, non-members \$50, educators and public-sector employees \$20, students **free** with college ID. *Cost will be \$5 more at the door (i.e., please pre-register).*
- Reservations:** Please make reservations with Jen Thomas by 6:00 PM on Monday, September 8. Pre-pay on the News & Events page of our chapter website -- www.aegcarolinas.org. Students can register for the meeting by an email to Jen Thomas at jen@jentecllc.com, or register online for \$1.
- CE's:** The NCBLG has pre-approved our chapter meetings for 1 hour of CE.

2025 Carolinas Chapter Summer Dinner Meeting in Asheville:

Dam Performance and Emergency Response During Hurricane Helene: A Case Study of Three High-Hazard Dams in Western North Carolina

Thursday, September 11, 2025

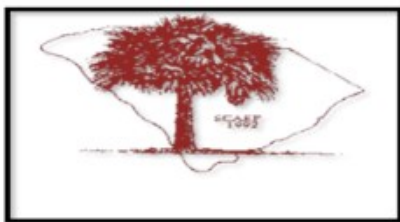
BRENDAN'S ABSTRACT

In September 2024, Hurricane Helene brought intense rainfall and widespread flooding to western North Carolina, creating significant challenges for dam owners, emergency responders, and community leaders. Nearly a year after the storm, we take a closer look at how three high-hazard dams — North Fork, Bee Tree, and Lake Lure — were affected and what their performance reveals about infrastructure resilience. Based on direct involvement in dam-safety operations during the storm, Brendan will outline the approach taken before, during, and after the event. The session will conclude with lessons learned and recommendations for enhancing dam resilience in the face of future, extreme, weather events.

BRENDAN'S BIO

Brendan is a Senior Engineer at Schnabel Engineering South, Inc. in Greensboro, North Carolina. He is a registered professional engineer with 10 years of experience in geotechnical, geostructural, and dam engineering. His dam-engineering experience includes the assessment, design, and rehabilitation of both concrete and earthen dams. Brendan received his B.S. in Civil Engineering from the University of Maryland and is licensed in North Carolina.





THE ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

CAROLINAS CHAPTER

AND

THE SOUTH CAROLINA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

Field Course to Explore the Geology and Civil/Environmental Engineering of the Jefferies Hydroelectric Generation Station, Coal Ash Pond, Old Santee Canal Park, and Fort Fairlawn Moncks Corner, South Carolina

Saturday, September 13, 2025 - 7:30 AM to ~5:00 PM

Field Course Leaders:

Melanie Goings, P.G., Santee Cooper

Adam Mims, MEM, Santee Cooper

- Event:** Field course to explore the geology and engineering of the Jefferies Hydroelectric Generating Station and Old Santee Canal Park in Moncks Corner, South Carolina.
- Details:** The tour of the hydroelectric station and lock system will be led by station personnel, who will provide a history of Santee Cooper; how the facility, dams, and dikes were built; and how they get their inflow. This discussion will include some of the geology and hydrogeology of the area (with maps) and how it was conducive to the facility.
- Location:** The field course starts at the Santee Cooper Corporate Complex at One Riverwood Drive in Moncks Corner and ends at the Old Santee Canal Park at 900 Stony Point Road in Moncks Corner.
- Cost:** \$30, includes bottled water, snacks, and a mid-day barbecue lunch in the Oak Room at the Interpretive Center at the park.
- Registration:** Register online at www.aegcarolinas.org/news. **Reservation deadline: 5:00 PM, Friday, August 29, 2025**
- Field Trip Waiver:** Please sign/date and return field trip waiver to Andrew Beaty at andrewbeaty3@gmail.com by September 5 or bring it with you to the field trip.
- CE Credits:** 6 hours for North and South Carolina geology boards.

