





## *Fellowship Announcement*

*By David B. Scott*

In case you missed the announcement in last years edition of Concrete International, the Carolina's Chapter of ACI has established the Barbara S. and W. Calvin McCall Fellowship. The new fellowship was approved to provide a \$7,000 fellowship to be awarded to students pursuing Undergraduate, Masters, or PhD students in an engineering discipline of construction, design, education, and/or materials. The requirements of the reward include it being awarded to a student in good standing with a University located in North Carolina or South Carolina, and will look with favor upon applicants with a field of study related to concrete. The Fellowship honors two individuals who have spent decades contributing to the science and proliferation of concrete and have shown longstanding dedication to the Carolina's Chapter. Given this couple's deep-seated commitment to the concrete industry at -large and the extensive impact they have made to individual lives within the concrete community, it is with sincere honor and respect that we establish this fellowship.



*McCall Fellowship offered in honor of Calvin and Barbara McCall pictured above.*

The ACI Carolina's Chapter is honored to announce that the inaugural fellowship reward has been extended to its first recipient – NC State University's Steven Thornton. The fellowship committee reviewed applications for the reward and it was determined that Steven was a good recipient for this award due to his commitment to the student chapter at NC State. To paraphrase Steven's acceptance of the fellowship, he is honored to be rewarded this fellowship and looks forward to offering inspiration and leadership to other students at the concrete industry. **Congratulations, Steven!!**

**ACI CAROLINAS CHAPTER THANKS ALL OUR VOLUNTEERS, WHO USE THEIR VALUABLE TIME AND TALENT TO SUPPORT THE CHAPTER. WITHOUT THEIR SUPPORT, THE CHAPTER WOULD NOT BE ABLE TO OFFER THE VARIETY OF CERTIFICATIONS TO THE CAROLINAS.**

**VISIT OUR WEBSITE AT [www.aci-carolins.org](http://www.aci-carolins.org) FOR A COMPLETE LIST OF CERTIFICATIONS: Field Grade I, Adhesive Anchor, Flatwork Finisher, Laboratory Testing Technician, Aggregate Testing, Concrete Strength, Masonry, Concrete Construction Inspector, Concrete Transportation Construction Inspector and Tilt-Up Supervisor**



**ACI CAROLINAS  
CHAPTER  
SUPPORTS  
ACI STUDENT  
CHAPTERS**

## **STUDENT CHAPTERS—THE FUTURE OF THE CONCRETE INDUSTRY**

**by Cecil Jones**

The North Carolina State University ACI Student Chapter has been very active for many years under the strong guidance of Roberto Nunez, who serves as the student advisor for the chapter. Currently, the chapter has approximately twelve members, eight of who attended the ACI Convention in Washington, DC. Six new members attended the Convention this semester and they are planning for a larger participation next semester. The new members really enjoyed the Convention and planed to attend the Convention in Kansas City, MO. The president of the student chapter is Elizabeth Phelps.

The student chapter participated in the Egg Protection Device competition at the Convention, along with other students from around the world. Although the chapter's design did well, another student chapter won the competition. In addition to participating in the student competition, members attended seminars and technical committee meetings at the Convention. The chapter also plans to participate in the Concrete Construction Competition later this month.

The student chapter at NC State University also conducts ACI Concrete Field Testing Technician Grade 1 certification sessions for the North Carolina Department of Transportation. Members of the student chapter have obtained this certification themselves and are therefore in a position to assist with the instruction and serve as Supplemental Examiners for the performance testing phase of the certification program.

The Carolinas Chapter is honored to support this, and other student chapters. Carolinas Chapter members are always very impressed after engaging with any of our student chapter participants, and comfortable in the knowledge that the future of our industry is in good hands with these energetic and dedicated students.

