

GeoNews

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

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

SUMMER 2018



IN THIS ISSUE

2018 Visiting Professionals Program......5

AEG-USC Meeting and Field Trip.....10

Southeast Regional Director Report14

SAVE THE DATE

AEG Carolinas Summer Meeting GenX in the Cape Fear River Clouds Brewing—Raleigh, NC August 2, 2018

2018 Annual CGS Meeting and Field Trip Boone, NC October 5-7, 2018

Thanks to our Sponsors!

GEONEWS SUMMER 2018
Issue Date: July 25, 2018
TABLE OF CONTENTS

Articles and Reports
AEG-USC Meeting by Sue Buchanan10
SE Regional Director Report by Paul Weaver14
Columns and Regular Features
Message from the Chair by Madeline German
Visiting Professionals 2018 by Rick Kolb
Greenville, SC Meeting by Anthony Herrmann1
Board Business
2 QT 2018 Treasurer's Report by Walt Plekan
4-18-18 Meeting Minutes by <i>Jennifer Thomas</i> 19
Forms and Flyers
Summer Meeting Announcement
Annual CGS Field Trip Announcement23
Calendar of Events2
AEG Membership Application28
Sponsor Application

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
Decemberissue—October 15

AEG Carolinas Chapter

Current Officers and Contacts

Chair Madeline German, P.G.

<u>maddie.german45@gmail.com</u> Vice Chair Susan Avritt, P.E., L.G.

Susan.kelly@amecfw.com

Treasurer Walt Plekan, P.G. Walt.plekan@aecom.com

Secretary Jennifer B. Thomas, P.G.

<u>jen@jenntecllc.com</u>

Membership Chair Anthony Hermann

Anthony.herrmann@hrpassociates.com
Student Liaison Rick Kolb, P.G.

Rick.kolb1@gmail.com

Social Media Co-Chairs Joanna Harbison

jharbison@shieldengineering.com

Rohit Warrier

rwarrier@geosyntec.com

Social Committee Chair Adam Phillips

aphillips@prismlabs.com

Field Trip Chair Rohit Warrier

<u>rwarrier@geosyntec.com</u>

Chapter Sponsor Co-Chairs Eric Cross, P.G.

eric@pyramidenvironmental.com

Rebecca Deal

RDeal@harthickman.com
GeoNews Editor Joshua Hanks, P.G.

josh@dunckleedunham.com

Advisor Jennifer Bauer, P.G.

jennbbauer@gmail.com Advisor Gary Rogers, P.G.

grogers@schnabel-eng.com

Regional Director/Past Chair Paul Weaver, P.G.

pweaver@espassociates.com

AEG Carolinas Chapter Websitewww.aegcarolinas.org

AEG National Website <u>www.aegweb.org</u>

Cover: Cape Fear River in Wilmington, NC; photo from https://www.wilmington-nc.com/cape-fear-river.html

Disclaimer: © 2018 Association of Environmental & Engineering Geologists—All Rights Reserved. Views expressed in this publication are not necessarily hose officially representing the Association of Environmental & Engineering Geologists except where expressly stated.

MESSAGE FROM THE CHAIR

By Madeline German, P.G., Carolinas Chapter Chair

Greetings Carolinas Chapter!

On April 19th in Raleigh, North Carolina AEG partnered with ASCE to present North Carolina Brownfields Eastern District Supervisor Sharon Poissant Eckard, PG, who presented "Opportunities in the Brownfields of Dreams & Brews". Approximately 80 professionals, students and regulators were present at Trophy Tap and Table to enjoy the talk. Also, 5 students from Wake Tech, UNC Chapel Hill and NC State presented posters for the group. \$100 was raised by the group as a donation to the Carolinas Scholarship Fund.

Also, in April AEG hosted 2 social gatherings. The first was held on Tuesday, April 24th in Charlotte at Old Mecklenburg Brewery. In Greenville, South Carolina AEG joined with SCAEP and Pace to provide one free drink for attendees at our first Greenville, SC social. It was well attended and we are looking forward to many more excellent networking events in South Carolinas future.

We are presenting a dinner meeting in Raleigh on Thursday, August 2nd, where attendees will earn 1 CEU for attending the talk on GenX. This is a "hot topic" today and we think it is helpful to present multiple views and have a venue for discussion. Heather S. Kennealy and Edmund Woloszyn, Jr. will both be presenting on this important topic. Dinner meeting details are provided on PAGE ### (josh to add).

Please remember to submit your ballots this summer for Regional Director. This is a critical role in the passage of information from the National Board to the local Chapters. Additionally, if you are interested in participating in AEG at a national level, please speak with me about committee and focus group roles.

The Annual Meeting will be held in San Francisco this year September 15 to 23, 2018. This is the first international AEG meeting held in the US. A field trip on Wednesday is included with your registration cost this year. The early bird registration discount ends August 1st, so register soon.

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.

Maddie German, PG maddie.german45@gmail.com AEG Carolinas Chapter Chair



AEG Carolinas Chapter Updated 2Q 2018 Treasurer's Report

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

AEG Carolinas Section Treasurer's Report April 1 - June 30, 2017

	Of January 1, 2018		Zanna
Checking			\$4,709.14
Savings A	ccount	_	\$18,594.21
INCOME		-	\$23,303.35
Meetings			
	April Meeting		\$2,580.00
	March Field Trip/Meeting		\$1,670.00
Sponsors			
	2018 Annual Chapter Sponsors		400
Interest			
	Interest from savings		2.32
SUBTOTA	L - INCOME		\$4,652.32
EXPENSES			
Fees			
	Bank fees		21.94
	Card reader fees		23.68
	Paypal fees		99.11
Meeting E			
	April Meeting		\$2,543.13
Additional	Expenses		
	Annual Meeting Sponsorship		\$750.00
	Board Meeting Travel Reimbursement		\$499.22
	Visiting Professional		\$919.61
SUBTOTA	L - EXPENSES		\$4,856.69
BALANCE As	Of June 30, 2018		
Checking		\$	4,502.45
Savings A	ccount	\$,
TOTAL			\$23,098.98

College Visits in 2018 of the Visiting Professionals Program

By Rick Kolb, P.G., Duncklee & Dunham

Since 2007, practicing geologists from the Carolinas Section (now Chapter) have made presentations at colleges and universities in North and South Carolina, Tennessee, and Virginia. We started these visits on our own volition and eventually AEG formalized the program, calling it Visiting Professionals and encouraging chapters and sections to participate. This past spring semester, engineering and environmental geologists from the private and public sectors, from the Carolinas Chapter and some non-members, made presentations on geology careers to students in the geology departments at UNC-Charlotte and -Chapel Hill, Clemson University, East Carolina University, North Carolina State University, Furman University, and Wake Tech. As usual, we brought along pizzas and soft drinks as an inducement for students to attend and learn about some of the types of geology careers that are out there. Our chapter sponsors provide the funding to pay for the pizza and soft drinks, and we appreciate their support.

We couldn't do these presentations with volunteers. This year, our volunteers included Susan Avritt of The Wood Group (formerly Susan Kelly of MACTEC/Amec/Amec Foster Wheeler); Kristin Hill

Solid Waste
Water & Wastewater
Surveying & Mapping
Site Development
Funding Assistance & Grant Administration
Bidding / Contract Admin / Construction Observation

Garner, NC
Boone, NC
www.mesco.com
1-800-278-6132

of S&ME; Brad Adkinson, Susan Young, Sharon Eckard, Bonnie Ware, and Jocelyn Harriger of NCDEQ; Brad Worley of Summit Design and Engineering; Haley Hindes of Terracon; Jacob Hundl and the late John Stewart of ECS; Dave Duncklee, Kevin Kelt, Matt Flinchum, Josh Hanks (now with NCDEQ) and Rick Kolb of Duncklee & Dunham; Alexandria Kintner and Nick Moore of NCDOT; and Nathan Mohs of Infrastructure Consulting & Engineering.

