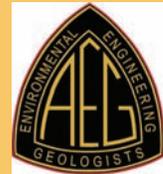


# GEO NEWS



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

## Spring 2008

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**MARK YOUR CALENDAR!**  
**Monday, April 14**  
**John Clague, Jahns Lecturer**  
**“Tsunamis—Stealth Killers”**

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

## TSUNAMIS—STEALTH KILLERS—April 14 Talk by John J. Clague at UNC Chapel Hill

The Carolinas Section of the Association of Environmental & Engineering Geologists is pleased to present the 2008 Jahns Distinguished Lecturer, Dr. John J. Clague, who will present “**Tsunamis- Stealth Killers**” at our Spring Meeting on Monday, April 14, 2008. Please note, that in order to accommodate Dr. Clague’s schedule, our spring meeting will be held on a Monday. The meeting will be held at the Friday Center of UNC Chapel Hill. Directions and meeting details are below.

AEG and the Engineering Geology Division of GSA jointly established the Richard H. Jahns Distinguished Lectureship in 1988 to commemorate Jahns and to promote student awareness of engineering geology through a series of lectures offered at various locations around the country throughout the year. Richard H. Jahns (1915-1983) was an engineering geologist who had a diverse and distinguished career in academia, consulting, and government.

### Abstract

Tsunamis are body waves generated by abrupt vertical displacement of the seafloor or lake floor by earthquakes or volcanic eruptions. They can also be produced by landslides or, much more rarely, by asteroid impacts. Tsunamis generated by submarine earthquakes (the most common source) travel at subsonic speed across the ocean surface. In the open ocean the waves are generally only a few centimeters high, but as they approach shore they rapidly grow in height and then rapidly surge onshore. Unlike seismic tsunamis, the waves created by terrestrial or submarine sedi-

ment failures, whether triggered by earthquakes or not, have only a local impact.

The main sources of destructive tsunamis in the twentieth century have been earthquakes at subduction zones bordering the Pacific and Indian oceans. In December 2004, a tsunami triggered by the second largest earthquake in history produced wave run-ups to 30 m above sea level (asl) along coasts bordering the Indian Ocean, killing almost 200,000 people. In 1896, waves up to 35 m high struck the east coast of Japan, smashing more than 100,000 houses and drowning 27,000 people.

Landslides that plunge into the sea, or that occur on the ocean floor, can also produce tsunamis. The 1964 Alaska earthquake triggered a large submarine slump near Valdez, Alaska, that produced a local tsunami. The tsunami destroyed waterfront facilities, much of the fishing fleet, and claimed 30 lives, nearly 25 percent of all the casualties of the earthquake. The 1929 Grand Banks earthquake triggered a huge submarine landslide that severed sea floor telecommunication cables far out into the Atlantic and produced a tsunami that inundated the east coast of Burin Peninsula in Newfoundland, killing 27 people.

However, 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 anchored just inside a low forested spit. Remarkably, the crew of one of the boats survived and told a harrowing tale of their boat being swept over the tops of trees, across the spit towards the open Pacific Ocean.

### Biography

Dr. Clague received an A.B. degree from Occidental College in 1967, an M.A. degree in Geology from the University of California at

Berkeley, and his Ph.D. in Geology from the University of British Columbia in 1973. He worked as a research scientist for the Geological Survey of Canada from 1974 until 1998 and then accepted an academic appointment at Simon Fraser University (SFU) in Burnaby, British Columbia. He 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. Dr. Clague is a Fellow of the Royal Society of Canada, Past-President of the International Union of Quaternary Research (INQUA), and a former President of the Geological Association of Canada. He has received several professional awards, including the Logan and E.R.W. Neale medals of the Geological Association of Canada, the Bancroft Award of the Royal Society of Canada, and the Burwell Award of GSA's Engineering Geology Division. He has been a member of the Geological Society of America since 1970.

Dr. Clague and his graduate students conduct research on a variety of natural hazards, including earthquakes, tsunamis, landslides, and floods. They also are documenting effects of Holocene climate change on glaciers, vegetation, and geomorphic processes in the mountains of western North America. Dr. Clague has authored or co-authored over 250 journal papers on these and other subjects in 40 different journals. His other major professional 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.

### Meeting Details:

Place: The Friday Center, UNC-Chapel Hill

Date: Monday, April 14, 2008

Time: 6:00 PM social hour, 7:00 dinner, 8:00 speaker

Cost: Member/Non-member \$25, Students free with college ID

Reservations: Please make reservations with Rick Kolb by Thursday, April 10, 2008

Phone: 919-831-8054; E-mail: rakolb@mactec.com

**Directions to the Friday Center:**

The Friday Center is located at 100 Friday Center Drive in Chapel Hill, approximately three miles east of the UNC-Chapel Hill campus, just off NC 54 East (Raleigh Road). The Center is a short distance from Interstate 40 (from Raleigh, I-40 exit 273A; from Greensboro, I-40 exit 273).

From Winston-Salem, Greensboro, and points West: Take I-40 East to Exit 273 (Hwy 54 West/Chapel Hill). Turn right at top of ramp. Proceed to the fourth stoplight, turn left onto Friday Center Drive (approximately two miles), and take the second right into the Friday Center parking area. Guest parking is on the left; the Friday Center is on the right.

From Durham: Take I-85 South to 15-501. Take I-40 East to Exit 273 and follow the directions above.

From Raleigh: Take I-40 to Exit 273A (Hwy 54 West/Chapel Hill). Proceed to the fifth stoplight, turn left onto Friday Center Drive (approximately two miles), and take the second right into the Friday Center parking area. Guest parking is on the left; the Friday Center is on the right.

From points south of Chapel Hill, arriving on Hwy 15-501 North: Take the 15-501/54 East bypass as you approach Chapel Hill. Take the Hwy 54 East exit (approximately two miles) toward Raleigh. Proceed to the fourth stoplight, turn right onto Friday Center Drive, and take the second right into the Friday Center parking area. Guest parking is on the left; the Friday Center is on the right.

**MESSAGE FROM THE CHAIR**

*By Rick Kolb, MACTEC, AEG Carolinas Section Chair*

We had a great winter section meeting at a new location, Rock Bottom Brewery, in Charlotte on February 28. Over 50 attended, including more than a dozen students and faculty from the University of North Carolina at Charlotte. We saw a great talk by Craig Allan of UNC-C about riparian buffers. We hope to see more students when the Jahns lecturer comes to the Triangle again for our spring meeting (let me know if your firm is hiring, and we can make an announcement and post your flyer).

You may recall that one of the objectives of the Jahns lecturer is to interface with students, and last year’s lecturer, John Moylan, spoke  
*(Continued on page 4)*

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

AEG Carolinas Section – Current Officers and Contacts  
 Chair ..... Rick Kolb, [chair@aegcarolinas.org](mailto:chair@aegcarolinas.org)  
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 AEG National Website..... [aegweb.org](http://aegweb.org)

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both to students at NC State University and at the April section meeting we held at NC State University's University Club. We are happy to announce that this year's Jahns lecturer, John Clague of Simon Fraser University in Burnaby, British Columbia, will be the speaker at our meeting on Monday April 14 (to accommodate John's schedule). As noted in the announcement elsewhere in this bulletin (see page 1), we will hold our section meeting at the Friday Center at UNC-Chapel Hill as part of our section's continuing effort to reach out to the student population. We hope that our membership will attend and take this opportunity to talk directly to aspiring geologists and let them know about the real world of practical geologists, as well as hear John's talk, entitled "Tsunamis - Stealth Killers".

John will also meet students when he presents his talk on Monday afternoon to the Marine, Earth and Atmospheric Sciences department at NC State University. On Tuesday, I will drive John to Columbia to present to USC, and on Wednesday he will visit the College of Charleston. John says this is his first visit in over 20 years, so let's welcome him to what we hope will be some warm weather relative to spring in British Columbia.

