

GeoNews

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

WINTER 2017



IN THIS ISSUE

SAVE THE DATE

Emerald Hollow Mine Trip8
Education News and Accolades 11
Summary of VI: The Conference II 18

January 25, 2018
AEG Carolinas Winter Meeting
Draught, Charlotte

March 9-10, 2018
AEG & USC Spring Meeting & Field Trip
Columbia, SC

Thanks to our Sponsors!

GEONEWS WINTER 2017
Issue Date: December 22, 2017
TABLE OF CONTENTS

Articles and Reports
Emerald Hollow Mine Trip Summary by Sue Buchanan8
Summary of VI: The Conference II by Rick Kolb18
Past Chair Perspective by Jay Bennet20
Columns and Regular Features
Message from the Chair by Madeline German3
Education: NC Science Teachers Association11
Education: Some Love for AEG Carolinas14
Board Business
10-11-17 Meeting Minutes by Jennifer Thomas22
Forms and Flyers
Winter Meeting Announcement6
Spring Field Trip9
Calendar of Events25
AEG Membership Application28
Sponsor Application29

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

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Cover: Photo of Jane Gill-Shaler attending the AEG booth at the NCSTA Conference

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MESSAGE FROM THE CHAIR

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

Greetings Carolinas Chapter!

AEG Carolinas wrapped our 40th anniversary year with the same vigor and enthusiasm as we started. We had our 40th Anniversary Dinner meeting in Greensboro, the town where the Carolinas Chapter (then section) was founded. On Thursday, October 22nd **Cyrus Parker** with NCDOT presented "Greenville's Tenth Street Connector and the Environmental Challenges of an Urban Transportation Project". There were approximately 60 regulators, professionals and students in attendance. **SAEDACCO** and **Eastern Solutions** set up tables as exhibitors and provided one drink ticket per paid registration.

Also at this meeting a 50/50 raffle was held to raise money for the Carolinas Scholarship fund. \$150 was raised at the meeting because the raffle winner (**Sue Buchanan**) generously donated her winnings to the scholarship fund.

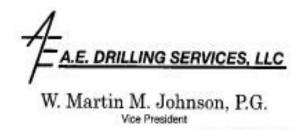
The fall field trip to the **Emerald Hollow Mine in Hiddenite, North Carolina** on Saturday, October 21, 2017 was an overwhelming success. This was the first field trip we were forced to create a waiting list because there was so much interest. Look for this trip to come back around. The Emerald Hollow Mine in Hiddenite, NC, is the only emerald mine in the United States open to the public for prospecting. The mine has been in business since 1986, there are no caves or tunnels at the mine; all mining is done vertically by digging down into the ground or using sluice buckets filled with dirt.

In addition to the mine, the property has two streams that can be panned, sluicing stations, and a lapidary shop, where gemstones are cleaned, cut on site, and made into jewelry. AEG members spent the day searching and finding emeralds and participated in an educational program that included an earth science lesson, creeking (a crowd favorite), sluicing, and surface collecting. Both NC and SC Continuing Education Credits were awarded to attendees.

On October 5th and 6th we hosted **Vapor Intrusion**: The Conference II in Charlotte. We had 182 registrants (55 from the public sector), 26 speakers, 18 exhibitors, 4 sponsors, 8 planners, and 4 student volunteers from UNC-Charlotte attend to learn the latest technical, regulatory and legal perspectives on VI. AEG President Greg Hempen came to Charlotte for the conference and also found time to stop by UNCC to speak with the geology students. The VI Conference provided 12 hours of continuing education credits, which fulfills the yearly requirement for geologists registered in North Carolina. The presenters have graciously allowed us to release their presentations. We have converted the presentations from Power-Point files to .pdf files and saved them in a Dropbox at:

https://www.dropbox.com/sh/no0f3qkzaix6iji/ AADMmuAjl6jcDK9qwXPbSmzUa?dl=0

(Continued on Page 4)



Two United Way Greenville, South Carolina 29607 www.sedrilling.com Phone: (954) 288-1965 Fax: (964) 288-2272 Cell: (828) 674-9494 mjohnson@aedrilling.com (Continued from Page 3)

On deck for 2018 we will begin the year in Charlotte, NC for the January 25th dinner meeting at Draught. Dr. Kevin Finneran, Associate Professor of environmental engineering at Clemson University and owner of Finneran Environmental, LLC, will be presenting "Combined microbial-chemical redox reactions for Cr(VI) transformation". In his talk, he will discuss how Cr(VI) bioremediation has generally been predicated on stimulating strictly microbial reactions, in which the cells must directly interact with the contaminant(s) to transform it. While this can be effective and efficient, there are times when direct cellular interactions are slow, incomplete, or completely impossible. Kevin will present new approaches in this technology including electron transfer via activated carbon, with both laboratory and field examples.

In February the 2017-2018 Jahns Distinguished Lecturer Dr. John Wakabayashi, P.G., will visit schools across North and South Carolina; details will be updated on the aegcarolinas.org website.

The spring 2018 field trip will be <u>Dam Failures</u> during the historic October 2015 Flood in South Carolina, hosted by the University of South Carolina, AEG, and ASCE, in Columbia, South Carolina. We will be having a dinner meeting on Friday March 9th at USC with the all-day field trip Satur-day March 10th.

The field trip will include two or three locations that were impaired during flooding including the Old Mill Dam, an earthen dam located in

Lexington County, which was one of the largest dams destroyed during the flooding, with a breach depth over 7 meters; and Lake Elizabeth, located in Richland County. Further details concerning dam locations for this field trip and others from this flood can be found in; "Embankment Failures during the Historic 2015 October Flood, South Carolina: Case Study" (2016) in the Journal of Hydraulic Engineering.