The Carolinas Chapter thanks these volunteers for spending some personal time to make these visits. The Carolinas Chapter has almost 100 student members, and these presentations are the first exposure students have to AEG. We hope that as these students graduate and enter the work force, they will maintain their AEG memberships. The young members are the future of the association and our profession. Brad Worley of Summit will lead the chapter's VP efforts starting with the 2018/2019 academic year.







AEG Carolinas Dinner/Meeting

Legal and Technical Aspects of the GenX Issue

(We expect a crowd for this meeting; reserve early)

Thursday, August 2, 2018 Clouds Brewing, Raleigh

The Carolinas Chapter of the Association of Environmental & Engineering Geologists Presents

Guest Speakers:

Heather Kennealy and Ed Woloszyn



Heather Kennealy
Of Counsel, Law Offices of F. Bryan Brice, Jr.
Raleigh, North Carolina



Ed Woloszyn
S&ME
Raleigh, North Carolina



Meeting Details - Note the Times are Different from Past Meetings!

Place: Clouds Brewing, 126 N. West Street, Raleigh

Date: Thursday, August 2, 2018

Time: 5:00 PM socializing begins, 6:30 PM buffet dinner, 7:30 PM Presentations begin

Cost: AEG and ASCE members \$30; non-members \$40; public-sector employees, teachers, and gen-

eral public \$20, students <u>free</u> with college ID. Cost includes one drink ticket courtesy of Hazmat Emergency Response and Remediation (HERR) and SGS North America. Thanks to Al King

of HERR and Kendall Sutler of SGS!

Reservations: Please make reservations with Rick Kolb (rick.kolb1@gmail.com) by 5:00 PM on Monday, July

30, 2018. Attendees that walk in without an RSVP will be charged \$5 on top of the meeting cost. Beware that the meeting may sell out in advance, so make/pay for a reservation on our

website, www.aegcarolinas.org.

Abstract for the Presentations

Emerging contaminants are being targeted by environmental regulatory agencies. For those chemicals with scant toxicological data on the effects to human health, the regulatory community will take a conservative approach for establishing health goals or action levels, as well as implement stringent restrictions on the release of these unregulated chemicals that can be costly to manufacturers. One such emerging chemical is Gen-X, which is in a group of chemicals referred to as per- and polyfluoroalkyl substances (PFAS). Upon discovery of this unregulated chemical in drinking water plants along the Cape Fear River in North Carolina, Chemours was identified as the source of GenX. Chemours, and its prior parent company Du Pont, have a long-soiled history of contamination and litigation outside of North Carolina. In September 2017 that changed when the N.C. Attorney General filed its action against Chemours for releasing GenX into the Cape Fear River from its Fayetteville Public Works Facility. Subsequent class actions were filed by private citizens living in New Hanover and Brunswick Counties as well as a private action by the Cape Fear Public Utility Authority. Chemours also faces claims filed by homeowners near the plant whose groundwater has been contaminated, some of whom live upgradient from the plant, demonstrating the contaminant is also dispersing through the air. The goal of our presentation is to fully evaluate the science and toxicity of GenX, its present regulatory challenges and possible solutions, as well as to highlight the litigation currently going forward in state and federal courts in North Carolina.

Résumés for Heather and Ed

Heather Kennealy

Heather Kennealy is an attorney with 16 years of environmental law experience working for both private law firms and the federal government. Her litigation experience has involved class action, Multi-District Litigation and complex tort matters in state and federal courts. Mrs. Kennealy is serving as Of Counsel, and working on GenX matters, with the Law Offices of F. Bryan Brice, Jr. in Raleigh. Mrs. Kennealy also maintains her own shop (Kennealy Law Practice) in Hillsborough, where she focuses on smaller agricultural and land-use cases. She received her undergraduate degree in Public Health and Environmental Science from UNC-Chapel Hill and her law degree from Vermont Law School. Mrs. Kennealy holds a Master's in Environmental Law and is licensed to practice law in North Carolina and Massachusetts.

Ed Woloszyn

Ed Woloszyn is a Principal Scientist/Project Manager at S&ME's Raleigh office location with over 28 years of experience in environmental consulting. In 1985, Ed received his undergraduate degree from the College of Charleston in Marine Biology, earning an award for Outstanding Student in the Field of Marine Biology from The Navy League of the United States Charleston Chapter. His first career position was in analytical chemistry at General Engineering Laboratories. Ed then pursed and received a Master's of Science degree at North Carolina State University from the Department of Marine, Earth and Atmospheric Sciences in 1990. Ed continued his career at Westinghouse Environmental and Geotechnical Services working on CERCLA human health risk assessments and then moved on to project management at S&ME in 1993. Since then, he has managed compliance specialists, engineers, and industrial hygienists. Ed then transitioned his career to managing environmental contracts with the Department of Defense and with the State of North Carolina. Ed is currently responsible for multi-disciplinary engineering, industrial hygiene and testing services for the manufacturing industry.







ENVIRONMENTAL EQUIPMENT RENTAL & FIELD SUPPORT SERVICES

Eastern Solutions is an environmental rental and field service support company. Our inventory continues to grow with new and updated equipment and supplies. The equipment rental services offers free pick-up and delivery 90 miles from Charlotte (includes but not limited to Greensboro, NC; Greenville, SC; Columbia, SC), whether it's to an office or your job site. If you are outside the 90-mile radius, we offer free ground to and from shipping (equipment is shipped in plastic crates with pre-printed return labels inside). We'd like to thank all of our existing clients for their continued support and welcome any new clients. If you are interested in hearing more about Eastern Solutions, please let us know and we would be more than happy to come out and visit.

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
- ATV / UTV Rental (Coming in April)
- Sand, Bentonite, and 55-Gallon Drums
- Large Selection of Vapor Points
- Carbon (Vapor/Water)



New Support Services

Based on our client's requests to expand our support services, Eastern Solutions now offers the following (Please note these services are for existing rental clients only):

- Bushoging and Heavy Clearing (i.e. Forestry Cutter)
- Small Excavations and Trenching
- Silt Fence Installation
- Minor Storm Water Repair
- Downhole Well Camera w/DVR Service
- Sewer Push Camera w/Locator Service
- Field Personnel Support
- AS/SVE System Support and Installation
- Equipment Calibration and Repair Services

4543 Charlotte Hwy, Suite 8 Lake Wylie, SC 29710 Rentals@EasterSolutionsEnv.com Main Office: 803.746.5180

AEG-USC Meeting and Field Trip in Columbia, South Carolina

By Sue Buchanan, Schnabel Engineering (past Field Trip Chair)

Dr. Ali Tabrizi (Senior Staff Engineer, Schnabel Engineering, Greensboro, North Carolina) and Dr. Lindsey LaRocque (Assistant Research Professor, University of South Carolina, Columbia, South Carolina) hosted about 40 AEG members and students this past March 9-10, 2018. The basis of the presentation and field trip was their investigation and research of 14 earthen embankment dam failures in Lexington and Richland Counties, South Carolina, caused by flooding from Hurricane Joaquin, which dumped a measured 8.74 inches on October 3-4, 2015 (NOAA) in central South Carolina. All of these dams were considered failures because the dam no longer has retention properties and the reservoir has become a stream. The motivation of the research stemmed from Hurricane Katrina and continued understanding of the structural and economic effects from dam and levee failure.



Ali and Lindsey gave AEG members and students a tour of the University of South Carolina's hydraulics lab and explained how they set up large scale dam and levee breach models.



Gibson Pond Dam in Lexington, SC, along Twelvemile Creek. The concrete spillway gate structure and bridge are all that remain after the flooding event. Plans to reconstruct the dam are underway.

On Friday, March 9, the meeting was held at the Capstone Conference Center on the USC Campus. The 17th floor meeting rom provided a beautiful evening view of the USC campus while Ali and Lindsey presented on their research and provided attendees with a glimpse of the field trip stops. The goal of their research was to collect and analyze time-sensitive data on the earthen embankment failures immediately following the flood. Their investigation included 3 dams in Lexington County and 11 dams in Richland County where they collected the following data for analyses: measurement of breach dimensions, undisturbed soil samples, and soil classification. (Continued on Page 11)





Old Mill Dam in Lexington, SC along Twelvemile Creek. Scour along the left abutement of the earthen embankment and Old Mill Brewpub resulted in failure of the dam during the flood. The town would like to reconstruct the dam; however, budget and funds are determining the cost and timeframe of when reconstruction will commence.