Along the same line of thought, your section's board voted to establish two annual schol-

arships of \$500 each for university students that are majoring in geological science. The national organization of AEG also offers scholarships to students, but our intent is to limit our recipients to those students in the Carolinas. We plan to offer these scholarships beginning in the fall of 2008. In the next month we plan to establish a committee of board members that will set up the program, solicit applications, and make the awards. Members who are interested, and perhaps have some experience in setting up scholarships, are welcome to help the committee members.

Elections for a new board and executive positions will be in September. We are avidly soliciting those interested in volunteering to serve on the board. The present board has served in their present positions for nearly two years (and some for more). As you well know, the lifeblood of any volunteer organization is its members and their new ideas. I encourage you to consider running for a position on our section's board. Your time commitment is not great, and you can use these positions to expand your experience working with others, to subtly advance your views (geologic or otherwise), and to enhance your resume. Please look over the board description elsewhere in this newsletter, and feel free to call/email/talk to any board member about serving. We'd love to have new ideas.

*Rick Kolb, chair*

AEG Carolinas

Chair@AEGCarolinas.org



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8<sup>th</sup> 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**

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

**Forum Information Contact:** Tony Szwilski (MU-CEGAS) 304-696-5457(Fax 696-5454), [szwilski@marshall.edu](mailto:szwilski@marshall.edu) or Kirk Beach (ODOT) 614-275-1342, [kirk.beach@dot.state.oh.us](mailto: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](mailto:robertsb@marshall.edu)

**Registration and Hotel Information:** Contact Barbara Roberts at 304-696-7103 or e-mail [robertsb@marshall.edu](mailto:robertsb@marshall.edu)

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

## Landslide Map Series for Watauga County Near Completion

By Randy Bechtel, NCGS, and Jamie Kritzer, NCDENR

The N.C. Geological Survey is involved in a landmark effort in the eastern United States to map landslide hazards in mountains using state-of-the-art geographic information systems technology and geologic work.

The survey completed a landslide hazard map of Macon County in 2006 and is completing similar maps of Watauga County as a part of the Hurricane Recovery Act of 2005. The maps provide residents, county officials and developers with the locations of landslide-prone areas and are intended as a planning tool for local governments, emergency management and the public.

Rick Wooten, senior geologist for Geohazards and Engineering Geology, presented the survey's findings to Watauga County planning officials and the public Jan. 22. Staff members with the survey are awaiting comments from county officials before submitting the final maps and accompanying GIS layers. Survey officials plan to map four other mountain counties during the next two years under the Landslide Hazard Mapping Program that was funded with \$1.6 million from the Hurricane Recovery Act of 2005. Mapping in Buncombe County should be completed later this year.

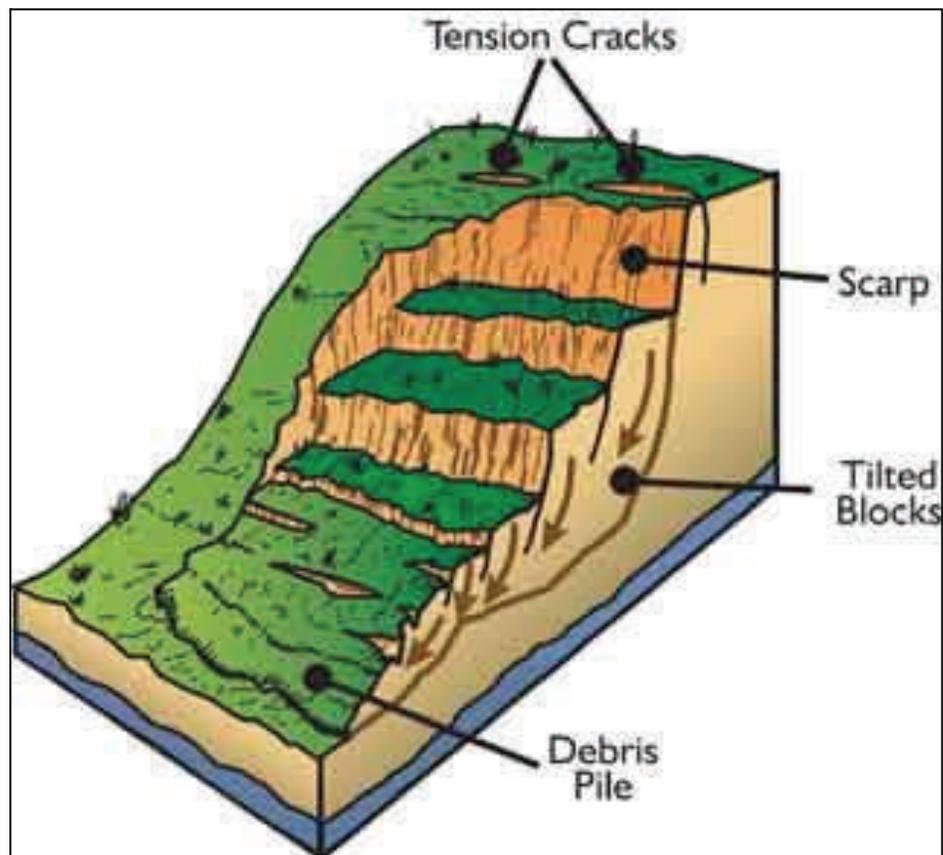
The maps are created to help raise awareness of the potential destruction from landslides similar to the landslide in September 2004 that killed five people

and destroyed 16 homes in the Peeks Creek community of Macon County. The debris flow landslide carried massive amounts of debris more than two miles and was triggered by heavy rainfall from remnants of hurricanes Frances and Ivan. Those storms also started more than 155 other landslides throughout western North Carolina. Back-to-back storms similar to Frances and Ivan caused extensive flooding and fatal landslides in western North Carolina in 1916 and 1940, too. Geologists say it is very likely this dangerous weather pattern will occur again in North Carolina.

The map series for Watauga County consists of four maps. When the maps are used together, they show where landslides have occurred or are occurring, where they might start, where they might go once they start and where rockslides are more likely to occur.

Here are some facts the landslide team has uncovered during its work:

- The program has identified 2,253 landslides in Watauga County, including 2,099 from



a storm in August of 1940.

- Eight percent of the county is covered by old landslides.
- Twenty percent of the county is considered a high hazard area based on the Stability Index Map.
- Forty-one percent of the county is in the path of landslides if they occur. The landslide study has determined that slopes more than 20 degrees have a higher potential for landslides than slopes below that threshold.

*Randy Bechtel is with NCGS, and may be reached at [Randy.Bechteln@mail.net](mailto:Randy.Bechteln@mail.net); Jamie Kritzer is the public information officer for NCDENR, and may be reached at [Jamie.Kritzer@mail.net](mailto:Jamie.Kritzer@mail.net). This article has been reprinted with permission.*



**Briget Doyle, College of Charleston, Nominated for Piteau Award**

*By Rick Kolb, AEG Carolinas Section Chair*

One of our Carolinas Section members, Dr. Briget Doyle, College of Charleston, has been nominated for AEG’s Douglas R. Piteau Outstanding Young Member Award by Dr. Norman Levine, also of the College of Charleston. Dr. Doyle has excelled in all of the areas that the award is meant to recognize. Dr. Doyle’s vitae shows that she has distinguished herself as technically competent through over 30 national and regional presentations; details are too numerous to include in this article.

Briget has been the author or co-author of the majority of these presentations. She has further distinguished herself through the publication of 3 peer-reviewed papers (with two more in preparation) and a number of invited talks. Dr. Doyle is dedicated to the AEG through her service to the society, participating at both the national and local levels. Listed below is a description of some of her activities. Finally, her service to the profession can be seen in her chosen career as a university professor -- training tomorrow’s members.

