

GeoNews

Newsletter of the Association of Environmental & Engineering Geologists, Carolinas Chapter 2009, 2011, 2013, 2016, and 2017 AEG Chapter of the Year

FALL 2021



IN THIS ISSUE

STAY TUNED

Charleston, Raleigh and Charlotte meetings Coming in 2022!

CSI Raleigh: Heather Hanna Presents Forensic Geology......9

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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

AEG Carolinas Chapter

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

Cover: Heather Hanna collecting evidence from a case in north Raleigh, with Kim Hutchinson (soil scientist now retired from NC State), a patrol officer who was helping with sample collection, an Assistant DA, and the detective.

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MESSAGE FROM THE EDITOR

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

AEG Carolinas is coming out of hibernation and starting up with in-person events again. We are now resuming regular publication of GeoNews. We have a new board with both new and familiar faces. This issue includes pictures on page 5. We look forward to seeing many people we haven't seen since the pandemic began and reconnecting in general. This issue has information about the upcoming dinner meetings in Greensboro and Charlotte. We want to get our South Carolina members more involved as well and plans are underway to hold meetings in Charleston and possibly Greenville.

I am filling in to publish this issue of the newsletter as we work to reboot and get back into our roles in AEG. Adam Phillips is slated to take over future issues.

As the pandemic recedes and the economy shifts, there appears to be a sharp uptick in demand for geoscience ser-

PYRAMID GEOPHYSICS

will win this scholarship if you meet the qualifications.

As North Carolina licensed geologists we are required to earn continuing education credits to maintain licensure. AEG presents opportunities at quarterly dinner meetings, classes, conferences and field trips to earn some of these credits, all of which are preapproved by the NC licensing board.

Sponsorships from last year will apply to this year since AEG Carolinas was largely inactive. We appreciate the support of our sponsors, which helps provide free dinner meetings to students and offset some of the costs of meetings. Please contact Eric Cross (eric@pyramidenvironmental.com) to renew your sponsorship for next year or become a new sponsor.

We need volunteers to help us plan fun and educational events. If you are interested in becoming more involved with the AEG leadership, the focus groups, or AEG in general, please contact me or other members of the Carolinas Board. Professionals, reg-

As always, your board and I look forward to hearing from each of you regarding your suggestions and/or concerns related to our Chapter. We are here to serve the needs of our membership, so your feedback is vital and welcome.

Landfill Geophysics Geotechnical Geophysics Geologic Hazards Geologic Mapping

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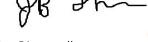
vices. Looks like it will be a busy and profitable year for all of us. Hopefully we can find time for socializing, networking, and continuing education. Finding balance and taking care of ourselves physically and mentally will also continue to be important.

Since it's been awhile, some things bear repeating. If you know

an undergraduate student studying geology, please let them know about the Carolinas Scholarship. The Scholarship board voted to increase the award to \$3,500, which should go a long way to support a deserving student. The money was not awarded this past year due to lack of applicants; odds are good you

ulators, and teachers are all encouraged and welcome.

Jennifer Thomas, P.G.



jen@jenntecllc.com

AEG Carolinas Chapter Vice-Chair and acting editor



AEG Carolinas Chapter Updated 3Q 2021 Treasurer's Report

By Walt Plekan, P.G., Carolinas Chapter Treasurer

AEG Carolinas Section Treasurer's Report July 1, 2021 through September 30, 2021

ALD:

BALANCE As Of July 1, 2021 Checking Account Savings Account

\$ 3,223.28 \$ 23,617.33 **\$26,840.61**

INCOME

Meetings

Misc -

Interest

Interest from savings 0.59

SUBTOTAL - INCOME \$0.59

EXPENSES

Fees

Meeting Expenses

AEG 2021 National Meeting Sponsor \$750.00 October Meeting Deposit \$300.00

Additional Expenses

Mail Chimp -email service \$62.97 Carolinas Scholarship

SUBTOTAL - EXPENSES \$1,112.97

BALANCE As Of September 30, 2021

 Checking Account
 \$ 2,110.31

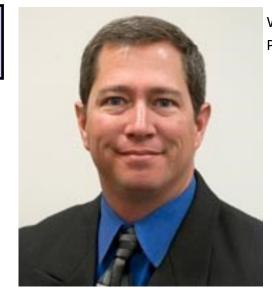
 Savings Account
 \$ 23,617.92

 TOTAL
 \$25,728.23

Our Board

By Jennifer Thomas

As we come out of the Covid-induced hiatus, I thought I would introduce this year's board members. We're starting up in-person events again and we'll be out and about seeing our members. You'll see some new faces and some familiar ones, perhaps in new roles. We are always looking for volunteers if you want to get more involved with AEG. In particular, let us know if you are interested in volunteering for the membership chair or social media chair as we need help with member outreach and field trip planning.