(Continued from Page 10)

Using this data and available reservoir hydrologic information of the dams, Ali and Lindsey performed embankment erodibility tests using the submerged jet erosion test (JET) method, calculated peak discharge, estimated maximum height of overtopping, and calculated maximum reservoir volume behind each embankment at the time of failure. Notability, their sieve analyses indicated that the embankment soil type of the studied dams contained high amounts of sand making the dams more erodible. The dams plotted between moderately resistant to very erodible based on silt/clay vs. sand proportions. Their modeling, geotechnical data, and realtime dataset is being used to develop and validate single-variable and multivariable numerical breach models.

On Saturday, March 10, the field trip started at USC's hydraulics lab where we saw the dam and levee model built by Ali, Lindsey, and other USC students. Dam and levees were constructed 10 cm layers at a time with varying amounts of sand, and silt and clay. The layers were compacted to acquire

blow counts of about N=15 for each layer. Ali stated that changing the clay content from 6% to 12% caused a change in rate of failure from 3 to 20 minutes, indicating the importance of clay on erodibility of the structure. Ali and Lindsey ran many modeled dam and levee failures and used model software with videos of the lab-controlled failures to visually analyze data such as: where the breach occurred, the step-by-step geometry of the breach erosion, the rate at which the breach occurred, and the flow path of the water and debris during the breach event.

After the USC hydraulics lab tour, three dam sites were visited: Gibson Pond Dam, Old Mill Dam, and Lake Elizabeth Dam. These dams were constructed with an earthen embankment and concrete or rock spillway structure. Gibson Pond Dam and Old Mill Dam are located in Lexington, SC, along Twelvemile Creek. Lake Elizabeth Dam is located in Columbia, SC, along Crane Creek.

At the Gibson Pond Dam, during the flooding, attempts were made to raise the spillway gates, but the gates were rusted tight and the dam was eventually overtopped by flood waters. Erosion of the structure occurred along the concrete/earth contact. The earthen dam was completely removed and the concrete spillway, with bridge, still remains. The Town of Lexington will restore the dam, proposing a roller compacted concrete (RCC) structure and replacing or reusing the spillway gates.

The Old Mill Dam, which is downstream of Gibson Pond Dam, was one of the largest structures to fail, approximately 250 feet long and 20 feet tall with a

(Continued on Page 12)

(Continued from Page 11)

30-acre reservoir. The dam failed along a concrete wall on the left abutment which is adjacent to and supports the Old Mill Brewpub and restaurant building. Damage to the brewery occurred during the flood, all other structures and roadway were not damaged. The spillway gate was also not able to be raised during the flood and erosion along the left abutment occurred. This flood-control dam is likely to be rebuilt, but federal aid and town budget and funds is a large factor for when the new structure will be reconstructed. Currently, Twelvemile Creek is being routed through the dam's rock wall spillway so that further erosion of the embankment and damage to the Old Mill Brewpub does not occur.

Lake Elizabeth Dam was a dam with roadway structure that used to impound Crane Creek. Prior to the flood, two of the three spillway gates were inoperable. During the flood, the dam/roadway overtopped and scour occurred along the concrete/earthen dam contact. The dam will not be restored, and stream restoration and roadway reconstruction is currently in progress.



Flood damage to the Old Mill Brewpub along the left abutment of the dam resulted in structural damage to the first floor of the building, which has since been fixed, and sadly many beer kegs were swept away in the floodwaters.

Many thanks to Ali and Lindsey for hosting AEG members and students. Their presentation and field trip stops were very educational and relevant to several geology fields – hydraulics, geotechnical, engineering, and environmental. It was also great to have these AEG events in South Carolina! AEG continues to work hard at organizing field trips from the mountains to the sea because North Carolina and South Carolina have many places to explore! Remember to visit www.aegcarolinas.org throughout the year for upcom-

www.aegcarolinas.org throughout the year for upcoming meeting and field trip events.



Group photo from the AEG USC March 2018 field trip. AEG members, non-members, and studentsenjoyed the presentation and field trip hosted by Dr. Ali Tabriziand Dr. Lindsey LaRocque, and we thank them for sharing their research with us!

Alan King

HERR, Inc. Business Development (910) 640-2607 Work (910) 234-3172 Mobile al.king@herrteam.com 303 S. Maultsby Street Whiteville, NC. 28472 www.herrteam.com





Your TOTAL Laboratory Resource

We are an industry leading sampling and analytical testing company with **40 years of experience.**

We have the capacity, resources, and efficiency to ensure the best results for your projects.

Environmental Analytical Services

- Air Emissions/Stack Testing
- Drinking Water
- Groundwater Monitoring
- Hazardous Waste
- Toxicity Reduction
- Ecological Risk Assessments
- Non-routine Testing

Contact me to see how Pace can help!

Korey S. Drew

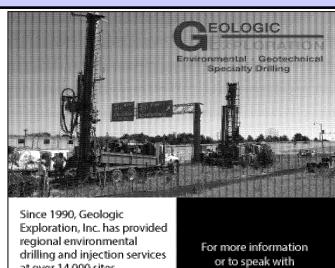
Senior Account Executive Pace Analytical Services, LLC.

704.315.8068

AEG Southeast Regional Director Report

By Paul M. Weaver, P.G., AEG Southeast (Region 8) Director

The following is a short review related to modifications to the AEG Governance Structure implemented in 2016. The AEG Board of Directors consists of the Executive Committee (Past-President, President, Vice President/President Elect, Treasurer, and Secretary). The rest of the Board consists of representatives from different regions of the country and from South Africa (AEG's only active chapter outside of the U.S.). Until 2016, the individual organized regional groups of AEG were called "Sections" and each section's chair was automatically a member of the AEG Board of Directors. Starting in 2016, what were formerly called "Sections" became "Chapters" and "Regions" were established which usually include several Chapters (formerly "Sections). The Region Director is chosen by a vote from all AEG members within that region with terms staggered between Directors so that there is always around one-third of Board members who have been a member of the Board for at least one year. I was elected to be the Southeast Region Director, and thus an AEG Board Member, in 2016 to serve the inaugural two-year term. The length of terms for Region Directors varied at the start to create the stagger, however from here on be three-year terms. I am now in my second and final year of my term and my tenure as Southeast Region Director will end prior to the Board meeting at the Annual Meeting in September in San Francisco. The Southeast Regional Director is responsible for the States of Florida, Georgia, South Carolina, North Carolina, and Tennessee. Currently, AEG has three Chapters within the Southeast Region: Atlanta, Carolinas, and Nashville.



Exploration, Inc. has provided regional environmental drilling and injection services at over 14,000 sites throughout the southeast and beyond. Based in Statesville, NC, we provide clients with the tools for success through our modern drilling fleet, uncompromising safety and quality, expert training and experience and superior customer service.

For more information or to speak with someone about your specialized needs for an upcoming project, please contact us at 704-872-7686

www.geologicexploration.com

The AEG Board of Directors holds in-person meetings twice a year: once at the Annual Meeting and once during the Spring (the Mid-Year Board Meeting or "MYBM"). Our MYBM this year was held on May 3 through 5 at the headquarters of our new association management firm, AMR (AMR took over management of the Association the first of this year after our previous management firm, Offinger, closed their doors). This year's MYBM commenced with a strategic planning workshop designed to get AEG focused on the top three strategic focus areas that the Board members believe will be of the greatest benefit to AEG. These three areas were: 1) member benefits, 2) student engagement, and 3) professional development/advancing the profession. Many ideas were generated during the workshop, which AEG leadership will use to create action lists to achieve the proposed ideas. (Continued on Page 15)

(Continued from Page 14)

Following the MYBM workshop, the Board focused on conducting the business of AEG. Some items covered included:

- Approval of the 2018-19 slate of officer nominees for which the membership will vote this summer. The membership will vote to elect the following nominees: Secretary, Madeline German; Treasurer; Bill Godwin; VP/President-Elect, Cynthia Palomares. Without balloting, Dave Fenster will become President and Greg Hempen will become Past President.
- Acceptance of a Code of Conduct that the Board believed was needed for its professional objectives as a society. All members will be requested to review the code and accept it with their membership renewal (just once).
 Future new members will need to accept the code as they submit their membership data (just once).
- Some Bylaws amendments were approved by the Board. Many of the amendments were to correct errors or clarify actions. Some amendments are recommended by the Board to the members for an approval vote of the members as these amendments touch upon aspects of members' rights and privileges. The Board doesn't believe that any of these amendments will adversely impact members. The vote on the amendments will be conducted at the time of balloting for the 2018-19 AEG officers. The Board encourages all members to review the nominees/issues and vote, regardless of how the vote.