National Participation: AEG member since 1996; Published in E&EG (2 papers); AEG Student Professional Paper Competition, First place, Graduate Division, Sept. 2003; Students and Young Professionals Support Committee Member, 2007 – present; Programs Committee Member, AEG Foundation, 2008 – present; Annual meetings participation in 8 of the last 10 years; in 2010 she will be chair of the AEG Annual Meeting in Charleston.

It is fitting that the Carolinas Section acknowledges Briget’s accomplishments by supporting this nomination for the Piteau award.

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

## GEORAMBLINGS

By Dr. Charles W. Welby

Most of us have encountered at one time or another samples of the straight-coned cephalopods with straight or gently curving sutures known informally by the name “Orthoceroid cephalopods” coming from Morocco and found at rock and mineral booths at various geologic conferences and rock and mineral shows. (For this “ramblings” I am not attempting to be precise in the taxonomic terminology of these fossils as the early term “Orthoceras” adequately describes them in a general sense as the meaning of the word from Greek is ‘straight horn.’ Associated with them are also coiled cephalopods with goniatite sutures. There are small to large single specimens and small slabs with several specimens to be found. A slab of seven goniatites from Morocco, acquired from a rock and mineral shop in the Quincy Market of Boston, once “decorated” a corner of our dining room in Raleigh. It now resides in a more public place.

So it was with some anticipation that I set forth early this month for Casablanca, Morocco for a 10-day tour that would take me through “cephalopod territory.” (No Sam did not play it again!)

During the trip an abundance of opportunities existed for purchase specimens of various quality in the souks of the cities and villages and at isolated roadside stands. One can find dishes of various shapes and forms and sizes with the cephalopods in them, and in a hotel gift shop in Fez there was an attractive lamp whose base was

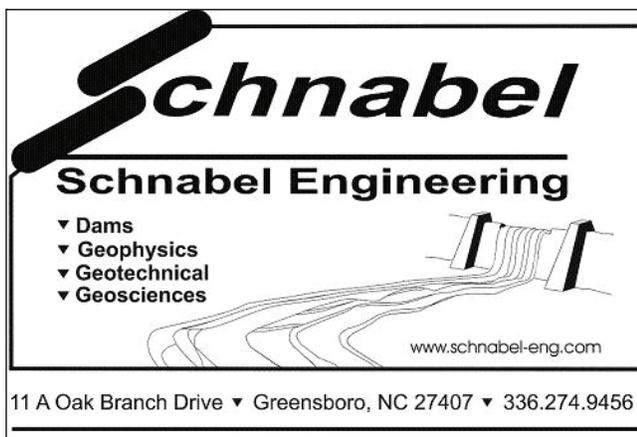
made of the black limestone which contained the straight-coned cephalopods and which had a shade made of large crystals of gypsum. Even the small urchins greeting the tourists descending from buses on their way to visit some local historical building or spot had small polished specimens to sell, and some offered concretions that had been broken open and which contained calymenid trilobites molds.

My interest in the orthoceroid nautiloid cephalopods developed many years ago while studying and mapping the Ordovician limestones exposed in the Champlain Valley of Vermont. There are a number of exposures where the straight-coned cephalopods can be found. However, most exposures are in the yards of the summer cottages abutting Lake Champlain and thus are not exactly in prime locations for collection and study.

For many years a quarry in the Ordovician rocks on Isle LaMotte north of Burlington provided slabs of rock with nautiloid cephalopods (both straight and coiled) for ornamental purposes, including interior decoration and for tables of various sizes. The limestone contained also some moderate-sized gastropods. Polished the rocks made beautiful and interesting pieces or wall or floor coverings.

Large (perhaps as long as 18 feet) straight-coned cephalopods have been found in Ordovician limestones of upstate New York, and some at one time adorned the walls of the New York Museum of Natural History in Albany, NY. (They probably still do, although I have not visited the museum in a number of years. It is a spectacular display.)

One 18-inch long fragment of an *Endoceras*, one of these large nautiloids and “fondly” known to a generation of invertebrate paleontology students as “Esmeralda,” was found at a location near a ferry landing on Lake Champlain. The specimen now resides appropriately in the Perkins Geology Museum on the campus of the University of Vermont. It came from a now inaccessible outcrop of the Glens Falls Limestone. Paper-weight sized fragments of early Middle Ordovician straight-coned cephalopods can be found at some localities, and several specimens



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reside on the mantle of our fireplace. One particular locality, now inaccessible, provided a wide range of straight-coned nautiloid cephalopods to the U.S. National Museum in Washington, DC early part in the 20<sup>th</sup> Century. The site is of historical interest as it was the location of a “fort” during the War of 1812. The outcrop area became inaccessible when fossil collectors used explosives to obtain pieces of the fossil-bearing limestone, and nearby structures were threatened with falling into Lake Champlain.

During the Morocco trip we passed through and stopped briefly in Erfoud, a main way-station for the preparation of the multitude of pieces with the nautiloid and goniatite specimens. Our Moroccan guide advised us that there was a shop in Erfoud where most of the specimens were prepared for sale, and the bus went zipping past it when we drove through Erfoud. One could see dimly some large slabs of the limestone which had been polished and could gather an inkling of what might be in them. In the limited time I had prior to the trip

and while in Morocco, I could not ascertain the exact location of the quarry or quarries from which the limestone came. *Frustration!* So it may be back to Google or some other source to fill in the details.



One of the stops on the Moroccan trip was in a Berber Camp – well, it was alluded to be a typical Berber Camp with big tents which were carpeted with rugs and with internal facilities for “necessities.” The object here was to “camp” at a typical Berber camp and to enjoy a camel ride at sunrise over the sand dunes adjacent to the camp. Because the camp was a bit of a distance from “civilization,” we made a stop about two hours after leaving it at a hotel near Erfoud for a bit of “freshening up.” In the lobby of the hotel were several large pieces of limestone standing against walls. Displayed in the polished slabs were ortho- ceroid cephalopods and

goniatites. The picture above shows one of these slabs which is between five and six feet tall and about three feet wide. It provides an intriguing display of these fossils and brings to mind questions of the environment in which the

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Continued from page 9

animal lived and of the evolution of the nautilus and related shelled cephalopods. Another slab in the same hotel lobby had a veritable “garden” of large crinoids. Not your usual hotel lobby decoration, for sure. In Fez part of the hotel lobby walls were made of ripple-marked sandstone and siltstone. One’s mind could easily become confused when trying to determine which way the current ran: up the walls, down the walls, left across the walls, or right across the walls.

In a semi-facetious way, one cannot help but wonder and perhaps come to the conclusion that the mining of the cephalopod fossils as well as trilobites and some other Paleozoic fossils and their preparation and eventual export may almost rival in financial terms the export of phosphate from Morocco, its most important mineral export.

*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](mailto:cww_ral@hotmail.com)*



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## AEG Carolinas Field Trip on April 17 to “Granite and Marble by Malave” in Greensboro

Len Malave of Granite and Marble by Maleve' has offered to host a meeting/open house on Thursday evening April 17, 2008 from 5:00 to about 10:00. This is a "field trip" style meeting at his stone warehouse and fabrication shop in Greensboro. The facility is about one mile off of I-40, and contains a showroom with some amazing rocks, including a wide variety of meta conglomerates, meta cross bedded sandstones, giant agate, marbles, crenulated schist, and even one or two pieces of true granite.

Realtors and designers will also be invited as part of the open house, so it's not just us geologists. This should be a good "outreach" opportunity for us to share our geological knowledge with people who are encouraging the use of rock in homes.

Len apparently has open houses regularly and has theme food and drink, based on one of the sources of the rock (he regularly trav-

els to quarries all over the world, to places like Italy, Brazil, Africa, etc). He even has his own cabana for this purpose.