As we bring the amazing adventures of 2017, our 40th anniversary year, to a close; it is a good time to pause and reflect on the great people, beautiful and interesting locations and thought-provoking problems with creative solutions we as geologists are privileged to experience as part of our everyday life. Thank you all for your hard work and dedication to AEG in the 2017 year. I am looking forward to seeing and work-ing with you in 2018.

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.

Walle In



Maddie German, PG
madeline@smithgardnerinc.com
AEG Carolinas Chapter Chair







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Dinner Meeting

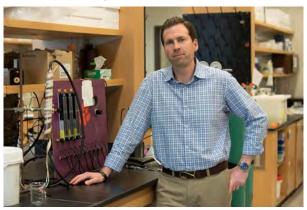
The Carolinas Chapter of the Association of Environmental & Engineering Geologists

Guest Speaker:

Dr. Kevin T. Finneran

Associate Professor, Clemson University Environmental Engineering

Owner and Principal, Finneran Environmental, LLC



Presentation:

Combined microbial-chemical redox reactions for Cr(VI) transformation

Dinner and Talk: 5:30-9:00 PM on Thursday, January 25, 2018

Draught Restaurant and Bar

601 S Cedar Street

Charlotte, North Carolina 28202

Meeting Details

Place: Draught Charlotte

Date: Thursday, January 25, 2018

Time: 5:30 PM socializing begins, 7:00 buffet dinner, 8:00 talk

Cost: AEG members \$30, non-members \$40, public-sector employees \$15, teachers

\$10, students free with college ID

Reservations: Please make reservations with Jenn Thomas by 6:00 PM on Thursday, January

18, 2018

email: jen@jenntecllc.com

Presentation Abstract

Cr(VI) bioremediation has generally been predicated on stimulating strictly microbial reactions, in which the cells must directly interact with the contaminant(s) to transform it. While this can be effective and efficient, there are times when direct cellular interactions are slow, incomplete, or completely impossible. We have been investigating combined microbial-chemical reactions for both organic and inorganic contaminants, and how to best promote different microbial populations for increasing the rate and extent of attenuation. One effective approach has been microbially mediated reactions, which promote secondary chemical reactions that transform contaminants of concern. This has been particularly effective with metals and metalloids, and Cr(VI) in particular. The cells reduce electron acceptors including Fe(III) or reducible natural organic matter (humic substances), and the reduced Fe(II) or humic material chemically transfers electrons to Cr(VI). This process has been referred to as extracellular electron shuttling, but in reality, is more of an understanding of how electron transfer takes place within contaminated water/solid environments.

We will discuss new approaches in this technology including electron transfer via activated carbon. An alternative approach is when chemical treatment precedes microbial treatment, such as when chemical oxidants or reductants are applied for contaminant transformation, and microbial activity is then promoted to degrade residual contamination.

Laboratory and field data will be presented.

Presenter Résumé

Bio: Kevin T. Finneran, Ph.D., Associate Professor, Department of Environmental Engineering and Earth Sciences,

Department of Microbiology, Clemson University

Kevin is an associate professor of environmental engineering at Clemson University; he received his Ph.D. in microbiology in 2001 at the University of Massachusetts at Amherst. He has been a professor at the University of Illinois Urbana Champaign, and a consultant at Geosyntec. His expertise is environmental remediation using microbial and chemical reactions. He is a Kavli Fellow of the National Academy of Sciences (NAS), which recognizes young researchers considered experts in their field. He owns and operates Finneran Environmental, LLC, which support clients on the most difficult or problematic environmental remediation projects.



Research/Academic Web Page: www.clemsonbioremediation.com



Consulting Web Page: www.finneranenvironmental.com

Emerald Hollow Mine Field Trip Summary

By Sue Buchanan, Field Trip Chair



Sluicing at Emerald Hollow Mine. Use a sieve and brush to sift through soil dug up from the Wallace Creek to Collect rare minerals.

A fun group of about 50 AEG members, nonmembers, and students were gem-seekers for a day at Emerald Hollow Mine in Hiddenite, NC, with help from the host of the trip, Emerald Hollow Mine geologists Issac "Drew" Ervin and Mike Watkins. Many people took home some good finds: minerals, rocks, and a want to come back to find more!

The day started with finding gemstones in the sluice and here Drew Ervin taught us the history of the Emerald Hollow Mine. It all started in the mid-1880s by a mineralogist William Hidden, who was sent by Thomas Edison to explore this area for platinum needed for coating the wire filaments in electric light bulbs. Hidden did not find any platinum, but did discover a fault line where emeralds and sapphires were found near quartz-muscoviterich veins. This is where Hidden discovered a neongreen spodumene and named it hiddenite. Rare specimens of hiddenite have been found at Emerald Hollow Mine, and you can see some in the Lapidary Shop at the mine.

Next, Drew Ervin gave us a general geology lesson with tectonic history about the Hiddenite area, followed by a walk into the woods where we located a quartz-muscovite vein and tried digging in the

area to locate minerals. The rare minerals are located in altered zones along the periphery of the quartz-muscovite veins. The main trend of the veins is northeast-southwest. You can either dig to find minerals or you can go creeking — which was a lot of fun. The mine offers small shovels and sieves which you can use to sort through the sand and gravel of the Wallace Creek. Here my geo-friends and I found some good pieces of minerals like amethyst, rutile, emerald, smoky quartz, and sapphire.

If you would like to experience Emerald Hollow Mine for yourself, it is open to the public every day, rain or shine (except for fall/winter holidays) from 8:30am to sunset. They also have a beautiful collection of hand-crafted jewelry from gemstones found at the mine at their Lapidary Shop! Check out their website at http://www.emeraldhollowmine.com/.