Walt Plekan, P.G., Treasurer

Jonathan Gerst, P.G., Secretary; no picture available



Jacob Hundl, P.G., Chair



Susan Averitt, P.G., Past Chair

Jennifer Thomas, P.G., Vice-Chair



A big thank you to the other volunteers! See Page 2 for the full list.





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A Few Pictures from the Annual Meeting

Jennifer Bauer and with Rick Wooten, this year's Jahns Lecturer





Carolinas Chapter members attending the meeting





Dinner Meeting

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



Dr. Heather Hanna, P.G. Forensic Geologist

PRESENTATION

"DIGGING UP THE DIRT ON FORENSIC GEOLOGY"

MEETING DETAILS

Place: Kau – Restaurant/Butcher/Bar

2003 Yanceyville Street, Greensboro, North Carolina 27405

Date: Thursday, October 21, 2021

Time: 5:30 PM socializing begins, 7:00 buffet dinner, 8:00 Heather's presentation

Cost: AEG members \$30, non-members \$40, students free with college ID

Reservations: Please make reservations with Paul Weaver by 6:00 PM on Thursday, October 14

email: pweaver@espassociates.com.

Dr. Heather Hanna's Bio

Heather Hanna is a forensic geologist specializing in the analysis of rock fragments and mineral grains in soils as trace evidence. Since 2009, she has been involved in multiple forensic investigations and has testified as an expert witness in four first degree murder trials, the first of which set a legal precedent in Wake County for using geochemical analysis of mineral grains in court. As a result of her forensic work, she has been an invited speaker at multiple law enforcement conferences and has also presented her casework at professional geology and soils science conferences. Dr. Hanna holds a Bachelor's from Ohio Wesleyan University; a Master's from Duke with a focus on igneous geochemistry; and a Ph.D. from the University of North Carolina Chapel Hill studying the chemistry and mineralogy of soils from San Cristobal Island, Galapagos. She is also a licensed professional geologist in the state of North Carolina and currently works as a forensic geology consultant.

Presentation Synopsis

The use of geologic materials in criminal investigations has been traced back to the mid-1800s, and even alluded to in the Sherlock Holmes novel, A Study in Scarlet. In the years since, forensic geologists have used geologic knowledge and methods to help solve a variety of legal and national security-related questions. This talk will explore a range of forensic geology applications, including whether a suspect may have been at a North Carolina crime scene; whether a death was a murder, accident, or suicide; helping solve the theft of valuable cargo; and unraveling the origins of the exploding balloons bombs of World War II.

Thanks to the Sponsors of the Carolinas Section of AEG

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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More Upcoming Chapter Meetings

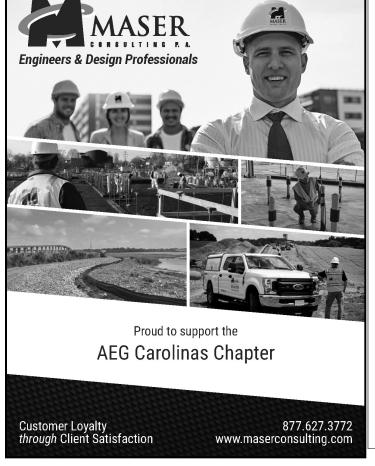
By Rick Kolb

Chapter Meeting Planned for Charleston for February 2022!

The Carolinas Chapter is planning its first (in memory) chapter meeting in Charleston next February. One of our chapter members in Charleston, Rich Anthony, volunteered to plan the meeting. We have a student chapter at the College of Charleston and recently exchanged emails with the faculty contact for the chapter so that we can arrange a daytime presentation at the college by Rick Wooten, the 2021-22 Jahns Lecturer. We hope to see a large contingent of students at this chapter meeting. Rick has five different talks to give as Jahns Lecturer and will be the speaker at the chapter meeting that evening. Since Rick lives in Asheville, we also hope to arrange a daytime presentation by him at the University of South Carolina since he will pass through Columbia on the way to Charleston. Details will be on the chapter website, and you will receive an email blast that announces the meeting.