There is a showroom with tables and counter for a presentation, or you can just simply walk around the warehouse (indoor and outdoor) and try to remember all of your petrology. The Granite and Marble by Malave web site is <http://www.graniteandmarblebymalave.com/>

To sign up for the field trip, email Gary Rogers, [grogers@schnabel-eng.com](mailto:grogers@schnabel-eng.com), or call him at 336 274 9456.



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## PASSAGES

### Ralph B. Peck—1912-2008



Ralph B. Peck, Professor Emeritus of Foundation Engineering at the University of Illinois at Urbana-Champaign died Monday, February 18, 2008 in Albuquerque, New Mexico. He was born in Winnipeg on June 23, 1912, and earned a Civil Engineering

Degree in 1934 and Doctor of Civil Engineering Degree in 1937, both from Rensselaer Polytechnic Institute in Troy, New York. He married Marjorie E. Truby on June 14, 1937. He is survived by his daughter and son-in-law, Nancy Peck (Allen) Young, and son and daughter-in-law, James (Laurie) Peck, and grandchildren, Michael Young and Maia Peck.

Ralph B. Peck joined the University of Illinois in 1942, and was a Professor of Foundation Engineering from 1948 to 1974. Since 1974, Professor Peck was a Professor Emeritus at the University of Illinois, and a consultant in geotechnical engineering, residing in Albuquerque, New Mexico. During the ASCE Geotechnical Institute Conference in 1999 at the University of Illinois, Ralph B. Peck was honored, and the first ASCE Peck Medal was awarded to Profes-

sor Don U. Deere.

Together with Karl Terzaghi, Ralph Peck published in 1948 the most influential text book in geotechnical engineering: *Soil Mechanics in Engineering Practice*. A Third Edition of this book, with additional co-author, Gholamreza Mesri, was published in 1996. Ralph Peck built a premiere geotechnical program at the University of Illinois, and succeeded in fulfilling Karl Terzaghi's hope for Peck "... to educate a generation of geotechnical engineers who retain common sense and their sense of proportion."

It is impossible to summarize the life of one of the most influential engineers of the twentieth century. Ralph B. Peck's life and work have been detailed in two books and a Norwegian Geotechnical Institute publication. *Judgment in Geotechnical Engineering – The Professional Legacy of Ralph B. Peck* was published in 1984 by John Dunnycliff and Don U. Deere. The NGI Publication 207: *Ralph B. Peck, Engineer, Educator, A Man of Judgment* was edited by Elmo DiBiagio and Kaare Flaate for dedication in 2000 of the Peck Library next to the Terzaghi Library at NGI. *Ralph B. Peck, Educator and Engineer, The Essence of the Man*, published in 2006 by John Dunnycliff and Nancy Peck Young, is the most recent and detailed.

These publications describe Ralph Peck's life, education, work, including technical articles, students, professional offices, honors and awards, and over 1000 consulting projects during his 50-year professional career. Ralph B. Peck's many recognitions include the National Medal of Science presented in 1975 by President Gerald Ford.



Mark Lassiter, P.G.  
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## AEG•2008

*New Orleans... is one part fantasy, one part mythical 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
- ◆ Every 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 Musee 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 [aseinliek@aol.com](mailto:aseinliek@aol.com).

**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/](http://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

### Sponsoring Students into AEG

By Richard P. Lovett, P.G.

I have been a long-time supporter of the idea that we need to attract more students into the organization. I was pleased to see that the Carolinas Section of AEG has been a strong supporter of this concept, and typically offers reduced or free registration fees to students who wish to attend our professional speaker programs. I applaud our section for doing this, and urge other chapters nationwide to institute similar programs to encourage college/university student to attend these types of events. Student involvement provides a fantastic networking opportunity for employers looking for new hires and students looking for employment.

But sponsoring a student membership to the AEG provides them so much more. They can pursue scholarships, partake in field trips, attend regional and national meetings, access career resources, receive the quarterly AEG News magazine, provide additional networking opportunities, and become exposed to a greater variety of engineering and environmental geology applications that they may not have been aware existed. I also feel that it is the responsibility of every environmental professional to help foster student interest in environmental geology and encourage involvement in our professional organization.

So, when I was recently contacted by a fellow AEG member to find out if someone

would be interested in sponsoring an Appalachian State University student (Chesney Gilleland) with a student membership into the AEG, I quickly volunteered the \$25. I encourage all practicing professional members to sponsor at least one student for one year. This will benefit our profession long-term! Besides, a \$25 investment is nominal when you consider the opportunities that you are providing a student.

To sponsor a student membership, contact me at 336-852-4903 or Richard\_Lovett@golder.com. Our next student member will appreciate your efforts!

### New Student Members Sponsored by AEG Carolinas

By Gary Rogers, Schnabel Engineering

JC Weaver and Laura Baker of UNC Charlotte are two of our new student members. They are benefiting from the Carolinas Section sponsorship of student memberships for their first year of membership. If you are a student you may be asking...how can I get a free year of the journal Environmental and Engineering Geosciences, a free year of AEG News, access to the Members Only part of the AEG web site, and get some name recognition for when I start sending out resumes? Just fill out an AEG Membership application, give it (or send it) to a Carolinas Section Board member and we'll pay your first year of member dues. What could be easier?



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**Call for Mentors at SE GSA**

*By Jennifer Bauer, NCGS*

The Department of Geography and Earth Sciences of the University of North Carolina at Charlotte (UNC-Charlotte) is hosting the Southeastern Section Meeting of the Geological Society of America (SEGSA) on 10–11 April 2008. During this meeting, the Carolinas Section of AEG is sponsoring a Symposium on Practical Applications of Geology in the Southeast. In an attempt to inform as many students as possible about different facets of the geology profession, the Carolinas Section has agreed to assist the GSA Foundation in finding mentors for the its two student-mentoring programs during the SEGSA meeting.

**Roy J. Shlemon Mentor Program in Applied Geoscience.** Thurs.–Fri., 10–11 April,

11:30 a.m.–1 p.m. Free meal included. This interactive and informative program for undergraduate and graduate students, led by professional geoscientists, will cover real-life issues, including professional opportunities and challenges that await students after graduation.

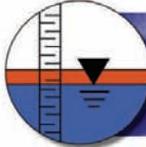
**The John Mann Mentors in Applied Hydrogeology Program.** Thurs., 10 April, 5–6:30 p.m. Free meal included. This early evening event presents mentoring opportunities to undergraduate and graduate students, as well as recent graduates, who have an interest in applied hydrogeology or hydrology as a career to interact and network with practicing hydrogeologic professionals. This program is a focused, small-scale event that features free pizza for participants.

If you are planning on going to the SEGSA meeting, or will be in the Charlotte area on April 10-11 and are interested in becoming a

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mentor or would like more information, please contact Jennifer Bauer of the AEG-Carolinas Section at [jennbbauer@gmail.com](mailto:jennbbauer@gmail.com). You may also visit the GSA Mentors page or contact GSA's mentoring program coordinator Jennifer Nocerino [[jnocerino@geosociety.org](mailto:jnocerino@geosociety.org)]. If you would like more information on the SEGSA meeting, please visit the website <http://www.geosociety.org/sectdiv/southe/08mtg/index.htm>. We hope to see you there!

The newly formed AEG Student/Young Professional Support Committee is initiating a Visiting Professionals Program in order to reach more students earlier in their academic careers. Visiting Professionals will communicate about the field of environmental and engineering geology and explain to students how AEG can support them as they pursue their education and career in geology.

