

GEONews



Newsletter of the Association of Environmental & Engineering Geologists and
American Institute of Professional Geologists, Carolinas Sections

Summer 2008

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MARK YOUR CALENDAR!
 SEPTEMBER 15-20, 2008
 "LET THE GOOD TIMES ROLL"
 AEG NATIONAL MEETING,
 NEW ORLEANS, LA
 See Flyer page 13/14

Calendar of upcoming events is on our website
<http://www.AEGCarolinas.org>
 Issue date 21 June 2008

JENNIFER BAUER NOMINATED FOR AEG SECRETARY

By Rick Kolb, Section Chair

The Nominations Committee of the Association of Environmental & Engineering Geologists has announced the nomination of Jennifer Bauer for the position of Secretary of the national organization. This position on the Executive Committee of AEG is Jennifer's first step towards becoming the President of AEG. Jennifer will, I believe, be the first President from the Carolinas Section. Starting in September, Jennifer begins the five-year sequence for officers on the Executive Committee (EC): Secretary the first year, Treasurer the second year, President-elect the third year, President the fourth year (beginning in September 2011), and then one year on the EC as Past President. This is quite an honor for Jennifer, who is only 28 years old. Your section board of directors and committee chairs are extremely proud of her and the honor bestowed on her. Jennifer's nomination also reflects positively on the Carolinas Section and will bring attention to us, which will be helpful as we get closer to hosting the annual meeting in 2010.

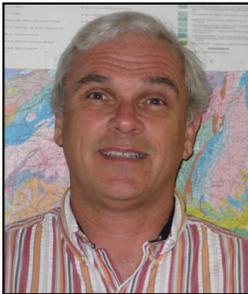
Jenn served as Carolinas Section chair in 2004-05 and continues to participate in our board meetings as our "senior advisor", so we know first-hand that Jennifer has a lot of good ideas for improving our section and AEG. She is co-chair of the Governance Committee, one of the several Operational Committees of our national organization. When Jennifer becomes Secretary this fall, she will likely give up the co-chair position to devote her time to EC business. For those of you who would like to be exposed to all that AEG has to offer, I strongly recommend you volunteer for one of these Operational Committees, which are listed on the "My Member Page" under "AEG Documents" at the AEG website. As chair of the Advocacy Committee, I can attest that you will meet some great professionals on these committees and supplement what you know about geology and geologists.

Jenn was born and raised in Highlands, North

(Continued on page 4)

CANDIDATES FOR 2008-9 CAROLINAS SECTION OFFICES—Be sure to vote!

The following AEG members are running for offices in the Carolinas Section. The ballot for voting is inserted as a separate blue page in this newsletter. Please vote, and send in your vote by snail mail to Carin Kromm, MACTEC, 7347-E West Friendly Avenue, Greensboro 27410.



Section Chair: Rick Kolb, L.G., MACTEC. Rick was born and raised in Columbus, Ohio. He attended Marietta College in Ohio for one year, after which he left the U.S. and lived in Australia for two years and traveled for a year afterwards. Upon returning to the States, Rick was a flight attend

ant for three years before maturing enough to attend college and actually graduate. He received his bachelors in geology from the University of Montana in Missoula and his master's in geology from the University of Texas at Austin. Rick worked for Mobil Oil in New Orleans from 1982 to 1990, when he quit to move to the more moderate climates of Raleigh and work for Law Engineering. He is a principal geologist in the environmental group for LAW/nw MACTEC, though for a couple years he worked on LAW's geotechnical contract with NCDOT. He has been the chair of the Carolinas Section since 2006 and is chair of the Advocacy Committee of the national organization. His love of travel remains (regular trips to New Orleans are a priority), along with playing soccer and, most importantly, riding motorcycles.

Vice-Chair: Paul Weaver, L.G., Trigon | Kleinfelder. Paul is a Licensed Geologist in both North Carolina and South Carolina. He earned his geology degree from the University of North Carolina at Wilmington in 1981. Since graduation, he has worked as a hydrocarbon well analyst in the oilfields of Texas and Louisiana, as the geologist for a limestone mining operation, as a subgrade chemical stabilization specialist with the



NCDOT, and at various positions in various engineering consulting firms.

Paul is currently the Assistant Division Manager and Geotechnical Unit Manager of the Transportation Division of Trigon|Kleinfelder. He is very excited at the opportunity to be Vice President of the Carolinas Section of the AEG. He has been an AEG member for over six years, but was not able to be as involved as he would like due to other commitments. Now that the commitments that had limited his participation have been completed, he looks forward to helping move our section forward. Paul resides in Greensboro, North Carolina with his wife and 10-year old son.



Secretary: Kristen Lloyd. Kristen is a staff geologist for MACTEC in Greensboro. She graduated in 2007 with a Masters degree in geology from NC State. She has worked as a TA for the geology labs at NC State and as a volunteer for the Tarheel Gem and

Mineral Club annual gem and mineral show for the past 4 years. She has been an AEG member for 2 years, and is excited about the opportunity to become more involved in the Carolinas Section of the AEG.

Treasurer: Dave Duncklee, L.G., Duncklee & Dunham, PC. Dave is the president/senior hydrogeologist of the firm and has worked as an environmental consultant for 23 years. He has served the Ground Water Professionals of North Carolina as President, and has assisted on committees with the NGWA and the ITRC. He is licensed/registered as a geologist in North Carolina, Georgia, and Tennessee, is a North Carolina DENR registered site manager, and is a member of the NGWA and the AIPG. Dave and his wife live in Cary and stay busy with their five children.



TEE-SHIRT CONTEST DEADLINE EXTENDED TO DECEMBER 21 2008

The deadline for the Tee-Shirt design for AEG Carolinas has been extended to December 21, 2008. There is an award of \$100 for the winning design, which will be judged by the AEG Carolinas Board. Submit in jpeg format and email to: RAKolb@mactec.com. More information on the contest is in of Spring 2008 GeoNews.

MESSAGE FROM THE CHAIR *By Rick Kolb, AEG Carolinas Section Chair*

As noted in the front-page article, the Carolinas Section is very excited and proud to have one of our own, Jennifer Bauer, nominated for the position of Secretary of AEG. Jennifer served as section chair in 2004-05 and continues to participate in our board meetings as our “senior advisor”. She also is co-chair of the Governance Committee, and as such, is involved with the Board of Directors on a regular basis. She is a true asset to our section and AEG national, and if all goes according to plan, Jenn will be (I believe) the first member of the Carolinas Section to be AEG President.

The Carolinas Section had our first meeting in Chapel Hill, at the Friday Center on April 14. It

was also our first meeting on a Monday, to fit the travel schedule of our speaker, Jahns lecturer Dr. John Clague. Our intent was to attract students from UNC-Chapel Hill to the meeting, similar to what we did last spring when we had the Jahns lecturer at NCSU and a dozen students attended. At our meeting in Chapel Hill, 25 attended, but only three students: Karyn Snyder and Evan Riddle of NCSU and Kyle Samperton of UNC.

Yes, a disappointment in both the turnout and the lack of students. But vice-chair Carin Kromm sat with them at dinner and turned lemons into lemonade by persuading Evan and Kyle to be

(Continued on page 4)

SPONSOR A STUDENT
By Rich Lovett, Section Secretary

If you haven’t already received your AEG membership dues renewal notice, you will soon. Please take note of a new item on the form, the opportunity to sponsor a student membership for only \$25. The idea of sponsoring students’ membership dues was developed in the Carolinas Section. They are actively seeking and supporting student members, and the section continues to innovate and thrive through this and other initiatives.

Many other sections also actively support their student members by providing reduced or no cost attendance at section meetings, and by providing scholarships. AEG has been inspired by the Carolinas and other Sections to make the student membership sponsorship opportunity association-wide. You can make a difference in a future colleague’s education and career by sponsoring a student membership. Student members enjoy the many benefits of AEG membership that we all do, including subscriptions to the journal Environmental and Engineering Geoscience and the quarterly AEG News, access to the Members Only portion of the AEG website, and networking opportunities.

Also important for students are the chances to apply for AEG scholarships through the AEG Foundation, and opportunities to meet potential future employers at AEG Chapter, Section, and Annual Meetings. Help build the future of our profession by supporting a student today – sponsor a student member’s dues when you renew!

GeoNews is a publication of the Carolinas Section of AEG. There are four issues per year, with deadlines and issue publication dates listed below. We publish news of the profession, technical articles, and job openings.

Deadlines can be flexible depending on events
 Spring – deadline March 1, issue date March 21
 Summer – deadline June 1, issue date June 21
 Fall – deadline September 1, issue date September 21
 Winter – deadline December 1, issue date December 21

Deadlines for submittals for the National AEG News:
 March issue – January 21
 June issue – April 30
 September issue – July 31
 December issue – October 31

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 Treasurer Raymond Knox, treasurer@aegcarolinas.org
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Emeritus Newsletter Editor Phil Winchester, Jr.

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come co-chairs with Carin for the section membership committee. Evan and Kyle felt that they could find more students to attend our meetings and join AEG. Thus, you will see these two students listed in our bulletin on the membership committee, (see page 3) and we welcome them to AEG. As our members know, the board recently decided to pay the \$25 for student memberships from the section treasury. This policy has helped increase our student membership to 10 in less than two months, and we hope for more in the fall once classes resume.

John Clague arrived at RDU on Sunday afternoon, and chair Rick Kolb took John on a tour of the Triangle. We drove to Chapel Hill and toured the campus by car, followed by lunch and a couple of beverages at the Carolina Brewery, over to Durham for a tour of Duke, and then to Raleigh for a tour of NCSU. John stayed the night in Raleigh and then gave his talk on tsunamis on Monday afternoon to students and faculty at the Marine, Earth and Atmospheric Sciences department at NC State University, followed by his presentation to our Section members that evening in Chapel Hill. On Tuesday, I drove John to Columbia and passed him to Section treasurer Raymond Knox, who took John to his alma mater, USC, to speak, after which John traveled to Charleston and spent Wednesday at the College of Charleston with geology professor Dr. Briget Doyle, chair of AEG's 2010 annual meeting in Charleston. Thus, John made four presentations in three days, and then flew back to British Columbia for his real job.