Our next AEG field trip is to the University of South Carolina in Columbia where we will visit their geotechnical laboratory and learn about the impacts of the 2015 floods on earthen embankment dams within the Midlands of South Carolina. We will have a Friday meeting on March 9th at USC followed by a Saturday field trip on March 10th. Visit the AEG Carolinas website at http://aegcarolinas.org/ for more information about this upcoming field trip.



Smart rutile minerals found at Emerald Hollow Mine. Even rutile knows the ABCs.



ASSOCATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS—Carolinas Chapter

Save the Date for the Spring Meeting and Field Trip 2018

Hosted by the University of South Carolina and AEG Carolinas Chapter Dam Failures during the historic October 2015 Flood in South Carolina

Meeting: Friday, March 9th and Field Trip: Saturday, March 10th, 2018

Friday Meeting: Carolina Room in the Capstone Conference Center of USC

Address: 902 Barnwell Street, Capstone Hall, Columbia, SC

Presentation by: Dr. Lindsey LaRocque (USC) and Dr. Ali Tabrizi (Schnabel Engineering)

Presentation Title: Dam related studies at the University of South Carolina

Time: 6:00pm t o 9:00 pm, with one hour social, one hour dinner, and one hour presentation **Cost:** AEG Members \$30, Non-members \$40, Public Sector \$15, Teachers \$10, Students Free

South Carolina Continuing Education Credits: 1 credit **North Carolina Continuing Education Credits:** 1 credit

Saturday Field Trip: Meet at Hydraulics Lab, Civil Engineering Department, University of South Carolina

Address: 300 Main Street, Columbia, SC

Cost: TBA

South Carolina Continuing Education Credits: TBA **North Carolina Continuing Education Credits:** TBA

Summary of Field Trip:

The site visits will be led by Dr. Ali Tabrizi and Dr. Lindsey LaRocque. While conducting research at the University of South Carolina, they investigated over 20 impaired dams, following the historic flooding in the Midlands of South Carolina in October of 2015. The site visit will include 2-3 locations that were impaired during flooding. Old Mill Dam is an earthen dam located in Lexington County and is no longer impounding any water. Old Mill was one of the largest dams destroyed during the flooding, with a breach depth over 7 m. Another dam location that we will be visiting is Lake Elizabeth, located in Richland County. Prior to the storm, Lake Elizabeth dam had a roadway over the top, and remains in disrepair. This is the case for many of the impaired dams following the storms. Another potential site visit location is the Gibson Pond Dam, located in Lexington County. Further details concerning each dam location can be found in: "Embankment Failures during the Historic 2015 October Flood, South Carolina: Case Study" (2016) in the Journal of Hydraulic Engineering.



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Education News

By Randy Bechtel, North Carolina Geological Survey

2017 North Carolina Science Teachers Association Professional Development Institute (NCSTA-PDI)

AEG Support of the Outstanding Earth Science Teacher (OEST) and Educator (OESE) award winners

The 2017 North Carolina OEST winner is Annette Bartlett from Harris Road Middle School in Cabarrus County. Annette was also chosen, from among other state winners in the Southeastern Section of the National Association of Geoscience Teachers (NAGT), as the Southeastern Section winner of the OEST award. This is the second year in a row that the N.C. OEST winner made it to the highest level of this program by winning the section-wide award. Bartlett said, "As a teacher, it is nice to be recognized for all the hard work, I put into my classroom so the students can have a Global Project Based Learning Environment which will allow them to see how Earth Science connects to the world."

The 2017 North Carolina OESE winner is Jennifer Brooks from the Durham County Soil and Water Conservation District. Thanks to the Board for the additional support of the OESE award this year. The additional funding was much appreciated and permitted the two award packages to remain equal. Brooks said "As an Earth Science Educator, and like all others in this field, I do this job because of a passion to connect people with nature, not for prizes and awards. But when one is recognized for their hard work and dedication with an honor such as this one, it gives validation that what you do is appreci-ated and celebrated. Thank you for providing such recognition and opportunities to me and all Earth Science Educators throughout the state of North Carolina."



Left-right: 2017 N.C. OESE winner Jennifer Brooks; 2017 N.C. and Southeastern Section OEST winner Anette Bartlett.

AEG grant to support teachers attending the NCSTA-PDI

For the first time, the Carolinas Chapter offered grants to assist teachers in attending the N.C. Science Teachers Association Professional Development Institute (NCSTA PDI). This is the annual statewide professional development institute specifically for science teachers. The grants provided registration for three teachers to attend the PDI. Three teachers were competitively chosen from fifteen applicants to receive a grant.

The three grant recipients all teach the high-school Earth/Environmental Science course in addition to classes in other sciences. Two of the grantees, Lia Biscardi a second-year teacher at South Central High School in Pitt County, and Chase Smith an early career teacher at Pisgah High School in Haywood County, were first-time attendees at the NCSTA PDI.

(Continued on Page 12)

(Continued from Page 11)

The third grantee, Mark Case, is an experienced teacher serving Title I (socioeconomically depressed) students at Southern Guilford High School, in Guilford County. The three grantees geographically represent the entire state from the mountains to the sea.

The three grantees sent thank you letters to the Board Members of the Carolinas Chapter, here are excerpts:

Biscardi wrote:

"I cannot thank you or your chapter enough for allowing me to attend the NCSTA conference. It was my first NCSTA conference and I truly enjoyed my experience. You allowed me to expand my knowledge of vocabulary strategies and advancing my career by networking with other professionals. I hope everyone can receive this generosity and appreciate the value of continuous education for educators. It is a blessing to have an organization support our educators and appreciate what we would like to do to help our students."