This initiative is just one of several the committee is pursuing to reach students and young professionals, including developing a Face Book page, a "Welcome to the Profession" package, and a graduation gift of one year's pro-

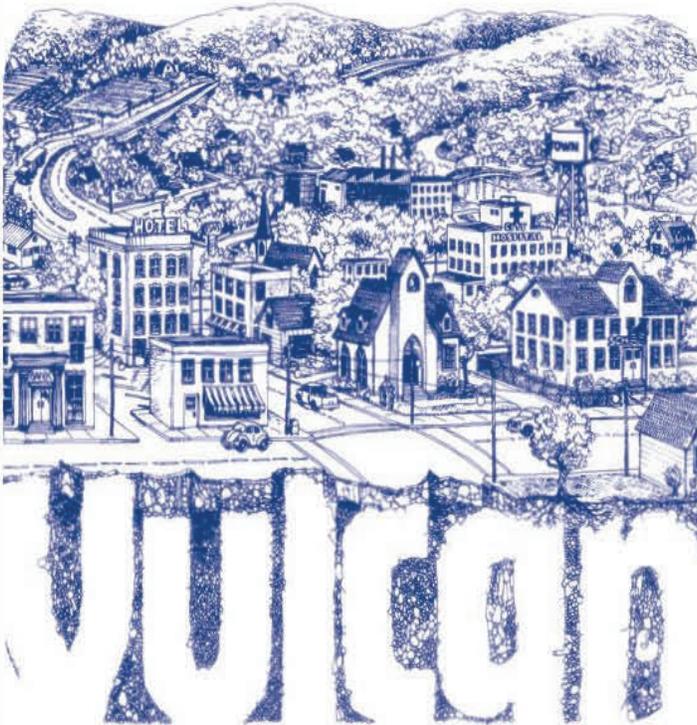
fessional membership to graduating AEG student members. Since the committee believes face-to-face contact with AEG members has the potential for a very positive impact with students and young professionals, we are starting the Visiting Professionals Program first.

We are calling for volunteers to serve as Visiting Professionals. We especially want to reach students at schools that don't have the support an AEG Student Chapter. A Visiting Professional could choose from a variety of presentations including an informal question and answer session with a campus geology club, a talk about your experiences throughout your career, or a more formal presentation of a case study.

We'd like you to consider one visit during the academic year to a campus in your area to help us launch this program. If travel is involved, we anticipate the availability of funding to support travel expenses, though we do ask you to volunteer your valuable time.

If you are interested please contact Becky Roland at [broland@aegweb.org](mailto:broland@aegweb.org).

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## Macklin Armstrong to Teach Course on Groundwater Investigations in Saudi Arabia

Macklin M. Armstrong, CPG 07485, will travel to Saudi Arabia in March 2008 to present two three-day Technical Short Courses on Environmental Site Assessments and Soil & Ground Water Investigations to members of the Saudi Arabian Section of the Air & Waste Management Association.

These courses will be followed by two three-day courses in May 2008 on Soil & Ground Water Remediation and Environmental Compliance Audits.

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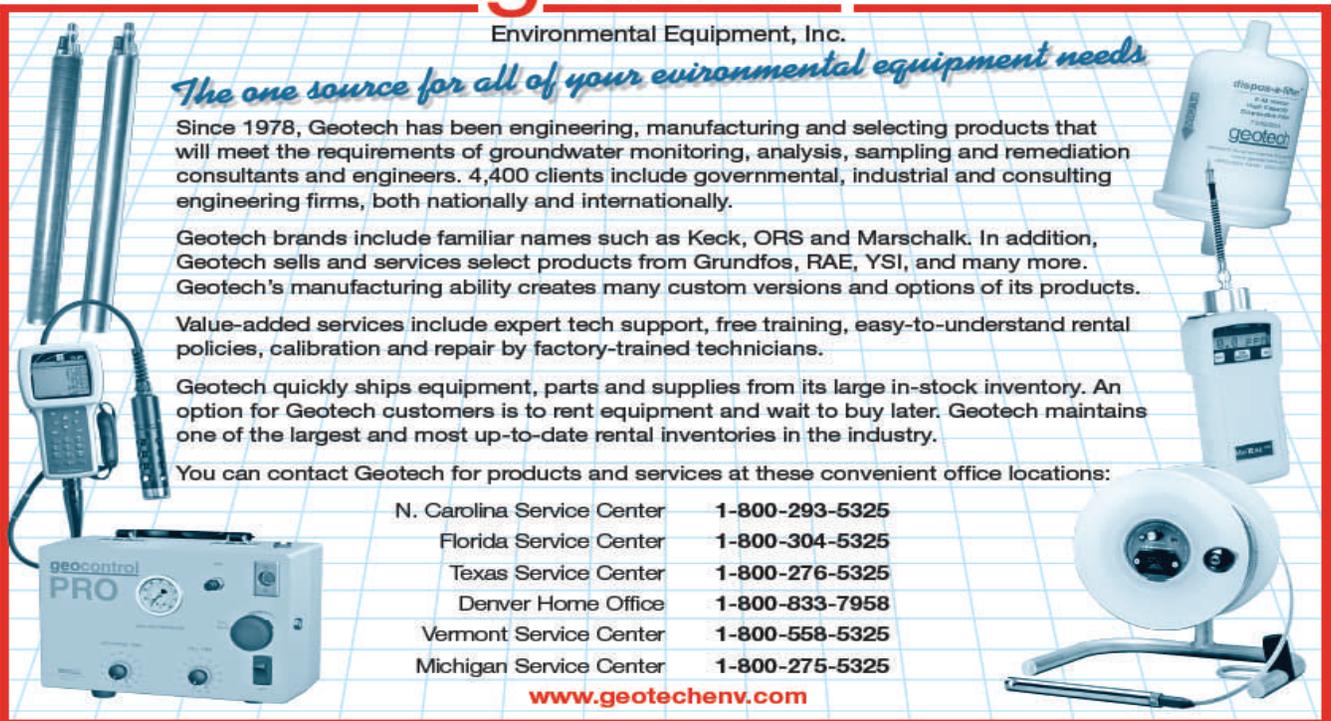
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Geotech quickly ships equipment, parts and supplies from its large in-stock inventory. An option for Geotech customers is to rent equipment and wait to buy later. Geotech maintains one of the largest and most up-to-date rental inventories in the industry.

You can contact Geotech for products and services at these convenient office locations:

N. Carolina Service Center	1-800-293-5325
Florida Service Center	1-800-304-5325
Texas Service Center	1-800-276-5325
Denver Home Office	1-800-833-7958
Vermont Service Center	1-800-558-5325
Michigan Service Center	1-800-275-5325

[www.geotechenv.com](http://www.geotechenv.com)



## AEG OFFERS TWO DAY COURSE in Rock Slope Stability Analysis and Mitigation in Blacksburg VA

AEG is offering a two day short course, Rock Slope Stability Analysis & Mitigation, on April 3-4, 2008 at The Inn at Virginia Tech & Skelton Conference Center, 901 Prices Fork Road, Blacksburg, VA. Faculty features Skip Watts, PhD, PG, Radford University and Virginia Tech; Bill Gates, PhD, PE, and Martin Woodard, PhD, PG, and Brendan Fisher, PG, PE, all of Kleinfelder, Inc. Proceeds will benefit VT & RU academic programs in Environmental & Engineering Geosciences.

This two-day short course will focus on rock slope stability evaluation & mitigation presented from the standpoint of practitioners re-

sponsible for design and construction of excavations in rock. Although basic knowledge of rock slope stability theory is recommended, the course provides a refresher. This course will cover basic & advanced topics as well as new technologies for characterization of rock faces. Included will be Laser Imaging Detection and Ranging (LIDAR). When combined with advanced processing, software can now automatically perform rock mass fracture characterization on exposed rock faces. This eliminates some of the safety hazards, access problems, and human biases associated with manual data collection techniques. It also allows for the rapid analysis of data and larger data sets.

Registration Fees (Includes 1.5 CEUs)  
AEG Members - \$390 (\$490 after 3/28) Non-members - \$450 (\$550 after 3/28) Student ID - \$75 (submit copy of ID with registration). For more information, email [cwatts@vt.edu](mailto:cwatts@vt.edu).