We urge you to attend the annual meeting in New Orleans in September. See the announcement elsewhere in this newsletter for details. It is sure to be a good meeting, and the venue is fantastic (we had the 2006 midyear board meeting at the same hotel). Want to see the results of the levee failures, and hear some reasons for the failures? Come to New Orleans.

If you've never been to an annual meeting, I urge you to go this year; you will learn a lot, meet great geologists from all over the world, and help that city recover from Katrina. This meeting will be a preview to the 2010 annual meeting that our section will host. Speaking of which, please see the article elsewhere in the newsletter (page 24) about the management positions available for hosting the meeting. Briget will need a lot of help, and it's up to us to provide that help.

Also, if you have concerns about the uncertain future funding for the landslide hazard mapping program, please convey them to your legislative representatives. The complete story is in the Asheville Citizen Times at <http://www.citizen-times.com/apps/pbcs.dll/article?AID=200880618090>.

Have a great summer. Our next meeting won't be until after the annual meeting, so I'll see y'all in New Orleans. And for those of you who do come, I'll buy you a couple beers in places off the beaten path.

Rick Kolb, chair

AEG Carolinas

Chair@AEGCarolinas.org

Jennifer Bauer Nominated—Continued from page 1

Carolina, and received her geology degree from UNC-Chapel Hill in 2001. She worked for LAW Engineering from 2001 to 2005, first in the geotechnical group and later as the CMT laboratory manager. It was a LAW where I met Jenn, and she recruited me to serve on our section board. She was highly thought of at LAW, and we were sad to see her leave.

However, the desire to return to the mountains (who can blame her for that?) led her to take a job in 2005 with the Landslide Hazard Mapping Program of the North Carolina Geological Survey in Swannanoa. Jennifer is married to fellow geologist Brian Bauer, who works as an environmental consultant for a firm in Asheville, and they have a Golden Retriever and a cat at home. Jennifer's free-time activities include mountain biking and participating in adventure races.

Please congratulate Jennifer when you see her at the annual meeting in New Orleans, which I am sure many of you plan to attend.

 Environmental, Industrial & Recycling Services	
<p>Al King Sales Representative Project Manager</p> <p>alk@egarco.com Mbl: 919-451-3960</p>	<p>P.O. Box 1907 Asheboro, NC 27204 2503 N. Fayetteville St. Asheboro, NC 27203</p> <p>Phone: 336-683-0911 Fax: 336-683-0811 www.egarco.com</p>

8th Annual Technical Forum
Geohazards in Transportation
 In the Appalachian Region

Marriott Hotel

August 5 to 7, 2008, Charleston, WV

This annual Technical Forum has produced excellent, state-of-the-art, practical presentations and discussions related to geohazards in transportation within the Appalachian region. The Forum is organized by a coalition of government and private entities from across the Appalachian states representing the disciplines of geology, Engineering, Earth Science, Design and Construction professionals in transportation.

Abstracts: Send abstracts (~150 words) to respective Session Chair.

Forum Session

		Session Chair
1. Hydrologic & Hydrogeologic Investigations	Kirk Beach, ODOT	(614) 274-1342; kirk.beach@odot.state.oh.us
2. Seismic Hazard, Risk Assessment & Transportation Infrastructure Management	Wael Zatar, Marshall	(304) 696-6043; zatar@marshall.edu
3. Extreme Geotechnical Construction	Steve Brewster, USACE	(304) 529-5279; steve.brewster@rlh01.usace.army.mil
4. Site Characterization for Transportation Infrastructure	Vanessa Bateman, TNDOT	(615) 350-4137; vanessa.bateman@state.tn.us
5. River processes & Influence on Geohazards	Scott Eaton, James Mason	(540) 568-339; eaton@jmu.edu
6. Remote Sensing	Jane McColloch, WVGS	(304) 594-2930; janemc@geosrv.wvnet.edu
7. Subsurface Investigation Innovations	Jody Stanton, USACE	(615) 736-7906; john.i.stanton@usace.army.mil
8. Modelling and Simulation	Jim Fisher, WVDOT	(304) 558-2885; jfisher@dot.state.wv.us

Forum Information Contact: Tony Szwili (MU-CEGAS) 304-696-5457(Fax 696-5454), szwili@marshall.edu or Kirk Beach (ODOT) 614-275-1342, kirk.beach@dot.state.oh.us.

Exhibitor Information: This event has been a good opportunity for exhibitors. A limited space exhibitors room will be available. For exhibitor contact Barbara Roberts at 304-696-7103 or e-mail robertsb@marshall.edu

Registration and Hotel Information: Contact Barbara Roberts at 304-696-7103 or e-mail robertsb@marshall.edu

Sponsors: Nick J. Rahall, II Appalachian Transportation Institute (RTI); and the Center for Environmental, Geotechnical and Applied Sciences (CEGAS), Marshall University.

AEG'S MEETINGS DIRECTOR TO RETIRE

Email from AEG

AEG recently received the following letter from Julie Keaton, our Meetings Director. We support Julie's decision, and wish her the very best in her retirement.

The Board of Directors met mid-May and have already started succession planning for the Association's meeting planning functions. A search committee has been appointed and includes: Mark Molinari, AEG VP/President-Elect; Gary Luce, Annual Meeting Committee Chair; Mike Hattel, Annual Meeting Committee Member; Greg Hempen, Annual Meeting Committee Member and Board members Josh Fortmann and Dan Burns.

This committee will soon send a Request for Proposal to interested companies and individuals. In addition, we encourage members who may be interested or know of a meeting planning firm or consultant that would be a potential candidate to submit their names and contact info to Gary Luce at luce@geoconinc.com or (775) 267-0566.

The Request for Proposal will be sent to interested parties in early June with proposals due three weeks later. Finalists will be selected by the end of June and invited to present their proposal to the Executive Council, Annual Meeting Committee and Julie Keaton in mid-July in Denver.

The intent is to have someone under contract so they can attend the 2008 New Orleans meeting and assist Julie to learn how we operate and all that Julie does at a meeting.

I have been AEG's Meetings Director since 1997 and have decided to retire effective December 31, 2008. The decision was a very difficult one for me as I have thoroughly enjoyed working for AEG over the last 13 years. I will continue working on the 2009 Shlemon Specialty Conference and hope to work on other smaller AEG projects in the future.

Along with the Executive Council (EC) and AEG's COO, Becky Roland, I will assist with the interview process for a new Meetings Director. I already have given the EC a list of qualifications that a new Meetings Director must have. I plan to assist the new Meetings Director to ensure that the transition is as smooth as possible and that all future annual meetings are enjoyable experiences for meeting attendees and financially satisfactory for AEG.

During my term of service to AEG I have worked, not only as your Meetings Director, but also as Continuing Education Director, Advertising Director, and Directory Editor. I have kept the Annual Meeting Planning Guide updated and served on the Strategic Planning Committee and the Annual Meeting Planning Committee. I have also produced many of AEG's award certificates and plaques, and worked on numerous other projects, as well.

The AEG members I have worked with over the years have been the best. To me, AEG is family so I will still come to the annual meetings, only this time as a guest (and maybe even attend some of the fun guest events). Thank you for your support over the years!

Julie Keaton, AEG Meetings Director

 <p>Environmental Conservation Laboratories</p>	<p>Cary, NC Lab: ENCOCRY@encolabs.com Tel: 919-677-1669 Fax: 919-677-9846</p>	<p>Orlando, FL Lab: ENCOORL@encolabs.com Tel: 407-826-5314 Fax: 407-850-6945</p>
	<p>Jacksonville, FL Lab: ENCOJAX@encolabs.com Tel: 904-296-3007 Fax: 904-296-6210</p>	<p>Corporate Office: 10775 Central Port Drive, Orlando, FL 32824</p>

FIRST GEOSCIENCES CON- GRESSIONAL VISITS DAY SEPTEMBER 9-10, 2008

Condensed from an Email from AEG

Join us for the first Geosciences Congressional Visits Day (Geo-CVD) on Tuesday and Wednesday, September 9 and 10, 2008. This event brings geoscientists, engineers, researchers, educators, and executives to Washington to raise visibility and support for the geosciences. Participants will spend the first day, Tuesday afternoon, September 9, at AGU headquarters (2000 Florida Ave NW, Washington DC) learning about how Congress works, the current state of the budget process and how to conduct congressional visits.

The next day, Wednesday, September 10, would be devoted to visits with members of Congress on Capitol Hill between 9 am and 5 pm. You may conduct the visits in small groups depending on the number of participants from any given state or district.

Basically you need to plan to be in DC for two full days, and there would be many, many opportunities to meet other geoscientists, policymakers, and federal agency representatives. Help us make the first Geo-CVD a success and convey the value of the geosciences to policymakers.

The event is definitely happening and we hope to have lots of geoscientists participate. Geo-CVD will be coordinated by Washington DC staff from the AGI, the American Association of Petroleum Geologists, the American Geophysical Union, the American Society of Limnology and Oceanography, the Geological Society of America, the Seismological Society of America and the Soils Science Society of America.

It should be a very interesting event. Please let us know if you can participate. There is some info we would need from you and we can also help with some travel logistics (no travel funds though) by emailing to the address below. Becky Roland (broland@aegweb.org), AEG Executive Director and Dorian Kuper

(dorian@kupercon.com), AEG President, are both planning to attend. Please contact AGI's Government Affairs staff for more information and to volunteer to participate by sending an email to Linda Rowan at govt@agiweb.org.