 Available funding was increased from AEG to the Regional Directors to assist with intraregional travel. Chapters are still encouraged (if they have the resources) to assist their Regional Directors with travel to Board of Directors' meetings.

As stated previously, my term as Southeast Region Director will end prior to the Board of Directors' meeting in San Francisco in September. Rick Kolb (Carolinas Chapter) has agreed to run for the Southeast Region Director position to serve a 3-year term beginning at the San Francisco meeting. I urge everyone to cast your ballots for AEG officers this year before the deadline next month. During the 2016 election for Region Director, not enough votes were cast from the Southeast Region members to allow my election to be accepted, forcing a vote by the overall AEG Board to place me in the Regional Director position. Also, as mentioned previously, our very own Maddie German (current Carolinas Chapter Chair) is slated to be elected to the AEG Executive Council in the upcoming election and all of your votes to approve Maddie for this position will be greatly appreciated.

Speaking of the San Francisco meeting, I urge anyone who can attend to do so. This meeting will include geologists from all over the world and promises to be a great meeting! Hotel rooms within the AEG block are filling up fast, so complete your meeting registration and reserve your hotel room soon.

(Continued on Page 16)



(Continued from Page 15)

On a final note, even though I will no longer be Regional Director after September, I am the Co-Chair for the 2019 AEG Annual Meeting which will be help in Asheville on September 15 through 22, 2019. Please put this meeting on your calendar and if you would like to help with the meeting planning, let me know.

Sincerely,

Paul M. Weaver, P.G.
AEG Southeast Region Director
5005 Birnamwood Trail
Greensboro, NC 27407
pweaver@espassociates.com
(336) 287-2165





Greenville, SC AEG Meeting

By Anthony Herrmann, G.I.T.

Our first Association of Environmental and Engineering Geologists (AEG) meeting in Greenville, SC went great! Special thanks to Birds Fly South Ale Project, Pace Analytical, and the South Carolina Association of Environmental Professionals (SCAEP) for making this possible. Stay tuned for upcoming meetings in Greenville! Send me a message if you want in on the next meeting





P: (336) 335-3174 503 Industrial Avenue Greensboro, NC 27406

eric@pyramidenvironmental.com

PyramidGeophysics.com

For almost 30 years, **Pyramid Geophysics** has been providing cost-effective and non-invasive nearsurface geophysics services to a wide range of industries throughout the United States.

How Can We **Help Solve Your** Problems?

ELECTROMAGNETICS ELECTRICAL RESISTIVITY GROUND PENETRATING RADAR

SEISMIC SERVICES

Water Resources **Private Utility Locating Underground Storage Tanks Landfill Geophysics Geotechnical Geophysics** Geologic Hazards Geologic Mapping

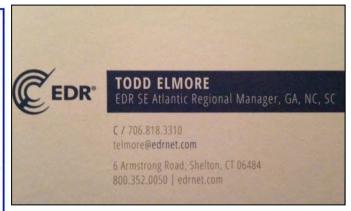




Doug Canavello, P.C., M.B.A



Eric Cross, P.G.







Enviro-Equipment, Inc. "When it has to work"

1-888-274-8929 www.enviroequipment.com

WE BUILD THESE...

Our Instrument Division Includes:

- Rental instruments and accessories
- Instruments for purchase
- Instrument repair
- · Field sampling supplies
- Personal Protective Equipment (PPE) supplies
- Equipment Training

Our Remediation Division Includes:

- Soil and groundwater remediation equipment
- · Remediation rental equipment
- · New and used remediation systems for sale
- · Pilot testing equipment and support
- Remediation components and parts for sale
- Custom electrical control panels
- · Field installation and startup service
- · Field repair of remediation systems
- Bulk carbon sales and change-out services
- Carbon injection services







WE RENT THESE





...AND SO MUCH MORE!

Call or visit our website today!

EEI is a North Carolina certified "Woman-Owned Business Enterprise" incorporated in January, 1993, and is located at 11180 Downs Road in Pineville, NC 28134. In 2004, EEI opened a 10,000 sqft Remediation System Division at 10120 Industrial Drive in

Carolina Board Meeting Minutes 1-17-2018 from 12pm to 1pm—Conference Call By Jennifer Thomas—Secreary

1. Call to Order

 Roll Call -Anthony Herrmann (membership chair), Susan Avritt (vice-chair), Josh Hanks (newsletter), Paul Weaver (past chair, regional director), Rick Kolb (advisor), Rohit Warrier (field trip chair), Maddie German (chair), Jen Thomas (secretary) – Quorum Obtained

3. Carolinas Chapter Finances

- a. There is currently a combined total of approximately \$24,000 in all chapter accounts.
- b. We did receive the \$1,406 from national for the VI conference. We have yet to determine a contribution to the Carolinas Scholarship Fund as a donation from the VI2 Conference.
- c. Maddie, Susan and Walt have chapter debit cards. No one should be using a personal credit card to hold reservations

4. Upcoming Meetings

- a. April Josh is to follow up with Sharon Eckard regarding a Brownfields talk in Raleigh.
 - i. The meeting is planned for Thursday, April 19, 2018 at Trophy Tap and Table.
 - ii. Drink tickets will be provided by Pace and CCI. There is no exhibit table.
 - iii. Maddie will bring the card reader and cash box
 - iv. Five students from Wake Tech, NC State, and UNC are confirmed to present posters.
 - v. Josh is handling receipts.
 - vi. We will again do the 50/50 raffle for scholarships. We'll announce the scholarship winner, Marissa Jerden at the meeting. She plans to be in attendance

- vii. Paul, Rick, Josh, and Maddie plan to attend.
- viii. We had 88 RSVPs. The manager has been contacted to cover enough food. Since attendance is already above what was expected, anyone who shows up without a reservation cannot be guaranteed dinner. We can issue refunds. Josh will bring in a cake.
- ix. Student poster session will be concurrent with networking.
- x. The teacher who won the NC Outstanding Teacher award can't attend but will come in August.

b. August—GenX

- i. Edmund Wolosyzn, Jr. and Heatherly Kennealy are proposed speakers.
- ii. Thursday August 2, 2018 at Trophy Tap and Table (tentative)
- iii. We are expecting a large crowd for the August Raleigh meeting. We need to make sure this space will be large enough and we like it.

c. September

- i. We haven't been able to connect with Greg Hempen about speaking at the Asheville meeting. We may need to find a new speaker. The meeting is not planned yet.
- ii. There was a suggestion of pairing with the Nashville chapter but no decision made
- iii.We discussed September 7th as a date. A later date gets too close to the annual meeting.

(Continued on Page 20)

(Continued from Page 19)

- iv.We want to plan an associated field trip on Saturday.
- v. We are considering Wedge Brewery as a venue.
- d. October/November—Paul W.
 - The Public or Natty Greenes are possible venues. No dates have been decided yet.

5. Field Trips

- a. Rohit is to assume Field Trip Chair duties.
- b.He suggests pairing a hike with Asheville meeting in September.
- c. Sue can help provide contacts and tips for new planners.
- d. A costal hazards trip for spring 2019 will allow us to reach out to Wilmington and try to grow that membership base. Rick has a lead on coastal geologists in the area.
- e. There will not be a fall field trip in 2019 because the Annual Meeting in Asheville.