### IMPORTANT NOTICE - PLEASE READ!!! 2008-2009 NC Geologist License Renewal Available Online

All current individual and corporate NC Geologist licenses expire on June 30, 2008. You may now renew your current license online at <http://www.ncblg.org>. Click on "Click here to renew your license online" and follow the instructions. This renewal method is fast, safe and secure. You may pay by either MasterCard or Visa. You will receive email confirmation of your payment and your renewal card will be sent by mail.

If you do not wish to renew online at this time, you may click on the license renewal link for a printable form.

You may contact the Board office to receive a form by mail. P.O. Box 41225, Raleigh NC 27629-1225, [ncblg@bellsouth.net](mailto:ncblg@bellsouth.net) (email), 919/872-1598 (fax), 919/850-9669 (phone).

Check your contact information by clicking on "Licensees" on the left hand side of the website homepage. If your address or contact information has changed, you may make corrections by sending an update in writing by email to the Board at [ncblg@bellsouth.net](mailto:ncblg@bellsouth.net) or by mail to P.O. Box 41225, Raleigh, NC 27629-1225. Address corrections will not be made from online renewal submissions.

Please feel free to contact us!

Barbara U. Geiger, NC Board for Licensing of Geologists  
P.O. Box 41225  
Raleigh, NC 27629-1225  
919/850-9669 (phone or 919/872-1598 (fax)  
[ncblg@bellsouth.net](mailto:ncblg@bellsouth.net)

## Schlemon Conference Scheduled for June 6-8 – Announcement and Call for Abstracts

The third annual AEG Schlemon Conference will be held in Folsom, California on June 4-6, 2008. Schlemon Conferences are sponsored by the AEG Foundation and the Association of Environmental & Engineering Geologists, and follow procedures typical of the Geological Society of America Penrose Conferences and the American Geophysical Union Chapman Conferences. The conferences are intended to promote and disseminate practice and research results, and to foster the improvement and understanding of applied geology. The event will include keynote presentations by invited experts, volunteered poster presentations by conference attendees, a field excursion, and ample time for informal conversations.

Naturally occurring hazardous geologic substances include arsenic, mercury, uranium and other heavy metals, radon, and asbestos. The conference will focus on the geologic assessment of these substances including the strategies for sampling and problems with the current analytical methods. However, we will also discuss the interactions between the geologic community and the risk assessment and toxicology communities with regards to the collection of data and inter-professional communication.

The conference will emphasize those principles common to the investigation of naturally occurring hazardous geologic substances in general, using the substances listed as examples. Topics covered will also include those characteristics and concerns unique to the assessment of naturally occurring particulates, heavy metals, and gases. Examples will be presented from throughout the United States, as well as from other countries. Key-note presenters have been selected based on topic and diversity of experience and additional presenters will be selected to enhance the conference content.

The field trip held in conjunction with the conference will visit the Motherlode region of the central Sierras in El Dorado and Amador

Counties to view and discuss exposures of asbestos-bearing rock; view areas where elevated metals including arsenic, nickel and chromium occur, and visit an area where naturally occurring radon gas associated with regional granitic rocks occurs. Sites visited will include areas of historic mining where we will discuss the role of mining in providing a preferential exposure pathway.

Two days of technical sessions are planned. Each session will include invited keynote speakers who will be followed by brief oral abstracts and poster presentations contributed by conference participants. The one-day field excursion will be conducted on the second day of the conference.

Small specialty conferences such as this one depend on volunteered presentations and active participants! All attendees are strongly encouraged to contribute to the program by offering a poster presentation.

Conference attendance will be limited to 50 participants.

Conference organizers are: David W. Bieber, Geocon Consultants, Inc, [bieber@geoconinc.com](mailto:bieber@geoconinc.com); David Sederquist, Youngdahl Consulting Group, Inc., [dcs@youngdahl.net](mailto:dcs@youngdahl.net); and Jim Brake, Geocon Consultants, Inc, [brake@geoconinc.com](mailto:brake@geoconinc.com).

For detailed information and the application form, visit [www.aegweb.org](http://www.aegweb.org) or contact the conference organizers by phone or e-mail.

### Call for Abstracts:

Submit an abstract to present as a poster session. Abstracts are due no later than April 1, 2008 (include title of abstract, your full name, address, and email address; 350-word count suggested). Contact numbers are above.

**TEE-SHIRT DESIGN CONTEST***By Jane Gill-Shaler, GeoNews Editor*

Get out your pens, pencils, markers, and drawing programs. We are looking for a tee-shirt design for the AEG-Carolinas Section. The design or design idea should be easily discernible (not just a photograph) and may be clever wording, a good graphic, and/or interesting and tasteful placement of the design on the shirt. The design should be in one, two, or three colors; be in either AdobeAcrobat, tiff, or jpg format.

Deadline for submittal of your design is April 21, 2008. Designs must be your own and not violate any third party rights (e.g. copyrights, picture rights, personal rights, trademarks.) You must possess usage rights for the designs. As long as these rules are followed, it is okay if you have already submitted your design to other contests. The AEG Carolinas board will judge the designs, and award \$100.00. Designs will be judged by the AEG Carolinas Board. Submit by email to [RAK0lb@mactec.com](mailto:RAK0lb@mactec.com).



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## "NO CHILD LEFT INSIDE" - Earth Science Week Theme for 10th Anniversary in 2008

Alexandria, VA - The American Geological Institute (AGI) is pleased to announce that the theme of Earth Science Week 2008 will be "No Child Left Inside."

"No Child Left Inside" will focus the nation on learning about the earth sciences in their natural setting, outside. Schoolchildren across the nation will turn off the TV and step away from their computers to discover the rocks, soil, watersheds, and weather patterns in their community.

"The best earth science classroom, any geoscientist will tell you, is the outdoors," says Ann E. Benbow, AGI Director of Education and Outreach. "We're encouraging students, teachers, and everyone interested in earth science to learn by experiencing it firsthand during Earth Science Week 2008. That means hiking over and digging into the Earth, taking water samples,

making cloud observations, and more."

This year marks the 10th anniversary of Earth Science Week. Since the beginning, the event has grown dramatically, enabling more students to focus on the many aspects of the earth sciences and the various careers within the field.

To learn more about this week, ways to become involved; including newsletters, local events, and classroom activities, please go to the Earth Science Week website at <http://www.earthsciweek.org>.

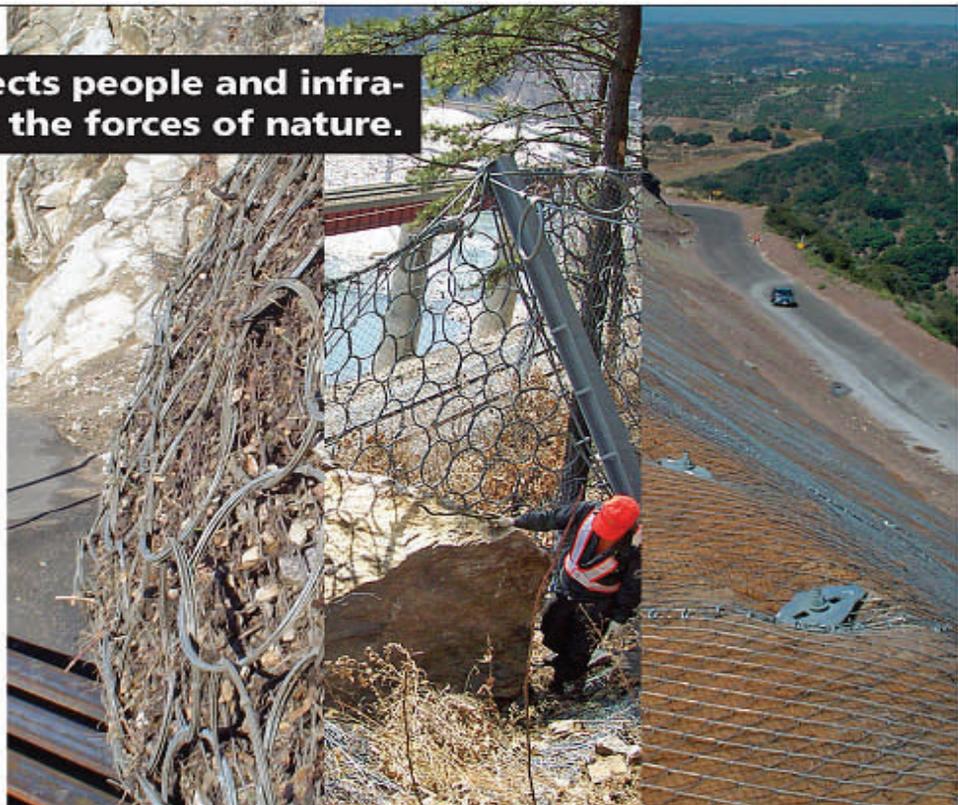
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## CALL FOR ABSTRACTS Changing Waterscapes Symposium in Flagstaff