Linda Rowan

Director of Government Affairs

American Geological Institute

4220 King St

Alexandria VA 22302

OCTOBER 16, 2008 SECTION MEETING PLANS IN THE WORKS

Keep the date open for our Fall Meeting, tentatively planned to be held at a winery near Greensboro (location to be announced later) on Thursday, October 16, 2008. The speaker will be Dorian Kuper, AEG President. She will be accompanied by Dr. Darrel Schmitz, past AEG President. Dorian will also speak at the College of Charleston and tour the Francis Marion Hotel, which is the location of AEG's 2010 Annual Meeting.



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GEORAMBLINGS

By Dr. Charles W. Welby

*Between the daylight and the dark,
When the day is starting to glower,
Comes a time for a start in the day's activities,
Which is known as the Oatmeal Hour.*

*I watch through the door of the microwave,
First the bubbling within the pane,
And then the rising of the oatmeal masses,
Which with banana slices wander like Suspect
Terrane.*
(With apologies to Henry Wadsworth Longfellow)

One morning while watching through the microwave pane, it occurred to me that the oatmeal was reverse “subducting” up onto the lip of the soup bowl within which it was cooking, and then and there a GeoRamblings column was generated, one concerned with some early evidence and thoughts which attempted to explain the origin of continents and island arcs and, in a broader sense, the geologic history of the earth.

To begin, the Historical Geology textbooks that were used when I was an undergraduate defined the source for the sediments and the contributor to the events in the Appalachian Mountains as “Appalachia,” a continent hidden by clouds on the maps. The forces that caused the folding of the Appalachians were left largely unexplained other than being recognized as mainly “compressive.” Similarly, the sources of the sediments and some events for the Pacific Coast Ranges and the Rocky Mountains were hidden beneath clouds along the west coast, and the continents beneath the clouds were known as “Cascadia.” Simple enough, I guess.

Alfred Wegner’s ideas of continental drift were not acceptable to the general geologic community at the time; others, notably DuToit and Holmes, provided arguments in support of the idea that the continents had moved across the face of the earth. Most of the arguments in the first half of the 20th Century focused on evidence from structural geology and geomorphology although the paleontologic evidence was also recognized and discussed. That South America and Africa were once joined seemed plausible enough, given the presence of the same Gondwana Land fauna and flora on both continents and similarities in geo-

logic structures and stratigraphy on each continent along the line where they were supposedly joined. Since both the fauna and flora were terrestrial, the existence of a land bridge was the most simple and easiest explanation.

One of the most interesting of the early investigations associated with the progression of ideas that ultimately led to the paradigm of “Plate Tectonics” was the gravity measurements made at sea by Felix Andries Vening Meinesz, a Dutch geophysicist and geodesist.

Following WWI, Meinesz developed a gravimeter that could be used at sea and which could account for ship motion caused by waves. He was able to utilize Dutch WWI submarines in the 1920s to get below the surface to avoid the surface waves and to make gravity measurements in the Sumatra Trench and elsewhere in the oceans. The submarines were certainly cramped quarters for the tall Vening Meinesz (approximately 6 ft 6 in tall).

The measurements showed that a large gravity anomaly existed along the trench. The association of the trench, large gravity anomalies, volcanic activity along the Indonesian island arc, and the abrupt differences in elevations of the land surface, made for intriguing explanations about the development of island arcs and continents. The conclusion had to be that somehow the earth’s crust was being or had been pushed together at the loci of the trenches.

Several books were published reflecting this new information. Vening Meinesz in his 1964 publication (*The Earth’s Crust and Mantle*, 2nd Edition, Elsevier Publishing Company) summarizes much of the information and references the stream of publications from the 1930s and 1940s. He notes that the island arcs represent one of the greatest systems of crustal deformation and that the two most investigated island arcs at the time of

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Stop Guessing . . . Know What's Down Inside Your Well

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publication (1st edition) were the Indonesian and the Caribbean Island arcs.

Vening Meinesz in the 1940s demonstrated that the compression of the Asiatic block and the Australian-Indian Ocean block could be used to explain the direction of shear movement with respect to the Indian Ocean. That shear movement apparently is most recently reflected in the offset of the fault causing the December 2004, tsumanis in the Indian Ocean.

Other ideas about the interpretations of the gravity fields and the history of the earth are eloquently discussed in Umbgrove's book, *"The Pulse of the Earth,"* Martinus Nijhoff, 1947. Umbgrove's book. *"Symphony of the Earth,"* Martinus Nijhoff, 1950, provides insight into geologic thinking about earth's history and tectonic structures on a global scale. It is an entertaining read even today but at the same time is not an "easy" read. The book, nevertheless, is important as record of a step in geologic thinking.

Two recollections come to mind of events during the development of the modern thinking related to Plate Tectonics. A personal note comes to mind, first. At an early time in my university career, there was a copy of a physiographic map of Asia hanging on the wall behind the desk at the front of the lecture room. It was almost impossi-

ble, given that map, to deny the fact that India had somehow banged up against the underside of Asia. The Himalayan Mountains stood out like the ripples in an automobile fender after a collision with another car at some road intersection— a fender bender of continents, if you will. The equipment, tools, and the oceanographic exploration necessary to substantiate eventually the spreading of the Atlantic Ridge and the presence of the fracture zones were under development or in their early application to data collection. So despite the slowly accumulating evidence the ideas that the several continents were once joined in some fashion and then separated, perhaps repeatedly, was not a popular concept. And that India had "T-boned" Asia was certainly not accepted. Geosynclinal theory ruled the roost.

The second instance which comes to mind occurred when Robert Dietz, one of the first people to develop a strong presentation on the concept of Plate Tectonics, gave a seminar in the late 1960s at N.C. State University in the then Geosciences Department. His final slide showed two Brontosaurus-like dinosaurs drifting apart on pieces of Cretaceous continents with facial expressions of concern and much evidence of broken hearts floating above the individual's heads.

Finally, despite the gravitational data, the theory of colliding plates, evidence of associated stress distribution from theoretical mechanics, presence of subduction zones together with their associated earthquakes, and the existence of various types of igneous rocks in geographically critical places, the real reason for the volcanoes associated with island arcs and colliding earth plates is summarized in the chorus sung by the trouble-making characters found in Scene 1, Act 4 of MacBeth:

(Continued on page 10)

Soil Solutions, Inc.
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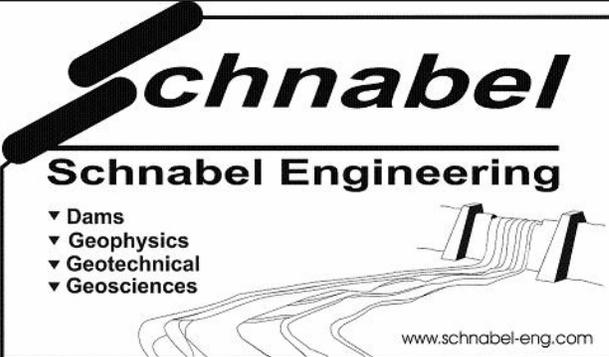


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(Continued from page 9)

*“Double, Double, Toil and Trouble,
Fire Burn, Cauldron Bubble.”*

These individuals with black, wide-brimmed, pointy hats cause all sorts of trouble. Depending upon the particular soup that they have cooking, there are different volcanic responses and different rocks formed. In the case of Krakatoa on August 27, 1883, they put into the cauldron too many frog toes and toads. (For an alternate explanation see the book by Simon Winchester.)

Charles W. Welby

Dr. Charles W. Welby is a former Section Chair for AEG Carolinas and a regular contributor to this newsletter. He may be reached at cww_ral@hotmail.com.



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REPORT ON “GRANITE AND MARBLE BY MALAVE” FIELD TRIP

By Jane Gill-Shaler, Editor

A number of geologists and their guests, hungry for Brazilian food and a look at some amazing rocks, converged on the showroom and workshop of “Granite and Marble by Malave” in Greensboro on April 17.

Len Malave, the owner, is a third generation stone fabricator, and has been offering barbecue and business at the workshop for many years. Len’s facility has a wide variety of huge slabs of rock, varying from 20 to 30 millimeters in thickness, and about 8 feet by 12 feet in area.



The geologists had a great time trying to identify the rock types, and to guess the provenance, while chowing down on some of the best (free!) food

in the area.

The rock comes from Italy, Brazil, Africa, and other sources all over the world. We saw meta conglomerates, meta cross bedded sandstones, giant agate, marbles, crenulated schist, and even one or two pieces of true granite.



Gary Rogers, who organized the Field Trip for AEG Carolinas, and new member Kristen Lloyd gave an impromptu talk on some of the rock slabs. Of special interest were some strained meta-conglomerates, quite similar to the Orvinfjellet Conglomerate, one of the formations in Gary's Masters

Thesis area in the Arctic.

Len Malave holds open houses at his warehouse and fabrication shop each month during the summer. Len has stated that geologists are always welcome. Len@graniteandmarblebymalave.com is his email, if you would like to attend one of the open houses.

The showroom was spectacular, and included one unbelievable slab in back of a very modern washbasin. To see it for yourself, visit the showroom or see it on the Malave website at graniteandmarblebymalave.com/. The Carolinas Section of AEG is very grateful to Len and his family for a wonderful evening of rock and talk.



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PLATE TECHNICS #30 FROM AEG NEWS

By Rex Upp—reprinted by permission

The big 30 plate is our first from North Carolina. Member Paul Weaver (see bio, page 2) got



this plate in 2005 when he worked for Trigon Engineering Consultants in Greensboro (*Ed: Now Trigon/Kleinfelder—see page 21*). For several years he had debated getting a personalized tag based on his profession and was quite surprised to find this one still was available. People often tell Paul it's spelled wrong—till he reminds them he only gets eight letters. If you have or know of an AEG member who has a geology-related license plate, please contact Rex Upp at rex@uppgeo.com.