6. Sponsor Annual Meeting

- a. In the past we've sponsored \$500-1000 and varied events such as special events and technical sessions. Paul motions to sponsor Young at Heart at 2018 Annual meeting or alternate activity to be decided by board for a maximum amount of \$1000. Motion passed unanimously.
- b.We found that Young at Heart already is sponsored the San Francisco Chapter.
 Providing coffee all day on Tues or Thurs is the second choice, which we will submit for.
 The third choice is to sponsor a technical section.

7. Visiting Professionals

- a. Brad Worley is to replace Rick as the lead for Visiting Professionals
- b. Schedule: UNC-C 3/21, Wake Tech 3/22, ECU 3/22, UNC-CH 3/27, NCSU 3/28, Clemson 4/4, ETSU 4/5, Furman—still working on a date, WCU Jenn Bauer is going/went
- 8. Josh did a good job on the spring issue of GeoNews. No needs to report. Next issue submittals by June 1st.

9. Membership—Anthony

- a. National has requested we make phone calls to get people to renew membership.
 We will divide up a list of members and call people we know first. We currently have 99 full members and 149 student members.
- b. We are not sure it is effective to send a flyer to the email addresses on file.
- c. Other sugestions to increase membership: Members only beer ticket, give out 2019 meeting pins to members to wear at April meeting and encourage them to wear at meetings, sales pitch at meetings.
- 10. The sponsor trailer will be updated before the meeting. Eric has not indicated that he will attend.
- 11. Paul is attending the Mid-Year Board Meeting as SE regional director, May 5&6th. There are no questions, comments, or concerns at this time.

(Continued on Page 21)

(Continued from Page 20)

12. 2019 Asheville Meeting—Paul

- a. We should have the next meeting in about 2 weeks. We need to increase activity.
- b. Paul is working on the budget with Heather.
 It's too soon to submit an accurate budget to
 EC/National by June 2018, though they have requested one.
- c. Signed contract with the Community Theatre, to have the opening session (\$1500)
- d. Accents on Asheville—Paul working with them for guest tours.
- e. Jane has drafted a great logo



- f. Asheville Visitor folks have been helping with many items.
- g. Overflow hotels—Sheraton, Aloft
- h. Pins are ordered and will be passed out as a giveaway to members at the Raleigh meeting.

13. Carolinas Scholarship—Paul/Jane

a. There was only 1 applicant for 2018. Students have to apply before visiting professionals since the deadline is Feb 1. To help students know about it, we need to push it during fall semester at meetings. Also suggested is an email blast to students.

14. Succession Planning

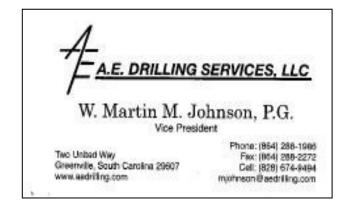
- a. Maddie last year as Chair, Susan moving into this role.
- b. Walt (Treasurer) and Jen (Secretary) would like to remain in their current roles for another term.
- Jacob eager and excited to join board as Vice Chair (he was formerly on the TX Chapter board)
- d. Chair is 2 year term, all others are 1 year.
- e. Ballots are to go out July. Anthony will be the official counter.

15. Social Activities—Adam/Rick

- a. Charlotte Social at OMB 4/24
- b. Anthony organized a Greenville social 4/26 to encourage SC membership.
- 16. Anthony is making suggested changes to the Carolinas logo including shrinking the logo and wrapping "Carolinas Chapter".



(Continued on Page 22)



(Continued from Page 21)

- 17. We need to come up with a plan for Communication and Social Media. A student or young professional would be ideal for this role. We should focus on LinkedIn and find someone to run it. Advertising jobs would generate more traffic.
- 18. Mid-Atlantic agreed to drill wells for UNCW students. We can schedule a field day in the fall centered around that.
- 19. Next call will be July 2018—prior to August meeting.



Environmental Conservation Laboratories, Inc.

JIM HAYS Account Manager

102-A Woodwinds Industrial Ct. Cary, NC 27511 Direct Line: (919) 812-4471 Lab: (919) 677-1669

jhays@encolabs.com • www.encolabs.com



Jennifer Thomas Environmental Contracting

* Phase I and II ESAs * Asbestos Inspections * UŞT

Jennifer B. Thomas, P.G.

704-491-7724 jen@jenntecllc.com www.jenntecllc.com

P.O. Box 30334 Charlotte, NC 28230





Geophysical Services

- Locate abandoned USTs
- · Delineate buried waste
- Characterize bedrock fractures
- Map depth to bedrock
- Designate seismic Site Class
- Map subsurface voids
- Locate rebar and PT cables
- Many other applications....

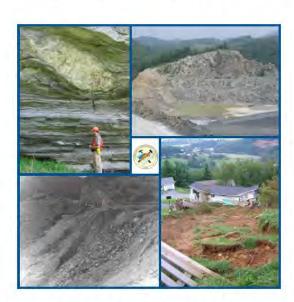
Please contact: Ned Billington, PG, 336-232-5211 geophysics@espassociates.com www.espassociates.com

Carolina Geological Society's 2018 Annual Meeting and Field Trip

Old Wine in New Bottles

Active tectonics and landslides in an ancient orogen

Headquarters: Boone, NC Dates: October 5-7, 2018



The **79**th **meeting of the Carolina Geological Society** will be held October 5-7, 2018 in the area of Boone, NC, under the leadership of:

Rick Wooten (North Carolina Geological Survey)
Kevin Stewart (University of North Carolina - Chapel Hill)
Jesse Hill University of North Carolina - Chapel Hill)
Ellen Cowan (Appalachian State University)
Keith Seramur (Appalachian State University)
Anne Witt (Virginia Division of Mineral Resources).

The one and a half day field trip will examine the relationships between tectonic history, landscape evolution and slope movement processes - faults, lineaments, rock slides and debris flows.

Context

This trip examines the construction of the geospatial legacy of the August 13-14, 1940 tropical cyclone in Watauga County: impacts of the storm as seen on the current landscape – lessons from the past for the future. Landslide hazard mapping in Watauga County identified over 2,100 landslides, mainly debris, flows, that were triggered by rainfall from a tropical cyclone that passed over the area during August 13-14, 1940.

What We Will See (in no particular order)

Remnants of the 1940 debris flow scars and deposits and related geomorphology.

Pleistocene debris fan deposits (footslope of Rich Mountain)

Contaminated site involving Pleistocene debris fan deposits and saprolite. Investigation of contaminant migration through a diamictons/saprolite aquifer on the footslope of Rich Mountain.

Influences of bedrock structure on the Blue Ridge Escarpment (Deep Gap re-entrant) and debris flow occurrence.

Mesoproterozoic metaplutonic rocks and Neoproterozoic metasediments within the Grandfather Mountain Window. Mesoproterozoic basement gneisses and Neoproterozoic-early Paleozoic metasediments in the overlying Fork Ridge and Gossan Lead thrusts sheets.

Bedrock structures and fabrics related to rock slope stability along the Linville Falls and Boone faults, including a stop at the Vulcan Materials Boone Quarry.

Active, slow-moving, weathered-rock slide (Hwy 105 near Old Watauga High School)

IMPORTANT INFORMATION!!!!!

<u>Hotel Information</u>: The headquarters hotel for this year's meeting is the LaQuinta Inn and Suites, 165 Highway 105 Extension, Boone, NC 28607. Telephone 828-262-1234. You are responsible for making your own room reservations. Cheaper rooms can be found at the LaQuinta Inn's sister property, the adjacent Sleep Inn, 163 Highway 105 Extension, Boone, NC 28607, telephone 828-262-0020. Both hotels are next to one another. Buses will leave from their combined parking lot.

In 2014, the CGS Board of Directors approved a change in the pricing for the annual meeting. If you are an active member in good standing in CGS, you can register at a lower price than non-members. Non-members must pay a higher price to offset the cost of processing their registration. IF YOU ARE UNSURE IF YOUR MEMBERSHIP IN THE SOCIETY IS ACTIVE AND UP-TO-DATE, PLEASE INQUIRE WITH CGS SECRETARY-TREASURER TYLER CLARK AT: carogeosoc@me.com.