Smith wrote:

"Thank you so much for the opportunity to attend the NC Science Teachers Association Professional Development Institute last month! Your support allowed me to take part in this event when I otherwise would not have made it. I am a third-year science teacher at Pisgah High School in Haywood County. This was my first time attending the conference, and I was thrilled to connect with so many colleagues from across the state and learn so much from the events. I normally teach chemistry and physics, but this spring I'll have 2 sections of earth/environmental science [EES], so this allowed me the opportunity to plan ahead and get some great resources to be better prepared to give EES my best."

Case wrote:

"My attendance also allowed me to meet with educators from elementary to high school and network how to include geology in every aspect of science. It does not have to be solely taught in earth science. Geology is included in every part of our lives. Making those connections for educators was inspirational. "



Left to right: AEG grantees, Mark Case and Lia Biscardi, attending the 2017 NCSTA-PDI.



AEG grantee, Chase Smith, attending the 2017 NCSTA-PDI.

Thank You from Randy Bechtel

As the N.C. Geological Survey Education Geologist, I would like to thank the AEG Carolinas Chapter for its continuing sponsorship and support of the N.C. Outstanding Earth Science Teacher (OEST) award, the N.C. Outstanding Earth Science Educator (OESE) award, and for the additional support of the OESE award this year. I would also like to thank the Chapter for offering grants to assist teachers in attending the N.C. Science Teachers Association Professional Development Institute (NCSTA PDI). Teachers and Educators face many challenges and the support of the Carolina's Chapter, as you can see from the quotes above, is really appreciated.

2018 Combined National AND North Carolina Science Teachers Association Area Conference Different date and location this year! www.nsta.org/conferences

- a. The National Science Teachers Association (NSTA) holds Area Conferences each year which combine the national and a state science teacher's associations. The Area Conferences rotate through states in a region and every 5 years the NSTA combines with the North Carolina Science Teachers Association (NCSTA) in Charlotte, N.C.
- b. The combined <u>NSTA-NCSTA Area Conference</u> will be held Thursday, November 29 Saturday <u>December 1, 2018 in Charlotte</u>.
- c. This conference usually attracts thousands of teachers from North Carolina, the Southeast and from across the country.

More details to come.

<u>The North Carolina Science Festival</u> (NCSF) The entire month of April 2018! <u>www.ncsciencefestival.org</u>

- a. The 2018 NC Science Festival is going to be bigger than ever before, now with a full month of science from April 1st 30th! If you want to promote the geosciences yourself, or if your company wants to do outreach, this is a great opportunity. Here are some links to get you started www.ncsciencefestival.org/ opportunities-scientists and www.ncsciencefestival.org/host-event. The theme for the 2018 Festival is the "science of food and drink." Not all events need to adhere to the theme. Organizations looking for event ideas or interested in proposing an event can contact ncscifest@unc.edu to consult with Festival staff.
- b. As the N.C. Geological Survey Education Geologist, I can also provide some insight into this event and the process. An "event" can be as big or small as you like. I have presented an all-ages building stone tour of downtown Raleigh (The Rockin' Walkin' Tour) each year for this event. An individual can do a classroom presentation; a company can give a tour of a lab, site, or facilities; or you can volunteer for an event to see what it is all about. The Festival Staff ncscifest@unc.edu can also assist you with ideas about how you can participate. This is a great opportunity to promote the geosciences! And your company!
- c. From the NCSF website: "The Festival, a celebration of science, technology, engineering and math (STEM) and its impact on North Carolina, is the largest science festival in the nation and the first to encompass an entire state. In 2017, the two-week long Science Festival had a presence in all 100 N.C. counties! The NCSF had 240,139 participants and 850 events at schools, museums, community centers, libraries, parks and other venues. Two astronauts, 5,218 volunteers and 2,743 STEM professionals contributed to its success."

Some Love for AEG Carolinas!

Thank You Note from Chase Smith

Thank you so much for your generous gift to allow me to attend the NCSTA conference. It is rewarding for both me and my students.

Thanks so much!

Chase Smith

Thank You from Lia Biscardi

Hello Ms. German,

My name is Lia Biscardi and I am one of the recipients of the grants provided by the Association of Environmental & Engineering Geologists (AEG), Carolinas Chapter to attend the NCSTA conference in Greensboro.

I cannot thank you or your chapter enough for allowing me to attend the NCSTA conference. It was my first NCSTA conference and I truly enjoyed my experience. You allowed me to expand my knowledge of vocabulary strategies and advancing my career by networking with other professionals.

I have already used many of the strategies that were presented to me at the conference and I have received good feedback from my PLCs and administrators. I will eventually present this information to my department so I can spread the joy.

I hope everyone can receive this generosity and appreciate the value of continuous education for educators. It is a blessing to have an organization support our educators and appreciate what we would like to do to help our students.

Thank you again,

Lia Biscardi

Thank You from Mark Case

Dear Ms. German,

I want to say thank you to the AEG for the grant to attend the North Carolina Science Teacher Association annual meeting in October. I am a high school science teacher from Guilford County schools. Without the grant, two very important things would not have occurred during the meeting.

First, my co-teachers and I developed a new linked activity between soil type, rock strata and flora and fauna biome indicators. The lesson was a huge hit and could be scaffolded from elementary to high school.

The second was meeting the members of the Burrows Welcome Fund. Our school has applied for a grant for several years and has never made it past the first reading. The members at the booth remember our grant applications and took over an hour to help us re-write the grant.

My attendance also allowed me to meet with educators from elementary to high school and network how to include geology in every aspect of science. It does not have to be solely taught in earth science. Geology is included in every part of our lives. Making those connections for educators was inspirational.

My attendance may not have directly improved my classroom teaching but you allowed me to have an important impact on others. Thank you.