**2025 AEG Carolinas Chapter
And
The South Carolina Association of Environmental Professionals
Field Course in Moncks Corner, South Carolina:**

*Field Course to Explore the Geology and Civil/Environmental Engineering
of the Jefferies Hydroelectric Generating Station, Coal Ash Pond,
Old Santee Canal Park, and Fort Fairlawn Moncks Corner*

Saturday, September 13, 2025

FIELD TRIP DESCRIPTION:

We will meet at Santee Cooper's Corporate Complex to ride share (limiting the number of vehicles going into the station. Then the first stop is the Jefferies Hydroelectric Station, where station personnel will describe the history of Santee Cooper, how the station, dams, and dikes were built, and how they get their inflow, etc. The tour will include the lock system for transport between Lake Moultrie and the Tail Race Canal (headwaters of the East Branch of the Cooper River). An overview of the geology and hydrogeology of the area (with maps) will be provided, and how it was conducive to the facility. The dam, locks, turbines, etc. will all be visible.

The second stop is the Ash Pond at Jefferies, which is currently being "closed" under the State Closure Plan approved by SCDES and under the guidance of the Federal CCR Rule by removing ash for beneficial use and landfill disposal. We will observe the ash pond, decant pond, and associated groundwater monitoring wells. Adam and Melanie will talk about the beneficial use of the ash, with further discussion about the geology of the site and the groundwater monitoring network for both state and federal regulations. Again, we will use maps and visuals for discussion, and then head back to the Corporate Complex to retrieve vehicles on the way to Old Santee Canal Park (OSCP).

A barbecue lunch will be set up in the Oak Room of the Interpretive Center at OSCP., Brad Sale, Director of the Park, will provide an overview and history of the Park, including all the attempts of a canal system (because the geology and water shed were advantageous) due to the bluffs providing a strategic advantage along the river; the artifacts, mineral and fossil collections at the park, and the kiosks around the park.

Brad will then lead a tour of Fort Fairlawn, where at about 3:00 PM participants will be able to use the Scavenger Hunt brochure for a self-guided tour of the remainder of the Interpretive Center, Berkeley Museum, and Boardwalks, which have outcrops of local geology. Canoes rentals are available for a small fee, and though a tour of the inside isn't offered, there is an Antebellum house -- the Stoney Landing House -- on the bluff overlooking the Tail Race Canal.



**2025 AEG Carolinas Chapter
And
The South Carolina Association of Environmental Professionals
Field Course in Moncks Corner, South Carolina:**

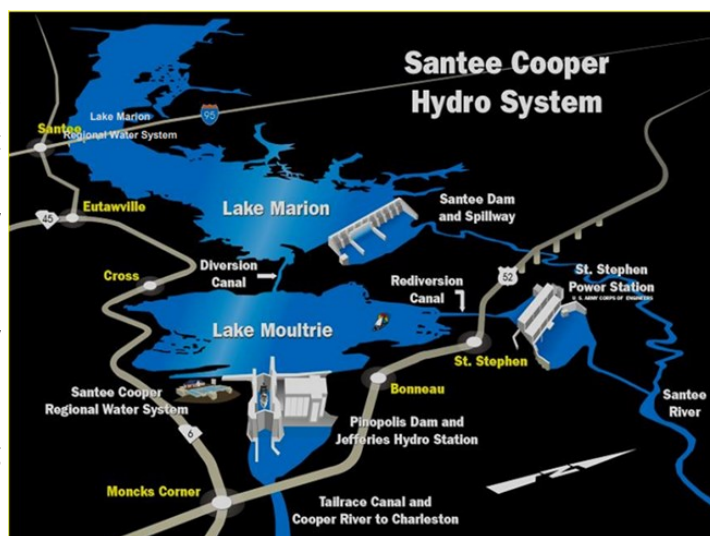
*Field Course to Explore the Geology and Civil/Environmental Engineering
of the Jefferies Hydroelectric Generating Station, Coal Ash Pond,
Old Santee Canal Park, and Fort Fairlawn Moncks Corner*

Saturday, September 13, 2025

BIOGRAPHIES FOR MELANIE AND ADAM:

Melanie, a graduate of the College of Charleston, practiced geology with a couple of environmental consultants (Geraghty & Miller (now Arcadis) and Sirrine Environmental Consultants (now AECOM) for over 10 years before joining Santee Cooper's Environmental Services. For almost 27 years, she's been responsible for state and federal groundwater monitoring, including both compliance and remediation. She also coordinates the company's UST Program, and has supervised and mentored many college students via the company's Environmental Intern, Summer Student, and Co-Op programs. Since both her children are grown, she and her husband enjoy spending time with their grandson, puppy dog, and family. The ability to travel experiencing new cultures, historic civilizations, and rocks, is their latest passion.