	Members	Non-members	Reduced*
Friday Welcome Party	FREE	FREE	FREE
Saturday Field Trip	\$85	\$95	\$30
Sunday Field Trip	\$75	\$85	\$20
Guidebook	\$20	\$20	\$20

^{*}the Reduced Rate is intended for all active students (high, middle school or college), active high school earth science educators, or retirees.

CALENDAR OF EVENTS—2018

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated March 28, 2017 Send updates/corrections to Alec Dziwanowski, adziwanowski@gmail.com

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

Date: Thursday, August 2, 2018

Event: AEG Carolinas Summer Meeting

Topic: Legal and Technical Aspects of the GenX Issue Speaker: Edmund Woloszyn and Heather Kennealy Location: Clouds Brewing; 126 North West Street,

Raleigh, NC 27603

Time: 5:00pm social begins, 6:30pm buffet dinner,

7:30pm talk

Cost: Members \$30, Non-members \$40, Public sector/Teachers \$20, Students free with college ID. Cost includes one drink ticket courtesy of Al King of HERR

and Kendall Sutler of SGS!

Contact/RSVP: Rick Kolb at rick.kolb@gmail.com by

5:00 p.m. on Monday July 30,2018

Date: Thursday, August 2, 2018

Event: Engineers Without Borders monthly meeting, Research Triangle Park Professional Chapter

Time: Meeting 6:30-7:45 p.m., Dinner and/or Drinks

8:00 p.m.

Location: The offices of CDM Smith; 5400 Glenwood

Avenue, Suite 400; Raleigh NC

Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

events

Date: Wednesday, August 15, 2018

Event: NCBLG Board Meeting

Location: State Board of Examiners of Plumbing, Heating and Fire Sprinkler Contractors, Raleigh, NC

Time: 9:00 am

Details: https://www.ncblg.org/meetings/

Date: Thursday, April 20, 2017 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Envi-

ronmental Professionals Presentation: TBD

Time: 6:30pm Social with Pizza & Beverages, 7:00pm

Presentation

Location: Jim Hamilton-L.B. Owens Airport - 1400

Jim Hamilton Boulevard, Columbia, SC Contact/RSVP: David Heicher at dheicher@dakotatechnologies.com

Date: Thursday, September 6, 2018

Event: Engineers Without Borders monthly meeting,

Research Triangle Park Professional Chapter

Time: Meeting 6:30-7:45 p.m., Dinner and/or Drinks

8:00 p.m.

Location: The offices of CDM Smith; 5400 Glenwood

Avenue, Suite 400; Raleigh NC

Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

events

Date: Thursday, August 2, 2018 **Event: AEG Carolinas Fall Meeting**

Topic: TBD

Location: Habitat Brewing; 174 Boadway Street,

Asheville, NC 28801

Time: TBD

Cost: Members \$30, Non-members \$40, Public sector/Teachers \$20, Students free with college ID.

Details: aegcarolinas.org/news/

Date: September 15-23, 2018

Event: AEG Annual Meeting

Topic: Engineering Geology for a Sustainable World Location: Hyatt Regency San Francisco, Five Emarcadero Center, San Francisco, California, 94111 Details: https://www.aegannualmeeting.org/

Date: Thursday, September 20, 2018

Event: Groundwater Professionals of North Caroli-

na—Charlotte Meeting and BBQ

Presentation: How to Improve ISCO Performance in

Source Areas

Speakers: Pat Hicks with Peroxychem

Time: Dinner Meeting/Speaker from 5:30-9:00 p.m. Cost: Standard-\$45/Public Sector-\$30/Students-FREE Location: The Barn at Hornet's Nest Park; 6301

Beatties ord Road, Charlotte, NC 28216

RSVP: groundwaterprofessionalsnc@gmail.com

Details: www.gwpnc.org

Date: Thursday, September 20, 2018 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Envi-

ronmental Professionals Presentation: TBD

Time: 6:30pm Social with Pizza & Beverages, 7:00pm

Presentation

Location: Jim Hamilton-L.B. Owens Airport – 1400

Jim Hamilton Boulevard, Columbia, SC Contact/RSVP: David Heicher at dheicher@dakotatechnologies.com

(Continued on Page 26)

GeoNews—Page 26 GeoNews—News of the Profession

SUMMER 2018

(Continued from Page 25)

Date: September 28-30, 2018

Event: Carolina Geological Society 2018 Annual

Meeting and Field Trip Location: Boone, NC

Trip Leaders: Rick Wooten and Kevin Stewart Details: http://carolinageologicalsociety.org/CGS/

Next Meeting.html

Date: Thursday, October 4, 2018

Event: Engineers Without Borders monthly meeting,

Research Triangle Park Professional Chapter

Time: Meeting 6:30-7:45 p.m., Dinner and/or Drinks

8:00 p.m.

Location: The offices of CDM Smith; 5400 Glenwood

Avenue, Suite 400; Raleigh NC

Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

<u>events</u>

Date: Friday, October 5, 2018

Event: ASBOG Geology Exams

Details: Deadline for individual applications is

Wednesday, August 8, 2018

Location: McKimmon Center, NC State University,

Raleigh

Contact: www.ncblg.org

Date: October 5-7, 2018

Event: Carolina Geological Society's 2018 Annual

Meeting and Field Trip

Topic: Old Wine in New Bottles: Active Tectonics and

Landslides in an Ancient Orogen

Location: Laquinta Inn and Suites; 165 Highway 105

Extension, Boone, NC 28607

Details: http://carolinageoloicalsociety.org/CGS/

Next_Meeting.html

Date: Thursday, April 20, 2017 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Envi-

ronmental Professionals Presentation: TBD

Time: 6:30pm Social with Pizza & Beverages, 7:00pm

Presentation

Location: Jim Hamilton-L.B. Owens Airport – 1400

Jim Hamilton Boulevard, Columbia, SC Contact/RSVP: David Heicher at dheicher@dakotatechnologies.com

Date: Thursday, November 1, 2018

Event: Engineers Without Borders monthly meeting,

Research Triangle Park Professional Chapter

Time: Meeting 6:30-7:45 p.m., Dinner and/or Drinks

8:00 p.m.

Location: The offices of CDM Smith; 5400 Glenwood

Avenue, Suite 400; Raleigh NC

Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

<u>events</u>

Date: November 4-7, 2018

Event: Geological Society of America 130th Annual

Meeting

Location: Indiana Convention Center & Lucas Oil Stadium, 100 S Capitol Avenue, Indianapolis, IN 46225

Abstract Deadline: August 14, 2018

Early Registration Deadline: October 1, 2018
Early Hotel Registration Deadline: October 10, 2018

Registration Deadline: October 8, 2018

Details: http://community.geosociety.org/gsa2018/home

Date: Thursday, December 6, 2018

Event: Groundwater Professionals of North Carolina

Raleigh Meeting

Presentation: Detection Methods for GenX and Per and Polyfluoroalkyl Substances (PFAS) by Mark Stynar

with the EPA

Time: Dinner Meeting/Speaker from 5:30-9:00 p.m. Cost: Standard-\$45/Public Sector-\$30/Students-FREE Location: JC Raulston Arboretum at NCSU; 4415 Ber-

yl Road, Raleigh, NC 27606

RSVP: groundwaterprofessionalsnc@gmail.com

Details: <u>www.gwpnc.org</u>

Date: Thursday, December 6, 2018

Event: Engineers Without Borders monthly meeting,

Research Triangle Park Professional Chapter

Time: Meeting 6:30-7:45 p.m., Dinner and/or Drinks

8:00 p.m.