AIPG INVITES ARTICLE SUBMISSIONS TO TPG

By Wendy Davidson, AIPG

You are invited to submit an article, paper, or guest column based upon your geological experiences or activities to the American Institute of Professional Geologists to be included in "The Professional Geologist" (TPG) bi-monthly journal. The article can address a professional subject, be technical in nature, or comment on a state or national issue affecting the profession of geology.

Article submissions for TPG should be 800 to 3200 words in length (Word format). Photos, figures, tables, etc. are always welcome! Author instructions are available on the AIPG website at www.aipg.org.

Please contact me if you have any questions. I look forward to hearing from you.

Wendy Davidson
AIPG National Headquarters
wjd@aipg.org

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AEG•2008

New Orleans... is one part fantasy, one part mystical metropolis and several parts sweet romance. New Orleans is a city that is made up of people from many different backgrounds sharing many wonderful neighborhoods. It has old customs like Mardi Gras which locals and tourists alike look forward to each year, as well as new customs like Jazz Fest, which has become a big hit in recent years. They are just more reasons for locals to love New Orleans and visitors to enjoy coming each year. Besides our major events, history and architecture, the food and restaurants of New Orleans stand out in the South and are on a par with any city in the world. Most visitors can't come to the 'Big Easy' and not put on a few pounds and love it while they are doing it. There is an unmistakable love of life in New Orleans and it can be seen in the many festivals and fairs most unique city in America.

◆ TECHNICAL PROGRAM

The technical program (September 17, 18, & 19, 2008) will focus on:

- ◆ Coastal/Floodplain Processes
- ◆ Construction Geology
- ◆ Dams/Levees
- ◆ Environmental Geology
- ◆ Forensic Geology
- ◆ Geophysics
- ◆ Geotechnics
- ◆ Groundwater
- ◆ Landslides/Slope Stability
- ◆ Profession Practice
- ◆ Remote Sensing/GIS
- ◆ Rock/Soil Mechanics
- ◆ Seismic Hazards
- ◆ Site Characterization
- ◆ Subsidence
- ◆ Tunneling

◆ SYMPOSIA

- ◆ Hurricane Katrina and Mechanism of Failure
- ◆ New Madrid Earthquakes
- ◆ Coastal Geology
- ◆ Coastal Hazards
- ◆ Coastal Protection – New Orleans
- ◆ Tunneling

◆ FIELD TRIPS

- ◆ Slope Stability – Mississippi River Bluffs
- ◆ Hurricane Katrina Devastation Area
- ◆ Avery Island Salt Dome and Tabasco Tour
- ◆ Civil War Military Geology – Vicksburg Campaign
- ◆ Coastal Geology – Barrier Islands
- ◆ NASA–Stennis Space Center

◆ SHORT COURSES

- ◆ GIS
- ◆ OSHA 8-hour

◆ GUEST TOURS

- ◆ Good Morning New Orleans Walking Tour
- ◆ River Road Journey – Antebellum Life
- ◆ Garden District Tour with Lunch at Commander's Palace
- ◆ Honey Island Swamp – Eco Tour

◆ TEACHERS' WORKSHOP

The Teachers' Workshop will be held on Saturday, September 20, 2008 at the JW Marriott Hotel.

◆ SPECIAL EVENT

Mardi Gras Parade and Reception

A wonderful, crazy, colorful, crowded, happy, glorious, carefree time the natives in Louisiana call "Mardi Gras" await you. Put on a mask, grab a funny hat and come mingle with the crowd as the procession led by a traditional N'awlins jazz group winds its way down Canal Street and maneuvers you through the French Quarter. Amid the continual chorus of "throw me something," you'll become an expert at gathering up the traditional Mardi Gras strands of yellow, purple and green beads and tossing them to the eager souls perched everywhere you turn. As you work your way through the happy throngs of partying folks, you'll eventually find the Musée Conti Historical Wax Museum, where you can wonder through history, legends and scandals that have combined to make "the Big Easy" a city that care forgot. Enjoy a sample of the spicy Creole and Cajun flavors such as crawfish pie, shrimp jambalaya, and "melt-in your-mouth" beignet doughnuts topped with powdered sugar. Don't pass up the taste of a "praline," a confectionary delight of butter, sugar and pecans. And while you have the chance, open up your ears to the music of New Orleans, from the hip sounds of jazz and blues to the bouncy Cajun beat of "zydeco."

All of this will get you in the spirit to return **ON YOUR OWN** back to the vibrant streets of the French Quarter for a continued night of fun, food and entertainment. You'll find yourself in a pleasant state of mind, one that is basic to human nature and indeed most satisfying. Come to New Orleans and experience Mardi Gras, the celebration where you can let go and "laissez les bon temps rouler" or "let the good times roll."

◆ PROGRAM WITH ABSTRACT

Non-members, if you would like to receive a copy of the AEG 2008 *Program with Abstracts*, please contact Julie Keaton at 951-789-0271. Everyone is invited to submit an abstract to one of the Technical Program titles. Contact Julie Keaton at akeaton@aegweb.org.

NOTE: Program and schedule are subject to change. You may also view all the Program with Abstracts information on AEG's web site: www.aegweb.org/

◆ MEETING HOTEL

Located along historic Canal Street, the JW Marriott New Orleans (formerly the old historical Le Meridien Hotel) offers guests a premier and distinctive New Orleans experience. Discover antique treasures, old world charm and the allure of the French Quarter just across the street. With world-class attractions and unique entertainment, the business district, casinos, riverfront and convention center are also a short walk away. You'll find a delightful blend of grace and sophistication with attentive service and amenities, including high-speed Internet access, and the personal touch that defines the JW Marriott experience.

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EDUCATION SECTION

SUMMER 2008 REVIEW COURSES for the ASBOG GEOLOGY LICENSING EXAM

Registrations for the Summer 2008 series of review courses for the ASBOG geology licensing exam taught by REG Review, Inc. are rapidly coming to a close. AEG and REG Review, Inc. have partnered to provide these courses since 1992. This summer, review courses will be offered in locations all over the US and Canada. Course dates and locations in the Eastern US are as follows:

Eastern US Courses - Summer, 2008

- 2008SEUS-2 - Atlanta , GA , August 1, 2008, 8am to 4pm
- 2008CEUS-2 - Raleigh , NC , August 2, 2008, 8am to 4pm
- 2008NEUS-2 - Philadelphia , PA , August 3, 2008, 8am to 4pm
-

ASBOG Courses are \$445 for AEG members, \$460 for nonmembers. Preregistration deadlines for the Summer 2008 courses are a postmark date of July 1, 2008 for all East Coast courses.

REG Review, Inc. has been teaching these courses in California since 1985. In March 2000, we began to direct our teaching towards the ASBOG geology licensing exam.

The pass rate for students in classes since then has ranged from 85 to 98%. The courses are taught by Patti Sutch, California PG 3949, CEG1641, and CHG 25, and Lisa Dirth, California PG 3951, CEG 1240, and North Carolina RG by ASBOG exam.

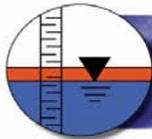
Current information on study manuals, flash cards, and courses, including specific locations, may be found online on REG REVIEW, Inc's website at <http://regreview.com>

To contact REG REVIEW Inc.: e-mail - regreview@aol.com, mailing address - 37 Rosewell Road , Bedford , NH 03110 , telephone - East Coast call Lisa Dirth at 603-472-3050, (fax) 603-471-1969. West Coast (evenings) Patti Sutch at 916-456-4870.

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EDUCATION SECTION

EXPLORE EARTH SCIENCE WEEK EVENTS NEAR YOU

From AGI Email

Get out of the house and away from the classroom! That's what the "No Child Left Inside" theme of Earth Science Week 2008 (Oct. 12-18) encourages you to do. To help, AGI is launching a website to connect participants with learning opportunities off the beaten track.

Want to sign up for a geological tour in your area? Or identify a geoscience exhibit being offered nearby? The new "My Events Map" (<http://www.earthsciweek.org/eventsnearlyou/index.html>) provides clickable links to Earth Science Week events taking place at parks, museums, science and technology centers, university geology departments, local geological societies, and other locations close to you. Expect to see more events on the map in the coming months.

If your organization is planning a special program or event for the public during Earth Science Week, please contact AGI at info@earthsciweek.org. We'll be happy to post the information on the new Earth Science Week 2008 My Events Map!

GILLELAND AWARDED MARTIN L. STOUT SCHOLARSHIP

By Jane Gill-Shaler and Rich Lovett

Chesney Gilleland, a geology student at Appalachian State in Boone, was awarded the 2009 Martin L. Stout scholarship, which is funded by the AEG Foundation. Chesney expressed her gratitude to AEG Carolinas and Rich Lovett for sponsoring her membership, saying that it had obviously been extremely beneficial for her.

Dr. Martin L. Stout was Professor of Geology at California State University, Los Angeles from 1960 to 1990. He is remembered by all of his students for his passionate and insightful instruction in engineering geology, and for his emphasis on hands-on experience and critical thought. Dr. Stout was well known for his expertise on mega landslides, his worldly travels, his good humor, and his gracious manner. This scholarship supports his legacy. For more about the Martin L. Stout Scholarship, or to send in your donations towards this scholarship or others that AEG sponsors, please go to the AEG website, www.aegweb.org.