Chapter Meetings Planned for Charlotte in January and Raleigh in April

Now that Covid has declined considerably and most of us are vaccinated, we will hold our January chapter meeting in Charlotte and the April meeting in Raleigh (dates to be determined). Jonathan Gerst, our newly-elected chapter Secretary, has started to plan this meeting. We hope to have the Charlotte meeting at the Whitewater Center, where we held our last, pre-Covid, chapter meeting in January 2020, and we expect the Raleigh meeting will be at a venue where we've never met. Our speaker at each of these meetings will be Jahns Lecturer Rick Wooten, and we plan to have him speak at UNC-Charlotte and either/both NC State and UNC-Chapel Hill during the days of our chapter meetings. Details will be on the chapter website, and you will receive an email blast that announces the meeting.





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Time for a Beer!

By Rick Kolb

The Carolinas Chapter held their first live event since our chapter meeting in Charlotte in January 2020. Social Chair Adam Phillips set us up on a picnic table at Lynnwood Brewing at 5:00 PM on Thursday evening and about a dozen people attended, including several non-members, and were there 'til after 8:00. Lynnwood has a wide range of beers (some still only \$5) and the nachos from the adjacent Wilson's Eatery were excellent! Based on requests from other AEG members, Adam plans to set up brewpub socials in the Triad and Queen City. You'll see an email announcement about those, and as usual, the announcement will be on our website, www.aegcarolinas. Here are some photos from the social in Raleigh. Thanks for attending!









Announcements

Carolinas Scholarship

Time to Renew Your AEG Membership!

You have probably received an email notice from AEG National that it's time to renew your membership. Although your current membership is good through the end of the year, we start the renewal process now. As a bonus, if you join now as a new member, your membership includes the remainder of 2020 and all of next year, so you can pay the member's price when you attend the chapter field trip on August 16th in Greensboro and our next chapter meeting in Greensboro on August 21st. Go to www.aegweb.org to renew your membership or join AEG.

Need Continuing Education Credits?

If you are a licensed geologist and need continuing education credits beyond those from AEG, the Interstate Technology and Regulatory Council offers dozens of FREE training classes each year. Their calendar for 2021 shows 11 classes between October 14 and the end of this year. The North Carolina Board for Licensing of Geologists has pre-approved their courses (Approval Code ITRC). For the list, go to http://www.itrcweb.org/training.

Field Trip

The field trip scheduled in Chatham County on October 16 was cancelled due to lack of sign ups. We will attempt to reschedule the trip for a later time.

In the Spring of 2022, the Carolinas Chapter of AEG will again be awarding an AEG Carolinas Scholarship to a deserving geosciences undergraduate student in North Carolina or South Carolina. Applications for the scholarship may be obtained at http://www.aegfoundation.org/funds/carolinas.php. The deadline for submitting the scholarship application is February 1, 2022, but we strongly encourage all interested students to start the application process by October, 2021 so they have time to pull together all the required information for the application prior to the submittal deadline. The amount of the scholarship for 2022 will be \$3,500.

The AEG Carolinas Scholarship was established in 2015 with initial seed money in the amount of \$10,000 from the AEG Carolinas Section (now the AEG Carolinas Chapter). The eligibility requirements for the scholarship are as follows:

Student must be an undergraduate geoscience major enrolled in a school in North or South Carolina.

Student must be an AEG Student Member.

Student must provide academic transcripts.

Student must provide an approximately 500-word essay that describes why they believe they deserve the scholarship and how they will use it (e.g., for tuition, field camp, books, etc.).

The scholarship application must be completed on the AEG Foundation website (www.aegfoundation.org) by February 1 of each year.

For anyone wishing to donate to the scholarship fund, donations can be made at any time on the AEG Foundation website at:

http://www.aegfoundation.org/pdf/AEGF%20Donation% 20Form.pdf





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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)
- Sewer Camera w/Locator
- Downhole Camera w/DVR
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CALENDAR OF EVENTS—2021

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated April 27, 2020 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: Saturday, October 16, 2021

<u>Event:</u> Geologic Hike of the White Pines Nature Preserve + bonus field trip

<u>Location</u>: Starts at the parking lot closest to the confluence of the Rocky and Deep rivers

<u>Cost:</u> \$50 for AEG members, \$60 for non-members, \$25 for students

<u>Details:</u> Field trip of the nature preserve 9:00 AM-1:00 PM; lunch on patio at the Carolina Brewing brewpub in Pittsboro (lunch/tea/soft drinks included in registration); bonus field tip after lunch to an old quarry on the shores of Jordan Lake to see andesites and felsic tuffs, and then a short walk to see outcrops of diabase and Triassic sediments