Location: The offices of CDM Smith; 5400 Glenwood

Avenue, Suite 400; Raleigh NC

Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

<u>events</u>

Date: March 28 - 29, 2019

Event: Annual Meeting of the Geological Society of

America, Southeastern Section

Location: Francis Marion Hotel; 387 King Street,

Charleston, SC 29403

Abstract Deadline: December 4, 2018

Hotel Registration Deadline: February 26, 2019 Details: http://www.geosociety.org/GAS/Events/

Section Meetings/GAS/Sections/se/2019mtg/home.aspx

Date: June 8 - 14, 2019

Event: AEG Grand Canyon Field Trip

Location: Flagstaff, Arizona

Costs: TBD

Details: http://aegcarolinas.org/aeg-grand-canyon-field-trip-

june-2019/

Date: September 8 - 14, 2019 Event: AEG Annual Meeting

Location: Asheville, NC

Costs: TBD







ACCUTEST

SGS ACCUTEST NOW OFFERS A FULL ARRAY OF ENVIRONMENTAL SERVICES

SGS Accutest is now part of SGS Environmental, Heath & Safety (EHS), North America. Added to the superior environmental services and technical expertise you've known, we now offer an ever-growing breadth of industry-leading services through the SGS group of companies. These include Industrial Hygeine analysis and monitoring through SGS Galson, Utra Trace analysis (Dioxins/Furans, PCB Congeners, PBDE) through the Wilmington, North Carolina lab.

SGS Accutest has provided environmental testing and analysis for over 60 years. For more information on our services, contact Michelle Williams at +1 803 360 4634 or michellw@accutest.com, or Kendall Sutler at +1 910 465 5958 or kendall.sutler@sgs.com.

SGS

SGS ACCUTEST

Wilmington, NC Charlotte, NC Columbia, NC Raleigh, NC www.us.sqs.com/environment

Orlando, FL www.accutest.com

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



Association of Environmental & Engineering Geologists

201 E. Main Street, Ste. 1405, Lexington KY 40507 USA • Ph: 844-331-7867 • www.aegweb.org Connecting Professionals, Practice and the Public

AEG membership helps to enhance your technical and business knowledge, provide career opportunities, and introduce you to thousands of other professionals, all while having fun in the process! Visit www.aegweb.org to see the great benefits we have to offer our members.

1. CHOOSE YOUR MEI	MBERSHIP	2. INDICATE YOUR CHAPTER
FULL MEMBER		All paying memberships require applicants to pay Chapter dues in addition to the membership fee. Visit www.aegweb.org/Chapters for a list and map. Please call AEG Headquarters for assistance. Chapter
geologists, or a person i engineering geology. TEACHER Must be engaged in fullor Post-Secondary level INTERNATIONAL Must meet the requirem citizen of the United State Memberships are based received after October 1	on the calendar year. Applications will extend through the following year.	Chapter Fees \$ 3. SELECT OPTIONAL FEATURES Members receive free digital access to AEG publications. Order printed copies at additional cost by checking the boxes below: □ AEG News (print) — additional \$30 USD per year □ E&EG Journal (print) — additional \$60 USD per year AEG is proud to be an affiliated member of the International Association for Engineering Geology and the Environment (IAEG). With this affiliation, we can offer a special rate for IAEG benefits (U.S. members only). Fees are in the USD. □ One year + digital newsletter \$20/year □ One year + digital newsletter & printed Bulletin \$55/year Note: Bulletin issues will be mailed at the end of the year.
	NTACT INFORMATION (please print legibly)	
		Company
		27.50 O
		State/Province
ZIP/Postal Code		Country
Work Phone		Mobile Phone
Email		Website
Signature	ologist or Engineer? □ Yes □ No t, to the best of my knowledge, I meet the aca on this application are true and correct.	☐ Please DO NOT list my contact information in the AEG Directory ademic and practice requirements for the membership class requested
To pay by credit card, pl does not accept credit c email address associate AEG's primary form of c add the aegweb.org email	EG) Total Enclosed \$ ease visit www.aegweb.org and Join or Sign ards by fax, email or mail. For help with your u d with your member record. Please contact A ommunication is paperless, which conserves	environmental resources while also reducing administrative costs. Please are you receive all communications from AEG.
Affiliate members contribut	e to the AEG Legislative Fund along with their mem	ome tax purposes but may be deductible as a business expense. However, Full and ther dues and this portion does not qualify for any tax deduction. AEG estimates the pide outside California. For CA residents, who already have an established member

Thank you! We appreciate your support of the Association of Environmental & Engineering Geologists.

supported lobbying effort, AEG estimates the 2018 legislative contribution made on your behalf to be \$5. Chapter fees are non-deductible.

AB

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 geosciencementors 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 x3-1/2" 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 yoursite.

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 intable. Verbal acknowledgement by name in Chairman's introductory

Meeting Exhibits: Space for tabletop display at two 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.

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 intable. 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 Walt Plekan, AEG Carolinas Sponsorship Chair. Please call or email if you have any questions (contact information below).

AEG Carolinas Chapter Sponsorship Form

Association of Eng	ponsorship of the Carolinas Chapter of the gineering Geologists. Our sponsorship level is: n Chapter Sponsorship, \$650/year
Platimun	n Chapter Sponsorship, \$550/year
Gold Ch	apter Sponsorship,\$400/year
Silver C	hapter Sponsorship, \$275/year
GeoNev	vs Newsletter Sponsor Only (see above)
Name:	
Address:	
City, State, Zip: _	
Phone:	Fax:
Contact Person:	
Cell:	
Email:	
Website URL:	
Date of Payment:	
	your company (use back of page for more
ie .	

Please enclose a business card or email ad in jpg, pdf, or doc to Eric@pyramidenvironmental.com.

SPONSOR ONLINE AT WWW.AEGWEB.ORG or MAKE CHECK OUT TO AEG CAROLINAS

(Modified 11/102016

Snail mail form and payment to:

Eric Cross, P.G., AEG Carolinas Sponsorship Chair 503 Industrial Avenue, Greensboro, NC 27406

GeoNews—Page 30 GeoNews - News of the Profession SUMMER 2018 Thank You, AEG Carolinas Sponsors!!

TITANIUM SPONSORS

Eastern Solutions, LLC, 4543 Charlotte Hwy, Suite 8 Lake Wylie, SC

29710 www.easternsolutionsenv.com Edgar Alcaraz, Cell: (803) 280-0757, Office: (803) 746-5180

ealcaraz@easternsolutionsenv.com

Eastern Solutions would like to thank all of our clients for their continued support and word of mouth advertising. Our inventory continues to grow with new and updated equipment and supplies. If you would like an updated catalog, please contact us and we'll make sure to send an electronic copy to you. As always our rental services offer free pick-up and delivery 90 miles from Charlotte (includes but not limited to Greensboro, NC; Greenville, SC; Columbia, SC). In addition, to make deliveries more convenient, ES can drop off and pick-up the equipment at your site. If you are outside the 90-mile radius we offer free ground to and from shipping (equipment is shipped in crates for easy returns and return labels are pre-printed inside). If you need anything, please do not hesitate to contact our main office (803) 746-5180. If you are interested in hearing more about Eastern Solutions, please let us know and we would be more than happy to come out and visit.

Enviro-Equipment, Inc. 11180 Downs Road Pineville NC 28134

Denise Chew, 704-588-7970, denise@enviroequipment.com, Brian Chew, 888-274-8929, brian@enviroequipment.com; We are a Woman-Owned Small Business, staffed by experienced professionals, commit-ted to providing quality environmental equipment and products for rent or sale at reasonable rates. EEI is a stocking distributor of numerous environmental products for detection of air, water, and soil contamina-tion.

Pace Analytical Services, Inc., 9800 Kincey Avenue; Huntersville, NC 28078; www.pacelabs.com Korey Drew, 704-315-8068, Korey.drew@pacelabs.com

PLATINUM SPONSORS

Pine Environmental Services, Inc. 8411 Garvey Drive, Suite 113 Raleigh

NC 27616 www.pine-environmental.com
Paul Federline, 866-646-7463, pfederline@pine-environmental.com 919-713-0008; Pine Environmental Services, Inc., "The Environmental Supply and Support People" is the largest environmental supply and leasing company in North America. Pine is the leading provider of rental equipment in the nation with the latest instruments available. Pine Environmental Services, Inc. takes pride in their unprecedented customer support and competitive pricing. Extended hours of operation and after-hour emergency support are on hand.