Adam, a graduate of Coastal Carolina University, practiced analytical chemistry and biology with General Engineering Labs for 3 years before joining Santee Cooper's Generation Fleet at Cross Generating Station's Analytical Lab. 7 years later, he moved into the Environmental Services CCR and Beneficial Use team. For the last 10 years, he has administered and managed Santee Cooper's CCR Beneficial Use program and provided project management over multiple CCR pond closures. During his 17 years with Santee Cooper, he has received graduate degrees in business management and environmental management from Charleston Southern University and Duke University. He also coordinates multiple continuous improvement projects to enhance current business processes and identifies other areas of potential improvement. When he isn't coordinating improvement projects, he is supporting Santee Cooper's community outreach programs to help educate and inform South Carolinians about Santee Cooper's role in South Carolina's energy and water sectors. When he isn't working, he enjoys time with his wife, dog, and cat. Both enjoy music, whether it's attending concerts or making their own





68TH ANNUAL MEETING

SEPTEMBER 2025



- 3 days of Technical Sessions & Symposia
- Field Courses
- Chicago River Cruise Special Event
- Student Networking Events
- Poster Sessions
- Sponsor & Exhibitor Opportunities

WESTIN CHICAGO RIVER NORTH

MARK YOUR CALENDAR : SEPTEMBER 22-26, 2025

www.aegannualmeeting.org

AEG 68th Annual Meeting Virtual Days

Monday & Tuesday, September 22-23, 2025

10:00 am to 4:00 pm (Eastern)

Do you need PDH but are not able to attend the annual meeting in Chicago? Join us for AEG's Annual Meeting Virtual Days. There will be TWO online only days of technical presentations for those that would like to participate in the Annual Meeting but are unable to attend. Registration for this event will be included with all Annual Meeting full and student registrations. Presenters for this session will receive a free virtual day registration. All presentations will be recorded for later viewing by registered attendees. Early registration discount ends August 15.

5.5 PDHs will be available for these sessions.

<https://www.aegannualmeeting.org/registration>



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THE ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

Carolinas Chapter

Field Course to Explore the Geology and Geomorphology of a Portion of the Southern Uwharrie National Forest in the Harrisville 7½-minute USGS Quadrangle of North Carolina

Saturday, October 11, 2025 - 9:00 AM to ~5:00 PM

Field Course Leaders:

Tyler Clark, P.G., North Carolina DEQ, Division of Water Resources

Kurt Waibel

- Event:** AEG Carolinas Fall Field Course to explore the geology and geomorphology of the southern portion of the Uwharrie National Forest, Harrisville 7.5-minute Quadrangle, North Carolina
- Details:** This will be a carpool-style field trip visiting six to eight stops in southern Montgomery County and northern Richmond County in the southernmost portion of the Uwharrie National Forest. Most stops will be road cuts right alongside the road and a few others will require short hikes of less than 500' into the woods. Some roads will be well-maintained, gravel-covered forest service roads. **NO 4-WHEEL DRIVE IS REQUIRED.** We will have our lunch break at the Town Creek Indian Mound State Historic Site in Mt. Gilead, which has picnic tables and restrooms. **Bring your own lunch.**
- Location:** Meet/park at Candor Elementary School, 414 S. Main Street in Candor.
- Cost:** \$25 for AEG members and their spouses/SO's and public-sector employees; \$35 for non-members; free for student members of AEG
- Registration:** Register online at www.aegcarolinas.org/news. **Reservation deadline: 5:00 PM, Wednesday, October 8, 2025**
- Field Trip Waiver:** Please sign/date and return field trip waiver to Andrew Beaty at andrewbeaty3@gmail.com by October 8 or bring it with you to the field trip.
- CE Credits:** 6 hours for North and South Carolina geology boards