You are invited to participate in the symposium on Changing Waterscapes and Water Ethics for the 21st Century and Global Geoscience Practice, Standards, Ethics, and Accountability. This milestone event is organized by a committee of the American Institute of Professional Geologists (AIPG), Arizona Hydrological Society (AHS), and the 3rd International Professional Geology Conference (3rd IPGC). Sponsors include: AIPG, AHS, AESE, AAPG-DPA, ASBOG, CCPG, EFG, IYPE, NAU, NGWA, and USGS.

The symposium will be held in Flagstaff, Arizona from September 20-24, 2008. Presentations and Poster Sessions will be held September 22 and 23, 2008 at the High Country Conference Center at the Northern Arizona University campus and the Radisson Hotel in Flagstaff.

Field trips will be offered to the Grand Canyon, the San Francisco volcanic field, the Jerome mining district, Anasazi cliff dwellings,

and other geologic and cultural sites.

The symposium includes technical sessions, poster sessions, workshops, welcome reception, technical tours, and field trips. Abstract Subject Areas include: Artificial Recharge and Aquifer Restoration, Colorado River Basin Climate, Hydrology and Ethics: Past, Present and Future, Forest Watershed Management, GIS and Water Resources, Groundwater Issues and Ethics, Groundwater Restoration, Human vs. Ecosystem Needs, and others. Abstracts are due May 15, 2008, and authors will be notified by July 1, 2008. To have your abstract considered for a presentation or poster session, please submit a one-page abstract and the Abstract Submittal Form by April 15, 2008.

Submit abstracts to: Cathy Duran Professional Services Manager AIPG 1400 W. 122nd Ave., Suite 250 Westminster, CO 80234 Phone: (+1) 303-412-6205 Fax: (+1) 303-253-9220 E-mail: [cld@aipg.org](mailto:cld@aipg.org).

For more detailed information or to register for the symposium please go to: <http://www.aipg.org/2008/AIPG-AHS-3IPGC.htm>.



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## 2010 Annual AEG Meeting in Charleston, SC Needs You!

AEG Carolinas' is looking for volunteers to help with planning and running the AEG 2010 Annual Meeting in Charleston, SC, September 20-26, 2010, a short 18 months from now. 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. A listing of the committees and current chairs is below: a full description of all committees can be found on the AEG Carolinas' webpage at <http://www.aegcarolinas.org/>.

If you want more information, need convincing that this is your best opportunity for learning what it takes to put on a meeting of this size and scope, or are interested in volunteering your expertise, please contact Briget Doyle, the AEG 2010 Meeting Chair, at [doyleb@cofc.edu](mailto:doyleb@cofc.edu). Contact information is below; line blanks indicate that here is where your help is needed most.

Please step up to the plate - we need all the help we can get!

Thank you for your help,

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](mailto:doyleb@cofc.edu)

Norm Levine, AEG 2010 Vice-Chair  
College of Charleston  
[levinen@cofc.edu](mailto:levinen@cofc.edu)

Julie Keaton, AEG Meetings Director  
[aeg@aegweb.org](mailto:aeg@aegweb.org)

### 2010 Annual Meeting Committees:

Field Trip Committee:

(Co-Chairs: Tami Idol and Jennifer Bauer).

Finance Manager/Committee:

**VOLUNTEER NEEDED**

Sponsor Solicitation

(Chair: Jane Gill-Shaler).

Outstanding Environmental & Engineering Geologic Project Committee:

(Chair: Raymond Knox).

Publicity Manager/Committee – Regional:

**VOLUNTEER NEEDED**

Short Course Committee:

•Teachers Workshop (Short Course sub-committee or can be separate committee):

**VOLUNTEER NEEDED**

Special Publication(s) Committee:

**VOLUNTEER NEEDED**

Special Activities Committee:

Spouse/Guest Activities and Hospitality Room Manager/Committee

**VOLUNTEER NEEDED** (preferably someone familiar with Charleston area)

Student Volunteer Coordination:

(Committee Chair: Norm Levine)

Technical Sessions Committee:

**VOLUNTEER NEEDED**

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

**VOLUNTEER NEEDED**

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

**VOLUNTEER NEEDED**



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## AEG SECTION OFFICERS - Outline of Duties

By Jane Gill-Shaler

There is always a need for officers in a professional organization, and AEG Carolinas is no exception. Members who benefit from the efforts of the officers may not know just exactly what is needed in keeping the organization running, such as organizing speaker meetings and field trips, publicizing events, fulfilling the reporting requirements of the sections to the national organization, taking care of the finances and keeping track of scholarships and sponsors, and so on.

Unfortunately, this sometimes discourages new members and even long time members from volunteering their time, and because the jobs need to be done for this organization, the same members step up to the plate time and time again. To remedy this lack of information, the duties of the officers are briefly summarized here; please note that the positions are quite flexible, and many of the tasks are shared by several of the officers.

**CHAIR** Responsibilities of the Chair are to delegate, create an annual planning document with the other officers, distribute announcements of events, update the Section web page on the AEG server, ensure that the annual tax statement of the section is sent to the Denver office two weeks ahead of the deadline, attend the mid-year and annual Board of Directors meetings, and deliver Section reports. The Chair may also appoint Committees as needed, maintain the email distribution list, set agendas for the quarterly Section Board Meetings, and coordinate a bi-annual Short Course.

**VICE CHAIR** The Vice Chair is responsible for organizing one meeting per year, and coordinates the Education Outreach Program to Universities and Public Schools, and signs up two section sponsors per year.

**TREASURER** Responsibilities of the Treas-

urer include; maintain the financial books and provide a quarterly report to the Section Board; coordinate section sponsors and advertisement; send acknowledgement letters to each sponsor, and provide the Annual Financial Report to the Chair for signature 3 weeks prior to the deadline for submission to the national office. In addition, the Treasurer organizes one meeting per year, and is encouraged to sign up two Section Sponsors per year.

**SECRETARY** The Secretary maintains the minutes of the Section Board meetings, organizes one meeting per year, signs up two Section Sponsors per year, and is an agitator for GeoNews material.

**MEMBERSHIP CHAIR** The Membership Chair contacts members who have not renewed by December 1 of each year, and recruits new members. The Membership Chair may also develop ideas on activities that would attract new members

**PAST-CHAIR** The Past Chair would work with the NC CEC Interprofessional Committee on issues of interest to geologists and engineers; in addition, the PC would also recruit or renew two Section Sponsors, work on Special Projects and prepare and tally ballot for next year's Officers

**NEWSLETTER EDITOR** The GeoNews Editor prepares and issues quarterly issues of GeoNews, and ensures that sponsors and advertisers have their materials in each issue. The Editor also sends the Carolinas Section news to AEG News Editor on a quarterly basis and issues Press Releases for relevant meetings

Please consider offering to run for one of these positions—former officers will be happy to give you all the information you need, and you will gain very valuable leadership skills. And you will have a lot of fun! To get on the ballot, email Rick Kolb, Carolinas Section Chair, at [RAKolb@mactec.com](mailto:RAKolb@mactec.com)



**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](http://www.aegcarolinas.org).

**Gold Sponsor (\$375):**

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

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

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

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](http://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](http://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)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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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](mailto:janehgill@aol.com).