Mark Case



<u>Support for National Association of Geoscience</u> <u>Teacher</u>

Maddie,

I wanted to send you a thank you for supporting the National Association of Geoscience Teachers. I received the award for Outstanding Earth Science Teacher for North Carolina and The Southeastern Region. As a teacher, it is nice to be recognized for all the hard work I put into my classroom so the students can have a Global Project Based Learning Environment which will allow them to see how Earth Science connects to the world.

Thank You Again for your support. Elizabeth Annette Bartlett

NC Outstanding Earth Science Educator Award Dear Ms. German,

I want to express my sincerest thanks to you for sponsoring the North Carolina Outstanding Earth Science Educator Award. I am truly humbled and honored to be the recipient of the award this year.

As an Earth Science Educator, I like all others in this field, do this job because of a passion to connect people with nature, not for prizes and awards. But when one is recognized for their hard work and dedication with an honor such as this one, it gives validation that what you do is appreciated and celebrated. Thank you for providing such recognition and opportunities to me and all Earth Science Educators throughout the state of North Carolina.

It is so wonderful that you are able to sponsor this contest and I hope you will consider doing so in years to come. It was a great opportunity for me, and I'm sure other educators will benefit from the award as much as I have. If you would, please extend my thanks to the entire Carolina Chapter. I hope that someday I will be able to be as generous as they are.

Gratefully, Jennifer Brooks

Thank you for the support of NC Earth Science Teachers

Dear AEG Carolinas Chapter Chair-Maddie German, Vice Chair-Susan Avritt, and other Board Members,

Thank you for the AEG Carolinas Chapter's continuing sponsorship of the N.C. Outstanding Earth Science Teacher (OEST) award, the N.C. Outstanding Earth Science Educator (OESE) award, and for the additional support of the OESE award this year. It was much appreciated and permitted the two award packages to remain equal. The 2017 N.C. OEST winner is Annette Bartlett from Harris Road Middle School in Cabarrus County. Annette was also chosen, from among other state winners in the Southeastern Section of the National Association of Geoscience Teachers (NAGT), as the Southeastern Section winner of the OEST award. This is the second year in a row that the N.C. OEST winner made it to the highest level of this program by winning the section-wide award. The 2017 N.C. OESE winner is Jennifer Brooks from the Durham County Soil and Water Conservation District.

I would also like to thank the Chapter for offering grants to assist teachers in attending the N.C. Science Teachers Association Professional Development Institute (NCSTA PDI). Fifteen teachers applied for the three grants. The three grantees chosen to receive the grants all teach the high-school Earth Environmental Science course in addition to classes in other sciences. Two of the grantees, Lisa Biscardi, a secondyear teacher at South Central High School in Pitt County, and Chase Smith, an early career teacher at Pisgah High School in Haywood County, were first-time attendees at the NCSTA PDI. The third grantee, Mark Case, is an experienced teacher serving Title I (socioeconomically depressed) students at Southern Guilford High School, in Guilford County.

I ask the Chapter to consider continuing and possibly expanding the grant program. When teachers are able to demonstrate to their Administration that they have obtained outside support, they can make a stronger case to the Administration for school support to attend the NCSTA PDI.

(Continued on Page 16)

(Continued from Page 15)

I know all five teachers appreciated the support provided by the AEG Carolinas Chapter. Thank you for your continued interest and support of earth science teachers across the state.

Sincerely, Randy Bechtel

Follow Up Thank You!

Maddie German and the Carolinas Chapter of the AEG,

Thank you so much for the opportunity to attend the NC Science Teachers Association Professional Development Institute last month! Your support allowed me to take part in this event when I otherwise would not have made it.

I am a third-year science teacher at Pisgah High School in Haywood County. This was my first time attending the conference, and I was thrilled to connect with so many colleagues from across the state and learn so much from the events. I normally teach chemistry and physics, but this spring I'll have 2 sections of earth/environmental science, so this allowed me the opportunity to plan ahead and get some great resources to be better prepared to give EES my best.

thanks for all you do! Chase Smith



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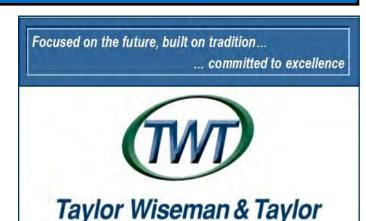
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Summary of Vapor Intrusion: The Conference II

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

The Carolinas Chapter of AEG held its second VI conference at the Hilton Charlotte University Place on October 5 and 6, 2017. The income from our first VI conference in Raleigh in 2014 exceeded expenses by \$25,000, and we were able to make a significant donation to AEG and to establish and seed the Carolinas Chapter scholarship fund. Our chapter decided to host another conference with hopes for a surplus to be generated for the scholarship fund.

We started the planning in January of this year, with hopes and expectations that the 2017 conference would be equally or more successful. With a total registration of 241, it was a success. We held this year's conference in Charlotte to make it more convenient for our members and professionals in the western part of North Carolina, and with the hopes that we'd have an increase in attendance by those in South Carolina, Georgia, and Tennessee.

Having organized a similar conference in 2014, we had a good foundation to start planning the 2017 conference. The planning committee was comprised of Rebecca Deal of Hart & Hickman, Rick Kolb of Duncklee & Dunham, Paul Konnik of ConTest Laboratories, Walt Plekan of AECOM, Grady Shields of Wyrick Robbins Yates & Ponton, Brian Smith of Bridgestone, Jennifer Thomas of JennTec LLC, and Rohit Warrier of Geosyntec.