2025 Carolinas Chapter Field Course in Uwharrie National Forest:

Field Course to Explore the Geology and Geomorphology of a Portion of the Southern Uwharrie National Forest in the Harrisville 7½-minute USGS Quadrangle of North Carolina
Saturday, October 11, 2025

FIELD TRIP DESCRIPTION:

The field trip will visit several spots of geologic significance in the Harrisville 7½-minute quadrangle. This area includes some outstanding exposures from several different geologic terranes and time periods, including meta-argillites of the Proterozoic-aged Carolina terrane, sedimentary rocks of the Late-Triassic-age Wadesboro sub-basin, massive Early-Jurassic-age diabase dikes (some of the largest in the Southeast US), and unconsolidated Coastal Plain sediments previously recognized as Middendorf and Pinehurst Formations. Time-permitting, we may also visit some unique historic sites related to North Carolina's role in the American Revolutionary War.

TYLER'S BIO:

Timothy "Tyler" Clark has worked in North Carolina as a geologist for 33 years. After completing his undergraduate work at N.C. State, he became a geologist with the North Carolina Geological Survey (NCGS), eventually becoming the Chief Geologist and Assistant State Geologist of North Carolina. During his tenure at the NCGS, Tyler completed a Master's degree at Duke University on the Durham sub-basin of the Deep River Triassic basin deposits of the eastern North Carolina Piedmont. Tyler volunteered his time as Secretary-Treasurer of the Carolina Geological Society for over 12 years, running the Society's 2011 field trip to examine Triassic rocks of the Sanford sub-basin of the Deep River Triassic basin. He also served as Chair of the AEG Carolinas Chapter in 2005-2006. After a 2-year relocation to Munich, Germany, Tyler returned to North Carolina as an earth science professor at Wake Tech Community College and Western Carolina University. In 2022, he joined the NC Department of Environmental Quality – Division of Water Resources as a Senior Hydrogeologist. In his spare time, Tyler hosts trivia shows at venues in the Raleigh area, and continues to conduct geologic research in NC Triassic basins.

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Fall Dinner Meeting

*The Carolinas Chapter of the
Association of Environmental & Engineering Geologists
Presents Guest Speaker:*



Joan Smyth, P.G., RSM

**Vice President/Senior Geologist, Smith Gardner, Inc.
Adjunct Professor of Geology, Appalachian State University**

PRESENTATION

LET'S TALK ABOUT PFAS IN LANDFILL LEACHATES

MEETING DETAILS

- Place:** Kau – Restaurant/Butcher/Bar, 2003 Yanceyville Street in Greensboro
- Date:** Thursday, October 17, 2025
- Time:** 5:30 PM socializing begins, 7:00 buffet dinner, 8:00 Joan's presentation
- Cost:** AEG members \$40, non-members \$50, students **free** with college ID
- Reservations:** Please make reservations with Rick Kolb by 6:00 PM on Friday, October 11th on the AEG Carolinas website: www.aegcarolinas.org/news. Students can make reservations on the website for \$1 or (for free) by sending an email to Rick at rick.kolb1@gmail.com.

2025 Carolinas Chapter Fall Dinner Meeting in Greensboro:

Let's Talk About PFAS in Landfill Leachates

Thursday, October 17, 2025

PRESENTATION SYNOPSIS

Per- and polyfluoroalkyl substances (PFAS) are a class of constituents of increasing concern and regulation. Among many other sources, PFAS constituents are found in landfill leachate, which is predominantly disposed of at wastewater treatment plants. PFAS concentrations in landfill leachates from across North Carolina were used in conjunction with wastewater treatment plant flows to determine the potential effect that different leachates have on the discharges at wastewater plants.