SGS Accutest, www.sgs.com

5024A Departure Drive, Raleigh, NC - Terri Rivenbark at 919-208-7171 2828-C Queen City Drive, Charlotte, NC - Charles Cabaniss at 704-929-1533 For all analytical services and quote inquires please contact Kendall Sutler at kendall.sutler@sgs.com 910-465-5958.

SGS is a network of laboratories providing reliable and high quality environmental testing services including organic and inorganic analysis of water, soil/sediment, air, wastes, energetics and explosives and emerging contaminates to include PFOS/PFOA and GenX. As a standard part of our analytical data services, SGS offers LabLink, a complete online data service with the power and ease of use that is unprecedented in our industry. SGS currently has multiple labs in our network that are NC certified as well as multiple labs supporting air analysis for TO-15.

Schnabel Engineering, 11 Oak Branch Drive; Greensboro, NC 27407

www.schnabel-eng.com, Gary Rogers, (336) 274-9456, grogers@schnabel-eng.com. Schnabel provides specialized expertise and design for geotechnical, tunnel, and dam engineering projects across the US and worldwide. We are dedicated to providing technical excellence, value, environmental stewardship and innovation on every project. As an employee-owned company of over 300 diverse professionals, we have a passion for client service and touch technical challenges. An ENR Top 250 engineering firm, Schnabel serves both public and private sector clients.

GOLD SPONSORS

Clean Vapor, LLC, PO Box Charlotte; NC 28271; www.cleanvapor.com

Tom Hatton, 9083625616, thatton@cleanvapor.com; Clean Vapor, LLC is a design-build vapor intrusion mitigation company with 30 years of experience with offices in New Jersey and North Carolina. We special-ize in existing building and new construction mitigation. Our focus is on integration of energy efficient dynamic controls and remote monitoring technology

Contaminant Control, Inc. (CCI), 3434 Black & Decker Road, Hope Mills

NC 28348. www.cci-env.com, Mark Vestal, 910-484-7000, mark.vestal@cci-env.com. CCI is a full service environmental con-sulting company. Our services include asbestos abatement, remedia-tion, demolition & specialty blasting.

Geologic Exploration, Inc. 176 Commerce Blvd. Statesville NC 28625

Matt Tischler, 800-752-8853, mtischler@gexnc.com, Steve Taylor, 704-872-7686, ; Geologic Exploration is a full service environmental drilling contractor, specializing in monitoring and recovery wells. We also perform rock coring, packer testing, well abandonment, and other environmental services.

Hart & Hickman, PC; 2923 South Tryon Street, Suite 100; Charlotte, NC 28203; www.harthickman.com Rebecca Deal, 704-887-4636; rdeal@harthickman.com

Pyramid Environmental 503 Industrial Avenue Greensboro NC 27406

www.pyramidenvironmental.com Doug Canavello, 336-335-3174,

doug@pyramidenvironmental.com; Since 1990, as a professional, licensed engineering and geological firm, Pyramid has the expertise to research and analyze relevant environmen-tal regulations, potential hazards, clean-up alternatives and environmen-tal protection issues to design and implement solutions for environmen-tal problems.

Municipal Engineering Services Company, P.A., 68 Shipwash Drive,

Garner, NC 27529; www.mesco.com

Maddie German, 919-772-5393, mgerman@mesco.com

GeoNews - News of the Profession Summer 2018 GeoNews—Page 31 Thank You, AEG Carolinas Sponsors!!

SILVER SPONSORS

AE Drilling Services, Inc. Two United Way Greenville SC 29607

W. Martin Johnson, P.G., 864-288-1986, mjohnson@aedrilling.com; AE Drilling Services has provided geotechnical, environmental, water supply, and mineral exploration drilling services to fellow professionals for over 40 years.

Con-test Analytical Laboratory, 39 Spruce Street; East Longmeadow, MA

Paul Konnik, 314-302-0431, paul.konnik@contestlabs.com; Con-Test Analytical Laboratory is a full service environmental testing laboratory with capabilities in nearly all soil, air and water analyses. Con-Test has experienced staff and state of the art instrumentation to provide quality analytical services, balancing response and prompt turnaround with precise and reliable analyses, ensuring data integrity. Our value added service includes expertise in technical and customer service which is reflected in a diverse customer base.

EGIS, PA 441 Northside Drive Chapel Hill NC 27516

Mike Vaught, 9199298363, gwinvest@juno.com, Lynn Bressler, 9199298363, ; EGIS, PA specializes in downhole geophysical and borehole video inspection services. We can assist in well develop-ment and rehabilitation.

Environmental Conservation Labs (ENCO) 102-A Woodwinds

Industrial Court Cary NC 27511 www.encolabs.com Jim Hays, 919-467-3090, jhays@encolabs.com, Susan Purser, , spurser@encolabs.com; ENCO Labs is committed to having the best service in the industry. With this service, we ware also the most economical lab to use as well. Fewer errors, less rework time, and solid defensible data.

Environmental Data Resources (EDR) 6 Armstrong Road, Shelton,

CT 06484 www.edrnet.com Todd Elmore, 706-818-3310, telmore@edrnet.com; Founded in 1990 by environmental professionals, EDR is headquartered in Shelton, Connecticut. Twenty regional offices are located through-out the United States. EDR is wholly owned by Daily Mail and General Trust, plc (DMGT) subsidiary <u>DMG Information</u>. Other DMGI companies include Trepp, Landmark Information Group, Lewtan Technologies and Genscape. For more information about EDR, please visit www.edrnet.com

ESP Associates, P.A. 7204 W. Friendly Ave., Suite G Greensboro NC 27401 www.espassociates.com

Paul Weaver, 336-267-2165, pweaver@espassociates.com; ESP Associates with offices in Fort Mill, South Carolina and in Wil-mington, Raleigh, Concord, and Greensboro, North Carolina. Providing Civil Engineering, Water Resources, Mobile 3D Map-ping, 3D Laser Scanning, Geotechnical Engineering, Materials Testing, Special Inspections,
Geophysics, Hydrographic Surveys, Transportation Geotechnical Engineering, Environmental Engi-neering, GIS, Landscape Architecture/Land Planning, and LEED services since 1986

Hazmat Emergency Response and Remediation, Inc. (HERR), 303 S Naultsby Street; Whiteville, NC 28472; www.herrteam.com; Al King, 919-234-3172, al.king@herrteam.com

Parratt-Wolff, Inc., 501 Millstone Drive, Hillsborough, NC 27278; www.pwinc.com, Gary Ellingworth, 919-644-2814, gellingworth@pwinc.com

Prism Laboratories P. O. Box 240543 Charlotte NC 28224-0543

Adam Phillips, 919-451-3370, aphillips@prismlabs.com Since its inception in 1992, Prism Laboratories, a woman owned small business certified company, has been committed to providing the highest level of quality analytical services and technical sup-port to our customers in the environmental monitoring, water quality and waste disposal market. Our team of highly qualified profes-sionals is focused on ensuring on-time delivery of accurate and precise analytical results, while working one on one with our cus-tomers to provide customized service to suit each client's specific requirements. Prism Laboratories is NELAC and DOD accredited, holds State certifications throughout the Southeast and maintains an extensive list of accreditations and memberships pertinent to the analytical testing and environmental monitoring industry.

SAEDACCO 9088 Northfield Drive Fort Mill SC 29707

Peter Byer, 803-548-2180, pbyer@saedacco.com 803-548-2180; South Atlantic Environmental Drilling and Construction Inc., (SAEDACCO), founded in 1993, is a southeast regional environmental services company. SAEDACCO is located in Fort Mill, SC and special-izes in providing Direct Push, Drilling Construction, and Remediation services for the environmental industry.

Our sponsors are a valuable resource for the funding of meetings, outreach and educational programs. Please honor their support by giving them your business. If you don't see your company name here, contact one of our sponsor chairs, Eric Cross at eric@pyramidenvironmental.com or Rebecca Deal at RDeal@harthickman.com for sponsorship information, or fill out and mail the Sponsorship form on page 41 in this issue.

> You may also renew or join our national sponsors online at www.aegweb.org. Consider becoming a national AEG Sponsor!