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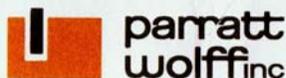


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AEG MID-YEAR BOARD MEETING NOTES

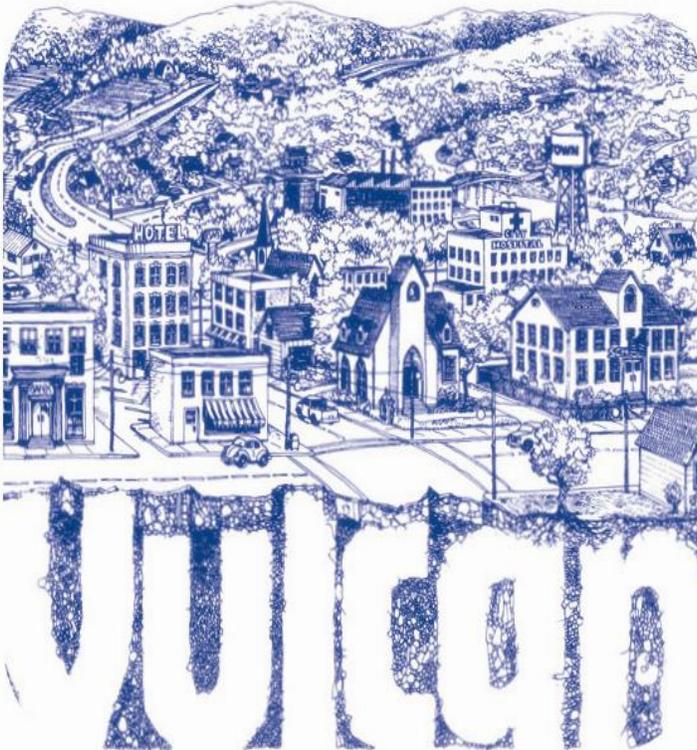
The Association of Environmental & Engineering Geologists (AEG) officers convene meetings biannually to review the status and conduct the business of our organization. On May 17-18, 2008, the Board of Directors (BOD) mid-year Board meeting was in session in Portland, Oregon, the hometown of President Dorian Kuper who presided. Detailed meeting minutes were prepared and will be available for approval at the next Board meeting, which will follow the Annual Meeting in New Orleans. The following summary was prepared to assist our Directors in highlighting major issues and topic areas for communication to the general membership.

AEG has twenty-five (25) sections. Eighteen (18) Section Chairpersons or their proxies were present along with the Executive Council (EC) President Kuper, Vice President/President-Elect Molinari, Treasurer Kreuger, Secretary Hilton, and Past-President West. Chief Operating Officer Roland was also present, as were Governance Committee Co-

Chair Bauer, Finance Committee Chair Sofield and other invited guests. Sections absent were Alaska, Montreal-Canada, New England, New York-Philadelphia, Ohio River Valley, South Africa, and Southeastern.

- *Treasurer Kreuger provided a summary of current financial status that was generally favorable. Year to date financials indicate a \$95,000 surplus largely due to the 2007 Los Angeles Meeting. The FY 2008-9 budget, which includes a small projected surplus plus \$67,000 in discretionary expenses, was presented to and approved by the BOD.. These discretionary expenses are prioritized expenditures that are authorized for the EC to utilize if and only if sufficient surplus funds are available and the 2008-9 fiscal year finances are in order.*
- *AEG is interviewing and seeking to replace the current CPA firm responsible for reviewing and filing our annual tax return.*
- *The current Fiscal Year term is through June 30 and the BOD is considering changing to a*

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calendar year that would allow the annual CPA report to be prepared ahead of the Annual Meeting for approval by the BOD. This would also make it easier to make from Annual Meeting revenue available well in advance of year-end reports and subsequent budget planning. No action was taken, but the BOD requested that more information on this change be prepared for the Annual Meeting, on which they will then vote.

- AEG is also reviewing changing the Incorporation status from California to Colorado that would simplify our tax filing, and reduce CPA time and out of state filing costs. No formal action was taken but the BOD directed the EC to obtain more specific information and make a recommendation on which the BOD will then vote at the next Annual Meeting.
- Future Annual Meetings are progressing well with 2008 in New Orleans, 2009 in South Lake Tahoe, 2010 in Charleston, 2011 in Anchorage, 2012 in Salt Lake City, and 2013 potentially in Seattle (to be proposed for BOD approval at next meeting).
- Julie Keaton, who has served as AEG's Annual Meeting Manager for fifteen (15) years is retiring but will continue to provide support planning the Specialty Conferences. Accordingly, AEG is anxious to find an adequate replacement realizing it will be difficult given Julie's wonderful performance in past years.
- The BOD has been reviewing information regarding possible participation with GSA in hosting a geohazards conference in 2010 in Costa Rica spear-headed by Keith Turner. The BOD has asked that the meeting be considered for 2011 allowing more preparation time.
- The Joint Task Force on Areas of Practice (JTFAP) remains a controversial topic that continues to be supported by the Board and EC. Presently, a draft document has been prepared by the joint committee of AEG, ASCE, and AIPG representatives but is mired in internal review. The BOD has asked that this be accelerated so that a document can be distributed sooner for BOD and member review.
- All present Section Chairs presented section Reports. Each exchanged valuable ideas for generating operating capital, membership, and

retention of members. An open forum workshop was suggested for next meeting to allow even more discussion and capture of Section meeting ideas.

- The BOD approved an increase in selected dues by majority vote. The dues increases are \$5/year for Affiliate Members, \$40/year for Co-Members, \$10/year for Emeritus Members and better reflect AEGs costs for the services provided to those member classes. In addition, New Members dues are now \$75/year for one year instead of three years.
- The policies were tediously revised by Treasurer Kreuger and Vice President Molinari with support from the Governance Committee. Several new policies are now in place as recommended by legal counsel. These include a Field Trip policy that should be reviewed by all Sections for future activities. The approved revised policies will be posted on the website.
- The new EC member nomination was reviewed and voted on by blind ballot and will be included in the ballot to general membership. The elected candidate will be announced in New Orleans at the 2008 Annual Meeting.
- A proposal for the 2009 Shlemon Conference to be in the Midwest on the topic of seismic activity of the New Madrid Fault system was reviewed and accepted by the BOD.
- COO Roland reviewed the Document Retention policy requirements and will post her presentation on the website for Sections to refer to when necessary.

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Call for Papers

One page electronic abstracts (200 - 400 words, single-spaced, 11-point font, without figures or photos, in MS DOC format are due by **April 29, 2008**. The abstract should include title of paper, author's names, affiliations of all authors, and contact information. See conference website for more details. Email your electronic abstracts to: geophysics@dot.state.nc.us.

Notification of abstract acceptance will be provided to authors on or before **May 8, 2008**. The primary criterion for abstract acceptance will be relevance to the conference focus on application of geophysics and NDE technologies to the highway and transportation community.

Conference Themes

- Abandoned Underground Mines
- Archaeology / Cultural Resource
- Bridge Deck / Superstructure
- Bridge Foundations / Substructure
- Bridge Scour / Unknown Foundations
- Delineation of Fractures / Faults
- Determination of Engineering Properties of Soils and Rocks
- Determination of Lithology
- Environmental Problems
- Imaging Depth to Bedrock
- Groundwater
- Mapping / Locating Utilities
- Pavements
- Roadbed Subgrade Problems
- Subsurface Voids
- Others: New Research, Technology, and Equipment

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David J. Horhota, Ph.D., P.E.
Florida Department of Transportation
Rick Miller, Ph.D.
Kansas Geological Survey

Niklas Putnam, P.G.
Corps of Engineers
Benjamin S. Rivers, P.E.
Federal Highway Administration
Phil Sirls
Zonge Geosciences, Inc.

Information Contacts

Paper: Mohammed Mulla
Exhibitor: Chris Chen
Registration: Scott Webb
NCDOT Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, NC 27610
Phone: 919-250-4088, Fax: 919-250-4237
Email: geophysics@dot.state.nc.us

ANNOUNCEMENT

*Dear professionals:
You and your colleagues
are invited to attend*

2008 Highway Geophysics-NDE Conference

December 1 – 4, 2008
Charlotte, NC
Marriott Executive Park

Earn up to 16.5 PDHs

Sponsored by:
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Co-Sponsored by:
Federal Highway Administration

Partnerships with:
TRB, Geo-Institute and EEGS

Conference Website:
<http://www.ncdot.org/~geophysics/conference/>





Conference Vision

This conference seeks to enhance the quality, efficiency and safety of transportation systems by expanding knowledge and understanding of the state-of-practice and state-of-the-art use of geophysical and non-destructive evaluation (NDE) technologies. In exchanging the most recent information about geophysical and NDE methodologies, participants will gain a better understanding of their applications and limitations, maximizing their benefits, enhancing engineering practice, reducing costs and improving safety.

Conference Objectives

To exchange information on applied geophysical and NDE methodologies applicable to transportation facilities and infrastructure. To promote the routine and appropriate use of geophysical and NDE methodologies to highway agencies.

To improve the practice of geophysical and NDE methodologies through the interaction of geophysicists and practitioners, and their respective knowledge.

Who Should Attend

The conference is intended to provide a stimulating forum for engineers, geophysicists, geologists, program managers, and other decision makers regarding application of geophysical and NDE methodologies to transportation facilities and infrastructure.

Preliminary Schedule

Monday, December 1, 2008

2:00	8:00	Exhibit Setup
2:00	5:30	Registration
5:00	7:00	Ice Breaker Reception

Tuesday, December 2, 2008

7:00	4:00	Registration
7:00	8:00	Continental Breakfast
8:15	10:00	Opening Remark and Meeting
10:00	10:30	Coffee Break
10:30	12:15	Meeting
12:15	1:15	Lunch (provided)
1:30	3:15	Meeting
3:15	3:45	Coffee Break
3:45	5:00	Meeting

Wednesday, December 3, 2008

7:00	12:00	Registration
7:00	8:00	Continental Breakfast
8:15	10:00	Meeting
10:00	10:30	Coffee Break
10:30	12:15	Meeting
12:15	1:15	Lunch (on your own)
1:30	3:15	Meeting
3:15	3:45	Coffee Break
3:45	5:00	Meeting
5:30	6:30	Social Hour
6:30	8:00	Banquet

Thursday, December 4, 2008

7:00	8:00	Continental Breakfast
8:15	10:00	Meeting
10:00	10:30	Coffee Break
10:30	12:15	Meeting
12:15		Conference Adjourns

Registration

Registration Fees

	Before 9/30/08	After 9/30/08
Individual	\$175.00	\$250.00
Spouse/Guest	\$70.00	\$70.00
Student	\$70.00	\$100.00
Exhibitor	\$750.00	\$950.00
Exhibitor*	\$900.00	\$1,100.00

* For exhibit display > 8 ft wide. Please visit conference website for more details.