JOAN'S BIO

Joan Smyth is Vice President and Senior Hydrogeologist for Smith Gardner, Inc. based in Raleigh, North Carolina. Her focus is the solid-waste sector, and she provides consulting for landfill permitting and water-quality monitoring, assessment, and remediation. Her focus for the past 5 years has been emerging contaminants. She also serves on the North Carolina Board for Licensing of Geologists as the consulting industry's representative and is the AEG liaison for the Association of State Boards of Geology (ASBOG).



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GWPNC FALL MINI-CON 2025

Thursday
November 13th
10 AM - 7 PM



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SAVE THE DATE

September 13-19, 2026 | Westin Chattanooga

Association of Environmental & Engineering Geologists 69th Annual Meeting in the "Scenic City" of Chattanooga, Tennessee



The Westin is located in the middle of downtown and walking distance to local restaurants, attractions, boutique shops, and local breweries. After a day of sessions, enjoy southern cuisine at the hotel restaurant or the rooftop restaurant and bar. All rooms include large windows with views of the mountains or downtown.



The 2026 Annual Meeting will be filled with outstanding technical sessions, exciting field courses, and fun networking events.

SPECIAL EVENT



Tennessee River dinner cruise on the Southern Belle Riverboat. The highlight will be locking through Chickamauga Dam.

RIVERS, RAILS, ROADS & ROCKS



AEG | Chattanooga, TN

Moving Environmental & Engineering Geology Forward

CALENDAR OF EVENTS—2025

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated July 20, 2025

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

Dates: Tuesday & Wednesday, August 12 & 13, 2025

Event: American Ground Water Trust's Mid-Atlantic & the Carolinas Groundwater Conference

Location: Hampton Inn & Suites

Raleigh-Durham Airport Brier Creek,
8021 Arco Corporate Drive, Raleigh, NC

Details: Call for abstracts through Friday, April 25 for 30-minute presentations and 1-1½ hour panel discussions. <https://agwt.org/event/midatlantic-and-the-carolinas-groundwater-conference/>

CE credits: TBA, estimating 10 to 12 hours

Date: Friday, September 5, 2025

Event: Ground Water Professionals of North Carolina Annual Golf Tournament

Location: Bryan Park Golf Course,
6275 Bryan Park Road, Browns Summit, NC

Time: 7:00 AM-1:00 PM

Details/More Info: GWPNC LinkedIn page when available

Date: Thursday, September 11, 2025

Event: AEG Carolinas Summer Chapter Meeting

Location: Hi-Wire Brewing – Biltmore Village, 2A Huntsman Place in Asheville, North Carolina

Cost: \$40 for AEG members, \$50 for non-members, \$20 for public-sector employees and teachers; free for students w/ ID. Registration will be \$5 more at the door.

Details: 5:30-7:00 socializing, 7:00-8:00 buffet dinner; 8:00-9:00 speaker

Presentation: Dam Performance and Emergency Response During Hurricane Helene: A Case Study of Three High-hazard Dams in Western North Carolina

Speaker: Brendan Stepek, P.E., Senior Engineer at Schnabel Engineering South in Greensboro

Dates: Saturday, September 13, 2025

Event: AEG/SCAEP South Carolina Field Course

Location: Jeffries Generating Station and Generation Ash Pond, the Old Santee Canal Park, and Fort Fairlawn in Moncks Corner, South Carolina

Cost: \$30, includes bottled water, snacks, and a barbecue lunch

Details: Geology and environmental/civil engineering geology of the station, ash pond, and canal park. More detail is in the meeting announcement on the chapter website

Registration: Go to www.aegcarolinas.org/news

Dates: Tues-Sat, September 23-27, 2025

Event: AEG 68th Annual Meeting: Windy City Geology

Location: Westin Chicago River North, Chicago, IL

Details: <https://www.aegannualmeeting.org>

Dates: Thursday & Friday, October 2 and 3, 2025

Event: ASBOG FG and PG Exams

Location: The Prometric Testing Centers in North and South Carolina

Contact: www.ncblg.org and <https://llr.sc.gov/geo/>

Date: Saturday, October 11, 2025

Event: Fall Field Course to Explore the Geology and Geomorphology of a Portion of the Southern Uwharrie National Forest, Harrisville 7½-minute Quadrangle, North Carolina