Angie Frizzell, who was a planner in 2014, after which she left the workforce and moved to Oklahoma, was also a planner. The planning committee held conference calls monthly to track progress and maintain our planned schedule, and had two visits to the hotel to scope out the presentation and exhibitor spaces. The conference included a full day of presentations on Thursday and most of Friday, ending at 2:45 PM on Friday to give registrants, speakers, and exhibitors time to leave town before the start of Charlotte's rush hour. We had 23 speakers from across the United States. Our keynote speakers were Henry Schuver of the U.S. EPA in Washington, D.C.; Dr. Blayne Hartman of Hartman Environmental Geoscience in Solana Beach, California; and Rod Thompson of August Mack Environmental in Indianapolis. On Thursday afternoon, we had a special session on TCE; four speakers of varying backgrounds presented the latest on this topic. At the end of their four presentations, they convened a panel and took questions from the audience. The presentation slides for all of our speakers at the conference are in a public Dropbox at:

https://www.dropbox.com/sh/no0f3qkzaix6iji/ AADMmuAjl6jcDK9qwXPbSmzUa?dl=0

(Continued on Page 19)

(Continued from Page 18)

Registration included continental breakfasts and sit -down lunches each day, beverage breaks both mornings, a beverage and snack break on Thursday afternoon, and immediately following the TCE panel, a reception and hot hors d'oeuvres on Thursday evening. This is the same schedule we followed in 2014. Registration was \$299 for AEG members, \$349 for non-members, \$159 for employees in the public sector, and \$249 for those who joined AEG as part of the registration process. We had offered a similar discount for employees of the public sector at our 2014 conference and attracted about 15 registrants. However, in 2017 we had over 55 employees from local, state, and federal governments, due in large part to the support Jim Bateson, chief of the Superfund Section of the North Carolina Department of Environmental Quality (NCDEQ), and Michael Scott, Director of the Division of Waste Management of NCDEQ. During Dale Andrews' visit as President of AEG to the Carolinas Chapter in January 2017, he suggested we offer a discount to registrants that joined AEG. While the planners were skeptical that this offer would attract much attention, it did work -we were successful in signing up 15 new members.

The conference took place without a hitch; the staff at the Hilton took good care of us and were attentive to our needs and last-minute requests, including the addition of three rooms in which to serve the continental breakfasts and sit-down lunches, which allowed us to almost double the number of exhibitors. Registration until the last week was handled by Yolanda Natividad and Denise Brosie of Offinger Management, after which registration was through the Carolinas Chapter website and PayPal. We had only four people register on-site, which made check-ins simple. Students from the University of North Carolina at Charlotte - Karyn Hoggard, Erik Milde, Stephen Rachide, Aaron Winborne, and Matt Yankech -volunteered to work the registration booth and thus did not have to pay a registration fee.

Our conference attracted 18 exhibitors at \$750 each and three sponsors at costs that ranged from \$750 to \$1,000. While many of the exhibitors and sponsors were already yearly sponsors of the

Carolinas Chapter (and participated similarly at the 2014 conference), others came from other Mid-Atlantic and Eastern states. The fees they paid helped us keep down the cost of registration for the conference, and we thank them for their support. The exhibitors were Atlas Geo Sampling Company, Clean Vapor LLC, Con-Test Analytical Laboratory, Contaminant Control Inc., Ensafe Inc., Environmental Data Resources, ESC Lab Sciences, Geologic Exploration Inc., HEPACO LLC, HERR Inc., HRP Associates, Mills Environmental Insurance Services LLC, Pace Analytical Services Inc., Pine Environmental, SAEDACCO Inc., Shamrock Environmental Corporation, Tersus Environmental, and Vapor Pin Enterprises Inc. The sponsors were Prism Laboratories Inc., Eastern Solutions LLC, and Geologic Exploration Inc.

We offered 12 continuing education units for geologists and engineers, and with the help of one our planners who is an environmental attorney, continuing legal education units for attorneys. The 12 hours of continuing education credit fulfilled the new annual requirement for licensed geologists in North Carolina.

Bottom line, the conference was a success, though financially not as great as in 2014 because the hotel costs were significantly higher than the Embassy Suites we used in 2014. In addition, our income was affected by discounts offered to the large number of public-sector employees and new AEG members. Nonetheless, our income exceeded expenses by approximately \$7,000, so we can make another deposit into our chapter's scholarship fund.



Past Chair Perspective

By Jay Bennet, Section Chair 1992

I was AEG president in the early 1990s. The process of integration into the position took 4 years from Treasurer, then secretary to vice chairman to Chairperson (same as today). Much of the work and the speakers targeted catered to the Geological Engineering component of our business. Then once I became Chairperson, we moved more towards serving the membership by promoting the Environmental Geology discipline. This involved contacting industry leaders to speak about new techniques, regulations and sites that incorporated more of the environmental aspects (i.e., assessment, remediation, emerging technologies) related to what we currently work on today. Moving forward, the transformation of our industry to build upon our past still continues, I feel, which helps to bridge the gap between more traditional industry focus to the newer concepts, ideas and business adventures that provide sustainability for us all.

Thanks for all you do-Jay



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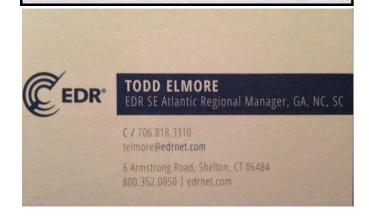
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Meeting Minutes 10-11-2017

By Jennifer B. Thomas, Secretary

- 1. Call to Order, 5:00 pm
- 2. Jacob Hundl, Jennifer Thomas, Josh Hanks, Rick Kolb, Sue Buchanan, Maddie German, Walt Plekan, Jane Gill-Shaler, Paul Weaver, and Rohit Warrior were in attendance. Quorum Obtained.
- 3. Welcome new board members. Anthony Herrmann replaced Courtney as membership chair. Josh Hanks took over GeoNews from Jen Thomas, Jacob Hundl took over the calendar from Josh Hanks and is helping Sue Buchanan with field trips and Rohit Warrior is running social media with Joanna Harbison.
- 4. Carolinas Chapter Finances
 Review of current chapter finances

Checking: \$11,000 Savings: \$15,707.64

Walt will figure out how to set up monthly bank statements to go to national.