Conference Location

Conference will be held in Marriott Executive Park (see below). Limited rooms with a special rate of \$63.75 plus room service and tax have been reserved for this conference.

Marriott Executive Park
5700 Westpark Drive
Charlotte, North Carolina 28217
Toll Free: (800) 228-9280
Phone: (704) 527-9850
Fax: (704) 527-7458

Key Dates

Abstract Due	April 29, 2008
Notice of Acceptance	May 8, 2008
Draft Paper Due	July 15, 2008
Review Comments to Authors	August 15, 2008
Final Paper Due	September 15, 2008
Tentative Program Dates:	
Preliminary Program	May 16, 2008
Final Program	September 30, 2008



ANNOUNCEMENTS

A&D and NuWay Announce Merger

We are pleased to announce the merger of NuWay Industrial Services, Inc. with A&D Environmental Services, Inc. This combination of our two proven companies creates the largest provider of turn-key environmental services in the Carolinas; providing a full range of services, including industrial cleaning, soil and water remediation, emergency response, and environmental transportation. Service centers based in the metropolitan areas of Greensboro, NC, Charlotte, NC, Columbia, SC and Greenville, SC allow us to efficiently cover more of the Southeast.

The recently completed transaction demonstrates our commitment to be the premier provider of environmental services and positions us to continue to grow upon our long-standing tradition of excellence. As part of the transaction, NuWay will experience a name change to NuWay Environmental Services, LLC to highlight the focus of providing a full range of environmental services. A&D's name will remain unchanged.

Our customers will benefit in the expanded service area which encompasses the states of North Carolina and South Carolina, southern Virginia, eastern Tennessee and Georgia. This is an exciting opportunity for our employees and we all look forward to servicing our client's environmental needs within this geographical region.

As we move forward, it is our desire to make this merger as seamless as possible. Our customers will continue working with the same company representatives in order to maintain the high level of service that they have come to expect.

Eric D. McManus, President

A&D Environmental Services, Inc.

Jonathan (Jono) K. Rabley, President

NuWay Environmental Services, LLC.



Scott Pearce
Vice President

P.O. Box 484
High Point, NC 27261
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336.434.7752 fax
336.803.1783 mobile
www.adenviro.com
spearse@adenviro.com

Trigon Engineering Consultants, Inc. Merges with Kleinfelder, Inc.

On March 29, 2008, Trigon Engineering Consultants, Inc. merged with Kleinfelder, Inc. Kleinfelder is an employee-owned engineering firm with nearly 50 years of experience. Kleinfelder has over 2,200 employees across the United States in over 60 offices. Until March 2008, Kleinfelder had a presence in almost all areas of the country except the southeast. Kleinfelder looked to Trigon to "fill-in the fourth corner of the country". Trigon's business model of providing quality based geotechnical engineering, construction testing, and environmental services aligned very closely with Kleinfelder's services and culture.

So what kind of changes will you see locally? Not much. For the time being, we will be known as Trigon | Kleinfelder. You will see the same faces and names as before. Our telephone numbers are the same and we have the same office locations. We will continue to provide our local clients with the same services, only now we will have the backing and expertise of an additional 2,200 employees.

(Continued on page 22)



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(Continued from page 21)

GeoTech Environmental Equipment Inc., Announces Expansion

Lisa Austin, manager of the North Carolina Service Center of Geotech Environmental Equipment, Inc., recently announced that Geotech has expanded their inventory of rental equipment to include GeoXH GPS systems, XRF analyzers, and the NEW SS Geosub sampling pump, the most versatile single stage DC pump in the industry.

Geotech, which is headquartered in Denver, CO, is a leading manufacturer and international distributor of sampling, analytical, filtration and remediation equipment, and owners of Geotech, Keck, ORS and Marschalk branding. The North Carolina Service Center, located at 10404 Chapel Hill Rd, Suite 111 in Morrisville has doubled its size and space in the last 12 months to better serve the area's groundwater, wastewater and environmental testing needs. Austin, who reports that she is especially grateful for the large number of repeat customers who have made this possible, may be contacted at lisa@geotechenv.com or by phone at 800-293-5325. For more information about Geotech and a list of their products and services, visit them online at <http://www.geotechenv.com/>.

**NEW MEMBERS IN THE
CAROLINAS SECTION**

By Jane Gill-Shaler, Editor, GeoNews

The Carolinas Section offers a warm welcome to 40 new members, both students and professionals, who have joined our ranks since October of last year. We sincerely appreciate all of our long time members, some of whom have been around since the 1970s! We also heartily welcome our new members; please let them know how much we appreciate their joining us at our next dinner meeting. If your name is on this list, and you are not a new member, we apologize—this is the most current list from AEG. You are still very welcome!

*Erin Must, Chapel Hill NC
Rebecca Latham, Monroe NC
Clyde Livingston Jr., P.G., Columbia SC
Jeremy DeVore, Greensboro NC
Joshua White, Cary NC
David Lowery, Charlotte NC
Susan Kelly, Black Mountain NC
Michael Armour, Charlotte NC
Walt Plekan, Morrisville NC*



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Martin Meriwether, Greensboro NC
 Jeremy Strohmeier, Greensboro NC
 Colleen Clark, Midland NC
 Brad Hubbard, Columbia SC
 Carin Kromm, Greensboro NC
 Eva Moore, Charleston SC
 Angela Moore, Greensboro NC
 Robert Davies, Raleigh NC
 Mark Whittle, Lexington SC
 Matthew Cooke, Columbia SC
 David Lubell, Raleigh NC
 Michael Shaw, Huntersville NC
 Christina Bruinsma, Raleigh NC
 Frederick Rutledge, Greensboro NC
 Clark Wipfield, Raleigh NC
 Christian Borrel, Durham NC
 Collin Day, Winston-Salem NC
 Peter Pozzo, Greensboro NC
 David Duncklee, Raleigh NC
 Sam Hillier, Clarendon Hills IL
 William Moore III, Cary NC
 Cassidy Hey, Winston-Salem NC (Student)
 Jennifer Wheat, Charlotte NC
 Kristen Lloyd, Greensboro NC (Student)
 Randi Lisk, Charlotte NC (Student)
 Daniel Sparks, Charlotte NC (Student)

Timothy Nielson, Chapel Hill NC (Student)
 Chesney Gilleland, Boone NC (Student)
 J.C. Weaver, Charlotte NC (Student)
 Laura Baker, Charlotte NC (Student)
 Madelyne Adams, Charleston SC (Student)

For our long-time members, be sure that your membership is current; your membership dues go toward our professional organization, and toward the many professional and educational activities AEG sponsors. To see if your dues are current, log onto AEGweb.org and use your login and password to access your membership data.

For our new members, again, WELCOME, and to gain the most value from your membership, **get involved.** For information on how you may help, especially with planning the 2010 AEG Meeting in Charleston, contact Section Chair Rick Kolb, at RA-Kolb@MACTEC.com, or 2010 Meeting Chair Dr. Briget Doyle at doyleb@cofc.edu. More information is on page 24.

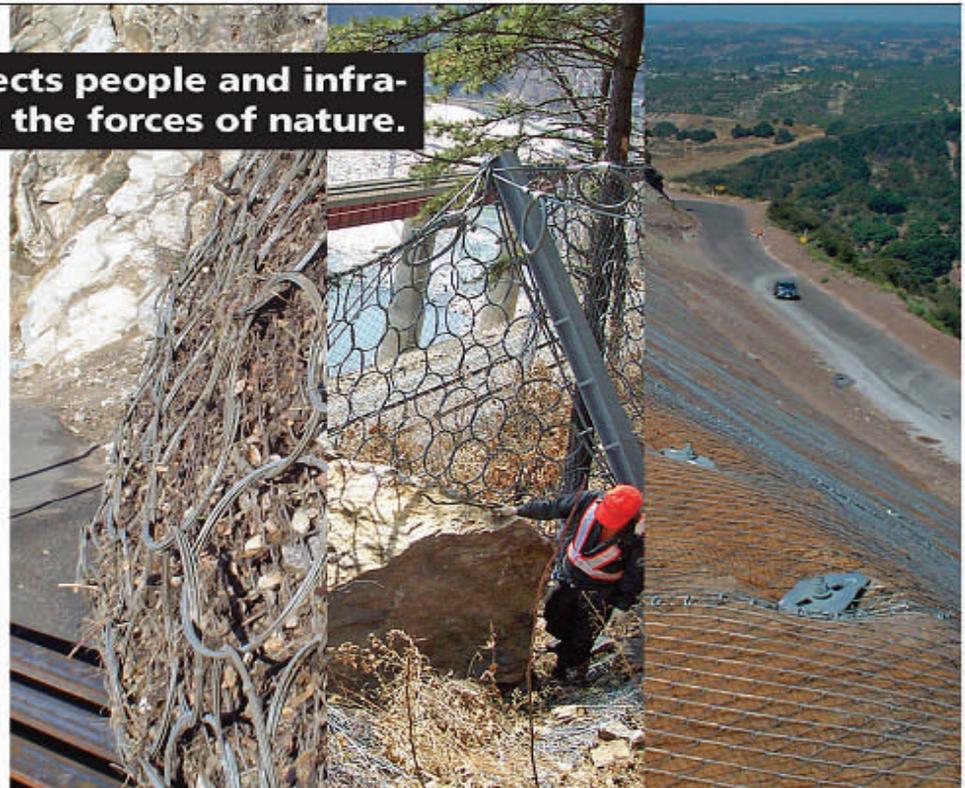
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www.geobrugg.com



ANOTHER CALL FOR LEADERS AT THE 2010 AEG MEETING IN CHARLESTON

AEG Carolinas is pleased to see that two more committee leaders have stepped up to the plate to help with planning and running the AEG 2010 Annual Meeting in Charleston, SC, September 20-26, 2010. Rick Kolb has offered to be the Finance Manager/Committee Chair, and Gary Rogers has volunteered to be the Publicity Manager/Committee Regional Chair. Thank you both!