Location: Southern Montgomery County and northern Richmond County

Cost: \$25 for AEG members/spouses/SO's and public-sector employees; \$35 for non-members, free for student members of AEG

Details: Field course overview starts at 9:00 AM at the parking lot for Candor Elementary School, 414 S. Main Street in Candor; field course ends at ~5:00 PM. Seven to eight stops

CE credits: 6 hours

Registration: Go to www.aegcarolinas.org/news/

CALENDAR OF EVENTS—2025

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated January 24, 2025

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: Sun-Wed, October 19-22, 2025

Event: Geological Society of American Annual Meeting – GSA Connects 2025

Location: San Antonio, Texas

Details: <https://community.geosociety.org/gsa2025/home>

Date: Thursday, October 23, 2025

Event: AEG Carolinas Fall Chapter Meeting

Location: Kau, 2003 Yanceyville Street in Greensboro

Cost: \$40 for AEG members, \$50 for non-members, \$20 for public-sector employees and teachers; free for students w/ ID. Registration will be \$5 more at the door.

Details: 5:30-7:00 socializing, 7:00-8:00 buffet dinner; 8:00-9:00 speaker

Presentation: Let's Talk About PFAS in Landfill Leachate

Speaker: Joan Smyth, P.G., RSM, Vice President, Smith-Gardner, Inc.

Date: Thursday, November 13, 2025

Event: Groundwater Professionals of North Carolina Fall Mini-Conference 2025

Location: Griffith Hall at Lenny Boy Brewing Company, 3000 South Tryon Street, Charlotte

Details: No cost. Conference is 10:00 AM – 7:00 PM.

Check out the GWPNC LinkedIn page for details -

<https://www.linkedin.com/events/gwpncspringmi7295155354848432130/about/>

CE credits: 6 hours

Date: Tuesday & Wednesday, April 28-29, 2026

Event: 2026 Emerging Contaminants in the Environment Conference (ECEC 26)

Location: I Hotel and Conference Center; Campaign, Illinois

Details: <https://publish.illinois.edu/emerging-contaminants-conference/>

Date: Sun-Sat, September 13-19, 2026

Event: AEG 69th Annual Meeting: Rivers, Rails, Roads & Rocks

Location: Westin Chattanooga; Chattanooga, Tennessee

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





AEG CAROLINAS CHAPTER – SPONSOR INFORMATION

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.

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

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.

Gold Sponsor (\$400):

GeoNews Newsletter: Quarter-Page ad (4-1/2" high x 3-1/2" wide), four times per year.

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

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

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

Platinum Sponsor (\$550):

GeoNews Newsletter: Half-page ad (4-1/2" high x 7" wide), four times per year.

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)

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

Titanium Sponsor (\$650):

Same as Platinum, but with a FULL PAGE ad in GeoNews. Limited to 2 Sponsors per year.

GeoNews Newsletter Sponsorship Only

Businesses or individuals can also advertise in GeoNews without being a full sponsor. The annual rates for advertising in GeoNews are as follows:

Business Card	\$ 40.00
Quarter Page	\$ 60.00
Half Page	\$ 100.00
Full Page	\$ 200.00

Please complete the form below and mail to Eric Cross, AEG Carolinas Sponsorship Chair. Please call or email if you have any questions (contact information below).

AEG Carolinas Chapter Sponsorship Form

Please begin our sponsorship of the Carolinas Chapter of the Association of Engineering Geologists. Our sponsorship level is:

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Something about your company (use back of page for more room) _____

Please enclose a business card or email ad in jpg, pdf, or doc to Colleen.Ranieri@NV5.com

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**** Sponsors will be listed on the AEG Carolinas Chapter Facebook Page! ****

Thank You Sponsors!

Thanks to our chapter sponsors, without which our meeting dinners would be more expensive, and we couldn't offer reduced rates for the public sector employees and teachers, and free dinners for students. Be sure to tell them thanks for supporting AEG and our profession!

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