- 5. The NCSTA Meeting is planned for October 19-20 in Greensboro. Paul will help most of the day on the 19th and will bring the toolkits. Maddie will email Greensboro area members for help. Rick has the new slide panels for the AEG booth. Eric Cross will transport them to GSO on his next trip. Paul is takin them and will either set up the night before or first thing in the morning.
- Jacob is doing the calendar. Josh is considering a new computer and getting Publisher. Jen will be available for help by phone for his first issue of GeoNews.
- 7. Field Trips:
 - a. Emerald Hollow Mine, Hiddenite, NC is Sat Oct 21st, 9AM -2PM. 4 SC and NC CEUs were approved. The field trip is full.
 - b. 2018 Spring USC Field Trip will be hosted by Lindsey LaRocque and Ali Tabrizi in SC and will include a Columbia, SC tour and a Friday Dinner Meeting Chapter meeting. The trip is scheduled tentatively for March 9-10, 2018. We will visit the

Geotech Lab at the University in the morning, visit one dam before lunch, go to lunch, then visit one to two dams in the afternoon Maddie cannot attend, Susan A. will act as chair for the meeting and field trip.

- 8. Greensboro Meeting Final 40 Year Anniversary Meeting. We estimate 70-80 based on usual turnout, but a head count for food would help. The meeting is October 26th The Public, 433 Spring Garden Street, GSO Cyrus Parker to speak. Maddie will email past chairs reminder and invitation. Potential Sponsor Tables, Already Eastern Solutions (Also wants a drink ticket), We need to double check with other sponsors about exhibiting. Eric & Becca are still on field projects. Space is larger than we need. Ideas to make this meeting unique: Geology trivia, rock ID, normal raffle, Black balloons and streamers if they are allowed in this space. Josh and Rohit can't make it.
- 9. Let's find out the Jahns Lecturer schedule and invite the Jahns Lecturer to the Charlotte meeting if it will work. Susan working with Nashville and Atlanta Chapters to work out scheduling details. Usually the AEG president speaks in Charlotte, but Greg was just at UNCC before the VI conference, maybe let him speak in Raleigh and visit Wake Tech and NCState?
- 10. The VI Conference was overall a great meeting. There were 240 attendees; 20 registered through Paypal after registration through national was over; 4 onsite. Most people preregistered. The hotel was too expensive. We had 55 public sector attendees. The crowd was a very enthusiastic Crowd. We had great sponsors and exhibitors and the conference was well organized.
- 11. 2019 Asheville Meeting: We signed a contract with Asheville Community Theater to have the opening session (\$1,500). Paul is working with Accents on Asheville for guest tours. Asheville Visitor folks have been very helpful. Kudos to Jane (Continued on Page 23)

(Continued from Page 22)

for her great logo. Sheraton and Aloft are proposed for overflow hotels. Rick suggested talks: emerging contaminants, one-day symposium rising sea levels, other environmental topics.

- 12. We should urge students to start applying for the Carolinas Scholarship the fall before since deadline is February 1 and it takes a while to get everything together. We will continue the 50/50 raffles at the meetings.
- 13. Social activities: Held the Durham Bulls game over the summer but unable to get traction in Charlotte or Greensboro. Possibly do a brewpub social over the holiday if someone has time to organize. Any of the cities. Email Maddie and Adam if interested in setting this up.
- 14. Ideas to grow membership in SC: Rick will talk to Sherri about partnering with the Clemson Hydrosymposium. She offered joint meetings. We need to send some people to one.
- 15. Next Call will be early December, look for the Google Doodle Poll.
- 16. Rick noted this was the first meeting agenda completed in several years. Congratulations team!

Adjourn 6:00 PM

Alan King

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CALENDAR OF EVENTS—2017

Geological Events in the Carolinas

Courtesy of AEG Carolinas Chapter—www.aegcarolinas.org. Last updated December 22, 2017 Send updates/corrections to Jacob Hundl, geotex02@gmail.com

Date: Thursday, January 4, 2018

Event: Engineers Without Borders monthly meeting, Re-

search Triangle Park Professional Chapter

Location: 6:30-7:45 PM at the offices of Camp Dresser & McKee; 5400 Glenwood Avenue, Suite 400; Raleigh Details: https://www.meetup.com/EWB-USA-RTP-Chapter/

events

Date: Wednesday, January 17, 2018

Event: NCBLG Board Meeting

Location: State Board of Examiners of Plumbing, Heating

and Fire Sprinkler Contractors, Raleigh, NC

Time: 9:00 am

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

Date: Thursday, January 18, 2018 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Environ-

mental Professionals Presentation: TBD

Cost: Annual fee of \$25 includes pizza, beer and soft drinks

at all meetings

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

tation

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

ilton Boulevard, Columbia, SC

Contact/RSVP: Sherri Scott at sherri.scott@tersusenv.com

Date: Thursday, January 25, 2018

Event: AEG Carolinas Winter Meeting

Location: Draught, 601 S Cedar Street, Charlotte, NC Presentation By: Dr. Kevin T. Finneran, Associate Professor,

Clemson University Environmental Engineering

Time: 5:30pm social begins, 7:00pm buffet dinner, 8:00pm

talk

Cost: Members \$30, Non-members \$40, Public sector \$15, Teachers \$10; Non-members \$60; Students free with ID Reservation Deadline: Thursday, January 18, 2018