We need only six more good people to help plan and manage several other committees—check out the list to the right. You do not have to live in Charleston to help! This is a great opportunity to get more involved with AEG and be a part of the Annual AEG Meeting, the biggest event AEG will hold in 2010.

If you want more information, or are interested in volunteering your expertise, please contact Briget Doyle, the AEG 2010 Meeting Chair, at doyleb@cofc.edu. Contact information is below; line blanks indicate that here is where your help is needed most. Please step up—we need all the help we can get! Even if you don't feel comfortable in a leadership role, your helping hands at this early date will still be appreciated, and you can sign on as a Committee Member.

Briget Doyle, AEG 2010 Meeting Chair

Assistant Professor
Department of Geology and Environmental
Geosciences
College of Charleston
66 George St.
Charleston, SC 29424
843-953-0877
doyleb@cofc.edu

Norm Levine, AEG 2010 Vice-Chair

College of Charleston
levinen@cofc.edu

Julie Keaton, AEG Meetings Director

aeg@aegweb.org

2010 Annual Meeting Committees:

Field Trip Committee Co-Chairs:

Tami Idol and Jennifer Bauer

Finance Manager/Committee Chair:

Rick Kolb

Sponsor Solicitation Committee Chair:

Jane Gill-Shaler

Outstanding Environmental & Engineering
Geologic Project Committee Chair:

Raymond Knox

Publicity Manager/Committee Regional Chair:

Gary Rogers

Short Course Committee/Short Course:

VOLUNTEERS NEEDED

Special Publication(s) Committee:

VOLUNTEERS NEEDED

Special Activities Committee:

Spouse/Guest Activities and Hospitality
Room Manager/Committee

VOLUNTEERS NEEDED (preferably
someone familiar with Charleston area)

Student Volunteer Coordination Chair:

Norm Levine

Technical Sessions Committee:

VOLUNTEERS NEEDED

Poster Sessions (Technical Sessions sub-committee
or can be separate committee):

VOLUNTEERS NEEDED

Symposia (Technical Sessions sub-committee or can
be separate committee):

VOLUNTEERS NEEDED



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Phone: 910.350.1903
Fax: 910.350.1557

TSUNAMI TALK ON APRIL 14 BY JAHNS LECTURER, DR. JOHN CLAGUE

By Jane Gill-Shaler, Editor, GeoNews

The 2008 Jahns Distinguished Lecturer, Dr. John J. Clague, gave a pithy presentation on "Tsunamis- Stealth Killers" at our Spring Meeting on Monday, April 14, 2008 at the Friday Center at the University of NC Chapel Hill. Students were invited to join us at the meeting, free of charge, and were given a free one-year student membership for their attendance. For a list of new members, see the article on page 22.

Dr. Clague is currently Professor and Canada Research Chair in Natural Hazard Research at SFU and is the director of SFU's Centre for Natural Hazard Research. He has authored or co-authored over 250 journal papers; his other major interest is earth science education. Dr. Clague has given countless public lectures, has written two general interest books on geology, and is co-author of a textbook on natural hazards.

Tsunamis, or relatively large body waves, can be generated by abrupt vertical displacement of the seafloor or lake floor by earthquakes or volcanic eruptions, and can also be produced by landslides or, much more rarely, by asteroid impacts. The slides presented a graphic picture of the horrific damage tsunamis can cause. Examples were shown from prehistory up to the present time, including the December 2004 tsunami, which was triggered by the second largest earthquake in history. The quake produced wave run-ups to 30 m above sea level along the coasts bordering the Indian Ocean, killing almost 200,000 people.

Perhaps the most spectacular landslide-triggered tsunami of the twentieth century occurred on July 10, 1958, at Lituya Bay, Alaska. A strong earthquake triggered a rockslide on a steep slope high above the head of the bay. The rockslide plunged into the bay and displaced a huge mass of seawater that raced up the opposite valley wall to an elevation of 525 m, completely destroying the forest in its path. In four minutes, a 30-m-high wave surged 11 km to the mouth of the bay, where it swept away two fishing boats. Remarkably, the crew of one of the boats survived and described their boat being swept over the tops of trees, towards the open Pacific Ocean.

GENERALS LEE AND JACKSON GET A FACELIFT AT STONE MOUNTAIN, GA

By Camie Young, Senior Writer, Gwinnett Daily Post (Reprinted by permission)

STONE MOUNTAIN - 3/27/2008. Gen. Lee's lapel got a little tug Wednesday, March 26 when crews rappelled down Stone Mountain to give the famous memorial carving a face-lift.

As part of the work, crews from **AE Drilling Services** placed upgraded stainless steel pins in Confederate Gen. Robert E. Lee's lapel, which is 8 feet tall, 4 feet wide and 2 feet thick. The pins also were upgraded in Gen. Stonewall Jackson's beard, which is about a 2-foot cube.

Lee's lapel and Jackson's beard were fashioned out of rock from Stone Mountain's quarry and then placed onto the memorial.

The original pins were put in place more than 40 years ago, but the new ones are expected to last more than 100 years, said Kelley Swann, Stone Mountain Park spokeswoman. "It comes at a really good time, celebrating our 50th anniversary," Swann said of events to mark the purchase of the mountain and surrounding land by the state in 1958. "It shows how important the preservation of the carving is to the park and the state of Georgia."

Swann said park-goers watched all day, as the three-man crew rappelled from the top of the mountain to the carving 800 feet below.

Reprinted with permission from Gwinnett Daily Post.



Mark Lassiter of AE Drilling Services fixes a rappelling line while kneeling on the ear of Gen. Stonewall Jackson's horse at the carving on Stone Mountain. Lassiter, along with two rock scalers from Janod Contractors, worked on rebolting the General's beard and the lapel of Gen. Robert E. Lee.
Staff Photo: Su Anderson, Gwinnett Daily Post



AEG CAROLINAS SECTION – SPONSOR INFORMATION

The Carolinas Section 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 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 customers in an informal setting.

Our sponsors provide financial support that allows us to have reasonably priced dinner meetings, host seminars, provide discounted dinner meeting costs for students, underwrites the cost of newsletters and our web site, and supports science education in our schools. All costs listed below are per year and begin on the date that your payment is received.

Silver Sponsor (\$250):

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

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

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

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

Web Page: Acknowledgement on the AEG Carolinas Section Web Page, www.aegcarolinas.org.

Gold Sponsor (\$375):

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

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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 Section email announcement

Web Page: Acknowledgement on the AEG Carolinas Section Web Page, www.aegcarolinas.org.

Platinum Sponsor (\$500):

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

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

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

Email Announcements: Listing of your company name on each AEG - Carolinas Section email announcement

Web Page: Acknowledgement on the AEG Carolinas Section Web Page, www.aegcarolinas.org.

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 Raymond Knox, AEG Carolinas Treasurer. Please call or email if you have any questions (contact information below).

AEG Carolinas Section Sponsorship Form

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

- _____ Platinum Section Sponsorship, \$500/year
- _____ Gold Section Sponsorship, \$375/year
- _____ Silver Section Sponsorship, \$250/year
- _____ GeoNews Newsletter Sponsor Only (see above)

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Please enclose a business card or camera-ready ad. If digital files of the ads are available, please provide them in jpg, pdf, or doc. Email ads to Newsletter Editor, janehgill@aol.com.

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Snail mail form and payment to:

*Jane Gill-Shaler, AEG Carolinas Newsletter Editor
G.E.O.*

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High Point, NC 27262

JaneHGill@aol.com

MEMBER BENEFITS

Networking, with colleagues at meetings, through technical publications and on the AEG web page, is a valuable professional development benefit because it allows a member to:

- Broaden and update technical, practical and business knowledge.
- Keep career paths open by assuring that the value, utility and scope of engineering geology is recognized in the scientific, technical, legal, and regulatory arenas.
- Explore numerous opportunities for career enhancement through contacts at technical meetings and in continuing education programs.
- Influence the profession of environmental and engineering geology as it serves society and as it is regulated.
- Establish the standards of the profession.

\$\$\$\$\$\$\$\$\$\$\$\$

AEG members receive our quarterly professional journal, *Environmental and Engineering Geoscience* and six-issues of the *AEG NEWS* as a regular dues benefit.

Members also enjoy a 20% "member discount" on all special publications, registration fees at meetings, short courses and field trips.

PROFESSIONAL DEVELOPMENT

AEG -- Serving Professionals in Environmental, Ground-Water and Engineering Geology since 1957

- AEG sponsors workshops and short courses for which official Continuing Education Units are offered.
- AEG encourages its members to participate in activities of mutual interest with other societies and organizations.
- The annual Richard H. Jahns Distinguished Lecturer in Engineering Geology is co-sponsored by AEG and the GSA Engineering Geology Division.
- AEG members make presentations and lead field trips for students at all levels.
- AEG's Technical and Professional Practice Committees keep the Association in a position of influence through their wide-ranging activities.
- AEG's 25 Sections and 20 Student Chapters provide educational and networking opportunities for members through regular meetings, field trips and local newsletters.
- Students compete for scholarships and awards, and interact with practicing professionals.
- Short courses, field trips, and technical sessions provide opportunities for AEG members to enhance their professional practice.
- International members are found in more than 20 countries and Designated Correspondents enhance technology transfer among more than a dozen countries.