Registration: Go to www.aegcarolinas.org

Date: Thursday, October 21, 2021

<u>Event:</u> AEG Carolinas Chapter Meeting Location: Kau Restaurant/Butcher/Bar

<u>Cost:</u> \$30 for AEG members, \$40 for non-members, free for students

<u>Details:</u> 5:30-7:00 socializing, 7:00-8:00 buffet dinner; 8:00-9:00 speaker

<u>Presentation:</u> Heather Hanna, P.G., presents her talk, Digging Up the Dirt on Forensic Geology. Abstract her Heather's bio are on the chapter website. Registration: Go to www.aegcarolinas.org

Date: Thursday, October 21, 2021

<u>Event:</u> Final meeting of 2021 for the South Carolina Association of Environmental Professionals

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<u>Location:</u> British Bulldog Pub; Columbia, South Carolina (also on Zoom)

<u>Details:</u> Email H.W. Harter at hwharter@carbonservice.net

Date: October 20-22, 2021

<u>Event:</u> Clemson Hydrogeology Symposium – technical presentations on October 21, field trips on the 20th and 22nd not available

Early Bird Registration Deadline: September 20, 2021; online registration ends October 9

Cost: \$400; \$450 after September 20

<u>Location:</u> Madren Center at Clemson University; 230 Madren Center Drive, Clemson, SC 29631

<u>Details:</u> https://www.clemson.edu/cecas/departments/eees/symposium/index.html

Date: Thursday, November 4, 2021 (chapter meets

the first Thursday of each month)

<u>Event:</u> Engineers Without Borders chapter meeting, Research Triangle Park Professional Chapter

<u>Time:</u> 12:00 noon

Location: Zoom meeting

<u>Details/Registration:</u> register via: meetup.com/EWB-USA-RTP-Chapter/events/cbwwcsyccmbdb/

Date: December 6-8, 2021

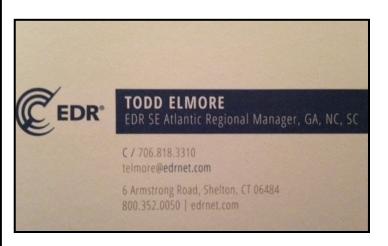
<u>Event:</u> Specialty Geotechnical Workshop for Dam & Levee Investigations & Modifications

<u>Details:</u> Two days of technical sessions, optional field trip on the third day

<u>Cost:</u> AEG members, \$450, non-members \$495, students \$100 (registration limited to 100)

<u>Location:</u> Westin Ft. Lauderdale Resort; Ft. Lauderdale, Florida

Contact: www.aegmeetings.org



Date: Friday, March 18, 2022

Event: ASBOG FG and PG Exams

Location: McKimmon Center, Raleigh, NC

Contact: www.ncblg.org

Date: January 2022 (date TBD)

Event: AEG Carolinas Chapter Meeting

Location: TBD

Cost: \$30 for AEG members, \$40 for non-members,

free for students

Details: 5:30-7:00 socializing, 7:00-8:00 buffet din-

ner; 8:00-9:00 speaker

<u>Presentation:</u> Rick Wooten, recently retired from the North Carolina Geological Survey. The abstract for his talk and bio will be posted on the chapter website.

Registration: Go to www.aegcarolinas.org

Date: April 7-8, 2022

<u>Event:</u> Annual Meeting of the Geological Society of America, Joint Meeting Southeastern and North-Central Sections

<u>Location:</u> Duke Energy Convention Center; Cincinnati, Ohio

<u>Details:</u> https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/nc/2022mtg/home.aspx

Date: May 23-25, 2022

Event: 71st Annual Highway Geology Symposium Location: Renaissance Hotel; Asheville, North Carolina

Contact: www.highwaygeologysymposium.org

Date: June 26-29, 2022

Event: 56th U.S. Rock Mechanics/Geomechanics

Symposium

Location: Santa Fe Community Convention Center;

Santa Fe, New Mexico

Details: https://www.armarocks.org/santa-fe-2022-

symposium/

Date: September 13-17, 2022 Event: AEG Annual Meeting

<u>Location:</u> Planet Hollywood; Las Vegas, Nevada <u>Contact:</u> <u>www.aegannualmeeting.org</u>

Date: September 19-24, 2023 Event: AEG Annual Meeting

Location: Marriott Portland Downtown Waterfront;

Portland, Oregon



MEMBERSHIP APPLICATION



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