**MAKE CHECK OUT TO AEG CAROLINAS**

Snail mail form and payment to:

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

*1636 West Lexington Ave.*

*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.

Check Us Out  
[www.aegweb.org](http://www.aegweb.org)

**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](http://www.aegweb.org)

## CALENDAR OF EVENTS - 2008

### Geological Events in the Carolinas

Courtesy of AEG Carolinas Section – [www.aegcarolinas.org](http://www.aegcarolinas.org)  
Send updates/corrections to Carin Kromm at [clkromm@mactec.com](mailto:clkromm@mactec.com)

Last updated March 21, 2008

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

**Date: March 25-28, 2008,**

Event: **NAEP Annual Conference-Changing Climates**

Location: The Omni Hotel, San Diego, California

Contact: Vickie Miller-President ([Vickie.miller@hdrinc.com](mailto:Vickie.miller@hdrinc.com))

Est: PDH: Unknown

**Date: April 10-11, 2008**

Event: **Southeast Section GSA 57<sup>th</sup> Annual Meeting**

Location: Hilton Charlotte University Place

Contact: Andy Bobyarchick [[arbobyar@uncc.edu](mailto:arbobyar@uncc.edu)]

Est: PDH: Unknown

**Date: April 10-11, 2008**

Event: **Geo<sup>3</sup>T<sup>2</sup> Conference and Expo.**

Location: Marriott Executive Park, Charlotte, NC

Contact: <http://www.ncdot.org/doh/preconstruct/highway/geotech/geo3t2/>

Est: PDH: 11

**Date: April 14, 2008, Monday**

Event: **Presentation by Jahns Distinguished Lecturer -- Dr. John Clague**

Location: Jordan Hall, North Carolina State University; Raleigh, North Carolina

Description: Tsunamis- Stealth Killers

Time: 3:30-4:30 pm

Cost: None

Contact: Rick Kolb ([rkolb@mactec.com](mailto:rkolb@mactec.com))

Est: PDH: 1

**Date: April 14, 2008, Monday**

Event: **AEG Spring Dinner Meeting, Jahns Distinguished Lecturer -- Dr. John Clague**

Location: The Friday Center, University of North Carolina; Chapel Hill, North Carolina

Description: Tsunamis- Stealth Killers

Time: 6:00 – 9:00 pm

Cost: \$25 Member and \$25 Non-Member; Students Free w/ college ID

Contact: Rick Kolb ([rkolb@mactec.com](mailto:rkolb@mactec.com))

Est: PDH: 1



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<b>CALENDAR OF EVENTS - 2008—continued</b> <i>Geological Events in the Carolinas</i>
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**Date: April 15, 2008, Tuesday**Event: **Presentation by Jahns Distinguished Lecturer -- Dr. John Clague**

Location: Coker Life Sciences Room 215, 715 Sumter Street, USC, Columbia, South Carolina

Description: Tsunamis- Stealth Killers

Time: 3:30 pm

Cost: None

Contact: Raymond Knox (rknox@schnabel-eng.com)

Est: PDH: 1

**Date: April 16, 2008, Wednesday**Event: **Presentation by Jahns Distinguished Lecturer -- Dr. John Clague**

Location: Physicians Auditorium, Rita Liddy Hollings Science Center at the College of Charleston, (corner of Coming St. and George St.)

Description: Tsunamis- Stealth Killers

Time: 11:00 am

Cost: None

Contact: Briget Doyle (doyleb@cofc.edu)

Est: PDH: 1

**Date: April 17, 2008**

Event: AEG Field Trip- Granite and Stone Warehouse and Fabrication Shop

Location: Granite &amp; Marble by Malave, 150 Industrial Drive, Greensboro, NC

Description: Open house to view hundreds of slabs of polished rock. Bring your rock and mineral book.

Time: 5-10 pm

Cost: Free

Contact: Gary Rogers, Schnabel Engineering ([grogers@schnabel-eng.com](mailto:grogers@schnabel-eng.com))

Est: PDH: None

**Date: May 14, 2008**Event: **NCSU Stream Restoration Program: Assessment and Identification of Riparian Vegetation**

Location: Dan Pollitt Conference Center, RAFI, Pittsboro, NC

Description: Introduce attendees to vegetation assessment of riparian areas along streams that may be re-stored; classroom study and field work

Time: 9:00 AM - 5:00 PM

Cost: \$185; registration limited to 20

Contact: [www.ncsu.edu/srp](http://www.ncsu.edu/srp)

Est: PDH: Unknown

**Date: May 19-23, 2008**Event: **NCSU Stream Restoration Program: Delineation of Jurisdictional Wetlands-Southeastern Piedmont and Coastal Plain**

Location: Raleigh/New Bern, NC

Contact: [www.ncsu.edu/feop/wetlands/index.html](http://www.ncsu.edu/feop/wetlands/index.html)

Est: PDH: Unknown

**CALENDAR OF EVENTS - 2008—continued**  
*Geological Events in the Carolinas*

**Date: May 15-18, 2008**Event: **AEG Mid Year Board Meeting**

Location: Portland, Oregon

Contact: Carin Kromm, MACTEC Engineering and Consulting, Inc. ([clkromm@mactec.com](mailto:clkromm@mactec.com))

Est: PDH: N/A

**Date: June 26, 2008**Event: **Ground Water Professionals of North Carolina Quarterly Meeting**

Location: Days Inn, US 1 @ Morganton Road; Southern Pines, North Carolina

Contact: Chris Hay, Trigon Engineering ([chay@trigoneng.com](mailto:chay@trigoneng.com)), [www.gwpnc.org](http://www.gwpnc.org)

Est: PDH: Unknown

**Date: June 27, 2008**Event: **Ground Water Professionals of North Carolina 10<sup>th</sup> Annual Golf Tournament**

Location: Tobacco Road Golf Club, Rocky Fork Church Road, Sanford, NC

Contact: Scott Pearce, A&D Environmental [spearce@adenviro.com](mailto:spearce@adenviro.com) [www.gwpnc.org](http://www.gwpnc.org)

Est: PDH: Don't you wish?

**Date: September 15-20, 2008**Event: **AEG Annual Meeting**

Location: New Orleans, LA

Contact: [www.aegweb.org](http://www.aegweb.org)

Est: PDH: Unknown

**Date: October 8-10, 2008**Event: **Water Resources Research Institute 2008 Annual Conference**

Location: McKimmon Center, Raleigh, North Carolina

Contact: [www.ncsu.edu/srri/conference/index.html](http://www.ncsu.edu/srri/conference/index.html)

Est: PDH: Unknown

**Date: October 5-9, 2008**Event: **Geological Society of America Annual Meeting**

Location: Houston, Texas

Contact: <http://www.geosociety.org/meetings/>

Est: PDH: Unknown

**Date: October 16, 2008**Event: **Fall AEG Meeting**

Location: TBD, Greensboro, North Carolina

Contact: Carin Kromm, MACTEC Engineering and Consulting, Inc. ([clkromm@mactec.com](mailto:clkromm@mactec.com))

Est: PDH: 1

**Date: November 3-6, 2008**Event: **Southeast Regional Stream Restoration Conference**

Location: Renaissance Hotel, Asheville, North Carolina

Contact: [www.bae.ncsu.edu/programs/extension/sqg/srp/conference.html](http://www.bae.ncsu.edu/programs/extension/sqg/srp/conference.html)

Est: PDH: Unknown

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