MEMBERSHIP APPLICATION

ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS



The Association of Environmental & Engineering Geologists (AEG) is an international, non-profit scientific and technical society, whose 3,000 members include geologists specializing in engineering geology, environmental geology, and ground-water geology as well as other professionals in affiliated fields such as civil and mining engineering, land-use planning, public policy and education.

Through its technical and professional activities, AEG strives to promote the value and importance of geologic practice in:

- detecting, containing, and remediating contaminated soil and ground water;
- recognizing and mitigating hazardous geologic processes to promote public safety and welfare; and
- siting, planning, designing, constructing, and maintaining engineered works.

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MEMBERSHIP REQUIREMENTS

MEMBER: Applicants for Member Class shall hold a degree in geology, engineering geology or geological engineering, or a degree in a related professional field with 30 semester-hours of credit in the geosciences. In addition an applicant shall be practicing in the field of Engineering Geology, Environmental Geology or Hydrogeology. Annual Dues for new (first-time) Members = \$75.00 per year for the first three years of membership. Otherwise Annual Dues = \$115.00. Applicants who qualify for Member Class, but are engaged in full-time teaching at the Primary or Secondary (K-12) level are eligible for Teacher Status (Annual Dues = \$35.00).

AFFILIATE: Applicants for Affiliate Member Class shall be scientists or engineers who work with engineering geologists, teachers engaged in middle-school and high school Earth Science education, or persons interested in engineering geology. Annual Dues = \$70.00 (Teacher Dues = \$35.00)

STUDENT: Applicants for Student Member Class shall be full-time students enrolled in an academic program in the geosciences or in a related field in engineering. Annual Dues = \$25.00

INTERNATIONAL: Applicants shall hold the same requirements as for Member Class, but may select from the following dues schedule: \$35, which includes the *Environmental and Engineering Geology Journal*, \$45 with the *Journal*, the *Annual Directory* and the *Annual Meeting Abstracts*; or \$55 with the *Journal*, *Annual Directory*, *Annual Meeting Abstracts* and the *AEG News*.

AEG memberships are based on calendar year. Applications received after October 1 will be entered for following calendar year.

APPLICATION FORM

Please complete this form and mail it with your Annual Dues payment to the Association's Headquarters office for processing. New member applicants do not pay Section dues for their initial year of membership.

Name: _____ (Please print your name as you would like it shown on your membership certificate.)

PREFERRED ADDRESS: _____

WORK PHONE: _____ FAX: _____

PREFERRED E-MAIL: _____

Second Address: _____

Home Phone: _____

DESIRED CLASS OF MEMBERSHIP: _____ ANNUAL DUES AMOUNT: _____

CERTIFICATION: _____
(Signature)
My signature attests that, to the best of my knowledge, I meet the academic and practice requirements for the membership class I have requested and that all entries on this application are true and correct. I also authorize AEG to charge my credit card for the dues payment, if I selected the credit card payment option.

Enclosed is my check for the amount of Annual Dues of \$ _____

Discover Master Card Visa Amount of Dues to be charged to my card = \$ _____

Card Number: _____ Expiration Date: _____

SUBMISSION: Send this form with your check or credit card authorization to:
Association of Environmental & Engineering Geologists, PO Box 460518, Denver, CO 80246
Phone: 303-757-2926; FAX: 303-757-2969; AEG Web: www.aegweb.org

CALENDAR OF EVENTS - 2008

Geological Events in the Carolinas

Courtesy of AEG Carolinas Section – www.aegcarolinas.org
Send updates/corrections to Carin Kromm at clkromm@mactec.com

Last updated June xx, 2008

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

The calendar was not completed by press time.
Please go to our website at www.aegcarolinas.org
to view it when it is posted.

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Choice Environmental Services, 919-369-1001 Nicole Manning, President. www.choice-enviro.com. Rentals and Supply Sales of water quality, water sampling, air monitoring, and soil sampling equipment and supplies.

Enviro-Equipment, Inc., 888-274-8929 Denise Chew, President Denisechew@enviro-equipment.com, www.enviro-equipment.com Enviro-Equipment is a leading supplier of environmental monitoring equipment and disposable sampling products.

Geobrugg North America. Phone 252-937-2552 – Fax 252-451-1254 www.geobrugg.com Geobrugg protects people and structures from the forces of nature.

Geotech Environmental Equipment, Inc.-1-800-833-7958. Lisa Austin, Lisa@geotechenv.com, <http://www.geotechenv.com/>. Geotech manufactures and distributes sampling, filtration, analytical and remediation products for the ground and surface water industry. We also rent, sell, and service environmental sampling and monitoring equipment.

Trigon Engineering, Inc. 336 668 0093 www.trigoneng.com Geotechnical and Environmental Services.

Vulcan Materials Company, Mideast Division 336 767 4600 www.vulcanmaterials.com Vulcan is the nation's leading producer of crushed stone.

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American Environmental Drilling, Inc. 800 779 8854 ContactUs@aedi.biz. NC, SC, and VA Licensed and Certified Drillers. Environmental and geotechnical. Certified NC DOT "DBE" Woman Owned Business and HUB Corporation.

Pace Laboratories 336-623-5878 Kelly Dillon kelly.Dillon@pacelabs.com. Pace Analytical Services, Inc. is a full-service sampling and analytical testing firm—operating a convenient network of laboratories and service centers nationwide. We have laboratories in Asheville and Charlotte, NC and a Service Center in Eden, NC.

SILVER

A & D Environmental Services. 336 434-7750 Scott Pearce, Vice President, spearce@adenviro.com, <http://adenviro.com/index.html>. A&D Environmental Services, Inc. provides turn-key solutions to our client's environmental and industrial concerns.

AE Drilling Services, Inc. 864 288 1986 www.aedrilling.com AE Drilling Services LLC performs geotechnical, environmental, mineral exploration, and water supply drilling services throughout the southeastern U.S. Services include ATV auger, coring, air & mud rotary drilling, probing & reagent injection, inclined drilling, deep & large diameter mud & air rotary drilling, & well rehabilitation.

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Environmental Products and Services of Vermont, Inc. 919-852-3595. Peter Marotta, pmarotta@epsosvermont.com, www.epsosvermont.com. EP&S is a comprehensive environmental and industrial contractor providing a wide range of services from Emergency Spill Response, Vacuum Truck Services, Soft Utility Excavations, Tank Removal and Cleaning, Industrial Cleaning and Maintenance Services, Site Remediation, Hazardous and Non-Hazardous Waste Disposal and more.

Garco, Inc., 336 683-0911. Al King, alk@egarco.com, <http://www.egarco.com/> GARCO, Inc. provides environmental, industrial, waste transportation, disposal and recycling services to industrial and consulting clientele throughout the Southeast.

Golder Associates 336 852 4903 rachel_kirkman@golder.com, <http://www.golder.com> Golder provides ground engineering and environmental services worldwide to various industries, natural resource providers and government.

Joyce Engineering, Inc. 804-355-4520 Wayland Harris wharris@joyceengineering.com. Joyce Engineering is a full-service solid waste management consulting firm dedicated solely to the solid waste industry, throughout the Mid-Atlantic and Southeastern United States.

KB Labs 352 367 0073. Todd Romero, toddr@kbmobilelabs.com. We provide SCDHEC, NCDENR, and NELAP certified mobile laboratory services and membrane interface probe (MIP) direct-sensing technology. Our mobile labs can analyze water, soil, and soil gas samples onsite for volatiles, pesticides, or PCBs.

MACTEC 919-831-8054. Rick Kolb, rakolb@mactec.com; www.mactec.com. MACTEC is headquartered in Atlanta and is a leading consulting firm that provides engineering, environmental, and construction services. MACTEC has over 3,000 employees in 80 U.S. locations and has offices in Asheville, Charlotte, Greensboro, Research Triangle Park, Raleigh and Wilmington, North Carolina and in Greenville and Columbia, South Carolina.

Parratt-Wolff, Inc. 800 627-7920, Robert Stevens, bsteven@pwinc.com. Ground-water Monitoring and Subsurface Exploration Services.

Prism Laboratories, Inc. 1-800-529-6364 www.prismlabs.com Prism Laboratories is a full service lab for analytical and environmental solutions. Analytical for RCRA, CERCLA, CWA, SDWA, NPDES and more! NELAC accredited, US-ACE certified, and SWBE.

Regenesis - 864-240-9181 or 864-884-4346 Drew Baird, dbaird@regenesis.com. Regenesis develops, manufactures, and markets innovative technologies to clean up the environment in a way that conserves our customers' time and money. We are located in Greenville, SC.

Schnabel Engineering 336 274 9456 Robert Cannon rcannon@schnabel-eng.com, <http://www.schnabel-eng.com>. Schnabel provides geophysical surveys, dam design and rehabilitation, geotechnical engineering, and environmental services.

SAEDACCO - 803-548-2180 www.saedacco.com. SAEDACCO is a southeast regional environmental services company headquartered in Fort Mill, SC. SAEDACCO is structured to provide turnkey environmental services including geoprobe, drilling, UST removals, remediation system installations and remediation system fabrication.

SGS Environmental 910-350-1903. Chanhuane.chanthaphone@sgs.com. Present in more than 40 countries with 91 offices and 52 laboratories, SGS Group has the capability to meet the environmental needs of international, as well as domestic industries, service organizations and governments. SGS Environmental Services is a full service laboratory; project service centers and environmental drilling offices are located in AK, CA, FL, HI, IL, MD, NJ, NY, NC, OH, and WV.

Soil Solutions, Inc. 336 725 5844 Travis Bowman travis@soilsolutionsinc.com, <http://www.soilsolutionsinc.com>. Since 1991, Soil Solutions, Inc. offers a full range of environmental construction services to private, industrial, commercial and governmental organizations throughout the Southeast.

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