**NORTH CAROLINA  
STATE UNIVERSITY  
ACI STUDENT CHAPTER  
AT THE ACI CONVENTION  
IN  
WASHINGTON, DC**







## ACI SEMINAR

By Sam Frederick

**For those who missed this event, be on the lookout for a second round in Fall 2015**

On March 5, 2015, ACI International and the ACI Carolinas Chapter held its first Reorganized for Design Building Code Seminar in Charlotte, NC. The topics discussed consisted of; Philosophy and Organization, Reference Standards, Structural Systems, Beams, Two Way Slabs, Columns, Walls, Diaphragms, Foundations and Plain Concrete, Joints and Connections, Materials, Strut-and-Tie Models, Construction, and Technical Changes. The full day seminar was held at the Charlotte Motor Speedway, which included an amazing lunch with full view of the race track. Attendance of 46 consisting of; consulting Engineers, Ready Mix Concrete Engineers, representatives from the Precast industries, Cement manufactures, and associated industry professionals. Presentation were executed by; James Wight, FACI and FASCE – F.E. Richart, Jr. Collegiate Professor of Civil Engineering at the University of Michigan, and Michael Tholen, PHD, PE – Managing Director, Professional Development at the American Concrete Institute. All attendees received current publications of the ACI 318 Building Code. All the presentations were well received and captured the attention of all who attended. The added bonus had to be the over-whelming amount of fresh, warm, cookies/brownies and cool refreshing drinks during the afternoon break. This refreshing break kept our motors reeving through the afternoon. A special thank you to all the presenters and attendees for their help in making this seminar a memorable one.

### ACI Carolina's Chapter Summary of Educational Meetings

By David B. Scott

The Carolinas Chapter of ACI place a high value on the opportunity to host education meetings for the betterment of our patrons. Recent years included meetings with a focus on flatness and levelness testing of floors, moisture issues, structural design and construction, coatings, concrete specifications, corrosion, etc. Following along the footsteps of previous years, 2014 consisted of high-quality educational opportunities hosted by ACI's Carolina's Chapter at various cities throughout the North and South Carolinas. The focus of 2014 was Fly Ash. The focus of 2015 is going to be air – entrained or entrapped – in concrete. More specifically, your leaders of the Chapter are putting together these sessions which will educate on the aspects of Pre-Con meetings, admixtures, and hot-weather and high early-strength concreting. The seminars include speakers who are nationally recognized within the concrete community. Be on the lookout for announcements of these educational meetings at the new and improved website utilized by the Chapter. Be sure to Bookmark this website and visit it frequently for announcements and alerts regarding the activities hosted by the Chapter.

**See Page 6 for an article on our May 5th First 2015 Educational Meeting.**



*For those who missed this event, be on the lookout for the Up-Coming Educational Meeting to be held on October 7, 2015 in Charlotte, NC.*

## **2015 EDUCATIONAL MEETING—MAY 5, 2015** by Sam Frederick

On May 5, 2015, the ACI Carolinas Chapter held its first seminar for the year in Charleston, South Carolina. The topics discussed consisted of; Concrete Admixtures – Adding/Removing and Their Relationships, Hot Weather Concreting, Pre-Concrete Conference Is Mandatory, High and High-Early Strength Concrete, Sustainable Concrete Today, and Concrete Testing – New and Old Technology. The full day seminar was held at the Charleston Plaza Hotel, on a typical Charleston scenic spring day. Attendance consisted of; consulting Engineers, Ready Mix Concrete Engineers, representatives from the Precast industries, Cement manufactures, and associated industry professionals. Presentations were executed by; Scott Barbour, PE – Euclid Chemical, Chad Hensley, PE – Wayne Brothers Incorporated, William Phelan, PE – Euclid Chemical, and Kenneth Johnson, Jr – Soil Consultants Incorporated. All the presentations were well received and captured the attention of all who attended. A special thank you to all the presenters and attendees for their help in making this first seminar a memorable one.



**Pictured left to right: William Phelan, Chad Hensley, Scott Barbour**



## ACI Certifications – A Look Ahead

By David B. Scott

“The leadership at ACI Carolinas Chapter is mindful of the benefits these certifications provide you, and we will continue to diligently offer opportunities to provide these accreditations to you and your teams.”

One of the benefits of participating in an organization like the American Concrete Institute (ACI) International is the opportunity to obtain certifications. The certifications developed by ACI International are recognized around the world and include Field Grade Level 1, Flatwork Finishing, Adhesion Anchor, and many others. The certifications programs are carefully crafted by experts within the field respective of that certification. The certification programs will include study and demonstration of competency in three categories – general knowledge, working knowledge, and skill. Currently, ACI International, through Subcommittee 601F, is in the process of developing the first portion of a three-part certification on nondestructive evaluation of concrete. The first will be focused on the proper application of ground-penetrating radar (commonly called radar or GPR). This technique will instruct and certify on the proper use of GPR to locate and characterize steel embedded within concrete. Following the GPR certification will be a focus on NDE techniques which provide quantification of the strength of concrete using techniques such as pull off, pull out, Schmidt Hammer, etc. The final portion of this certification includes more advanced stress wave techniques such as impulse response, impact echo, ultrasonic pulse velocity, and shear-wave velocity. These three areas of certifications may be important to you and your company and provide valuable opportunity to expand your services. The leadership at the Carolinas Chapter are mindful of the benefits these certifications provide you and we will continue to diligently offer opportunities to provide these accreditations to you and your teams.