Contact: jen@jenntecllc.com

Details: http://aegcarolinas.org/charlotte-dinner-meeting-

jan-25-2018/

Date: Thursday, February 1, 2018

Event: Engineers Without Borders monthly meeting,

Research Triangle Park Professional Chapter

Location: 6:30-7:45 PM at the offices of Camp Dresser & McKee; 5400 Glenwood Avenue, Suite 400; Ra-

leigh

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

<u>events</u>

Date: Monday, February 5, 2018

Event: NC Water Resources Association – Wake County Efforts to protect Private Well Users from Contamination Presentation By: Mr. Evan Kane, P.G., Wake County Depart-

ment of Environmental Sciences

Cost: Members Early-\$20/Late-\$30, Non-member Early-\$30/Late-\$40, Student member Early-\$15/Late-\$30

Time: 11:30am-1:30pm

Location: Jane S. McKimmon Center, Raleigh, NC Details: http://www.ncwra.org/event-2755222

Date: Thursday, February 15, 2018 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Environ-

mental Professionals Presentation: TBD

Cost: Annual fee of \$25 includes pizza, beer and soft drinks

at all meetings

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

tation

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

ilton Boulevard, Columbia, SC

Contact/RSVP: Sherri Scott at sherri.scott@tersusenv.com

Date: Thursday, March 1, 2018

Event: Engineers Without Borders monthly meeting, Re-

search Triangle Park Professional Chapter

Location: 6:30-7:45 PM at the offices of Camp Dresser & McKee; 5400 Glenwood Avenue, Suite 400; Raleigh

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

events

(Continued on Page 26)



GeoNews—Page 26 GeoNews—News of the Profession

WINTER 2017

(Continued from Page 25)

University Spring Breaks

School: University of Georgia Date: March 10-16, 2018

School: North Carolina State University

Date: March 5-9, 2018

School: Appalachian State University

Date: March 5-9, 2018

School: University of North Carolina Charlotte

Date: March 5-9, 2018

School: University of North Carolina Chapel Hill

Date: March 9-18, 2018

School: University of South Carolina Columbia

Date: March 11-18, 2018 School: Clemson University Date: March 19-23, 2018 School: College of Charleston Date: March 18-24, 2018

Date: Friday, March 9, 2018

Event: AEG Carolinas & USC Spring Meeting

Location: 902 Barnwell Strret, Capstone Hall, Columbia, SC Presentation by: Dr. Lindsey LaRocque and Dr. Ali Tabrizi Topic: Dam related studies at the University of South Caroli-

na

Time: 6:00pm-9:00pm, one hour social, one hour dinner,

and one hour presentation

Cost: Members \$30, Non-members \$40, Public sector \$15,

Teachers \$10; Non-members \$60; Students free

Details: http://aegcarolinas.org/news/

Date: Saturday, March 10, 2018

Event: AEG Carolinas & USC Spring Field Trip Location: 300 Main Street, Columbia, SC

Time: TBD Cost: TBD

Details: http://aegcarolinas.org/news/

Date: Thursday, March 15, 2018 (meetings are held on the third Thursday of the month)

Event: Meeting of South Carolina Association of Environ-

mental Professionals Presentation: TBD

Cost: Annual fee of \$25 includes pizza, beer and soft drinks

at all meetings

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

tation

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

ilton Boulevard, Columbia, SC

Contact/RSVP: Sherri Scott at sherri.scott@tersusenv.com

Date: Friday, March 16, 2018

Event: ASBOG Geology Exam

Details: Deadline to apply for the exam is January 26, 2017

(and preapproval to take the exam before that)

Location: McKimmon Center, NC State University, Raleigh

Contact: www.ncblg.org

Date: March 23-24, 2018

Event: AEG-DMV Spring Environmental and Engineering Ge-

ology Symposium

Location: TBD, Radford, VA

Abstract Deadline: Friday, February 18, 2018

Contact: jen@jenntecllc.com

Date: Friday, April 12, 2018

Event: AEG Carolinas Spring Meeting

Location: TBD, Raleigh, NC

Time: 6:00pm-9:00pm, one hour social, one hour dinner,

and one hour presentation

Cost: Members \$30, Non-members \$40, Public sector \$15,

Teachers \$10; Non-members \$60; Students free

Details: http://aegcarolinas.org/news/

Date: April 12-13, 2018

Event: Geological Society of America Southeastern Annual

Sectional Meeting

Location: Hilton Knoxville, 501 West Church Avenue, Knox-

ville, TN, 37902

Abstract Deadline: January 16, 2018 Early Registration Deadline: March 5, 2018 Hotel Registration Deadline: March 20, 2018

Information: https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/se/2018mtg/home.aspx

(Continued on Page 27)



(Continued from Page 26)

University Spring Semester Finals

School: University of Georgia Date: April 27-May 3, 2018

School: North Carolina State University

Date: April 30-May 9, 2018

School: Appalachian State University

Date: May 4-10, 2018

School: University of North Carolina Charlotte

Date: May 3-10, 2018

School: University of North Carolina Chapel Hill

Date: April 30-May 8, 2018

School: University of South Carolina Columbia

Date: May 2-9, 2018 School: Clemson University Date: April 26-May 4, 2018 School: College of Charleston Date: April 25-May2, 2018

Date: September 16 – 22, 2018 Event: AEG Annual Meeting

Location: Hyatt Regency San Francisco, Five Emarcadero

Center, San Francisco, California, 94111

Contact: contact@aegweb.org

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 15 - 22, 2019 **Event: AEG Annual Meeting** Location: Asheville, North Carolina



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INTERNATIONAL	☐ Int'l Member Dues - \$35*
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The Carolinas Chapter of AEG supports many of its activities with financial assistance provided by our sponsors. Our activities include quarterly meetings, periodic field trips and seminars, a quarterly newsletter, and email announcements about our meetings and geoscience related activities. In addition, we donate large quantities of educational resources to science teachers.

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

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