

NEWSLETTER

INSIDIE THIS ISSUE:

President's Message	1
Member News & Upcoming Events	2-4
ACI CI Article	5-7
Sept. Meeting Notice	9

2011 GEORGIA CHAPTER OFFICERS:

President:

Steven Maloof
TEC Services, Inc.

Vice President:

George Harrison
ATC Associates, Inc.

Secretary:

"Sam" Morris, FACI
Certification/Accreditation Board
GA Chapter, ACI

Treasurer:

Ralph Hodgins
SIKA Corp.

Board of Directors:

Ann Miller
TEC Services, Inc.

Don Blair
Thomas Concrete of GA

Angela San Martin, P.E.
Tindal Corporation

Cecil Bentley
Consultant

Vance Robinson
Ready Mix USA

Chris Walker, LEED AP
Lafarge North America

Immediate Past President

Brent Bandy, P.E., LEED® AP
Walter P. Moore



Washington



Adams



Jefferson



Lincoln



Steven J. Maloof

PRESIDENT'S MESSAGE

How do we continue our chapter's success, and how do we know if we are improving our chapter? One of the ways we have always measured our chapter's success is by earning "ACI Chapter Points" through participation in our monthly lunch meetings and some of our special events like the Awards Banquet and Skipper Seminar. These points are definitely important for our Georgia Chapter to achieve ACI Excellent Chapter status. While I agree this is a goal we all should have, I also want our chapter and our meetings to be important and deemed valuable to our members.

What I believe to be the main avenue to quantify how we are doing is to hear from our members. We need feedback from you in order know that the direction of our chapter is being steered is the correct one. We need to hear likes and dislikes, and most importantly to hear suggestions on how to improve our chapter. This will ultimately increase attendance, and strengthen our chapter even more.

I encourage members to give us the feedback we need to make our chapter better. The feedback you provide could be a topic you would like to see presented, a location you would like to be included, or an industrial segment you would like to see better represented at our meetings. The board is currently working on several upcoming events, and the more we hear from the members, the better our chapter becomes.

Thank you,

Steven J. Maloof
Georgia Chapter ACI, President



UPCOMING EVENTS

Thursday, Sept. 8, 2011

ACI Field Tech Grade I Training

"New" GC&PA Headquarters**

Tucker, GA

12:30 pm – 4:30 pm



Saturday, Sept. 17, 2011

ACI Field Tech Grade I Certification Exam

TEC Services, Inc.

Lawrenceville, GA

7:45 am – 2:00 pm



Friday, Sept. 23, 2011

GA Chapter ACI "Breakfast" Meeting

"Performance Concrete—Creating Change in the Industry, Speaker:

Mark F. Chrzanowski, PE

w/ CH2M Hill, Gainesville, FL

J R's Log House Restaurant

6601 Peachtree Ind. Blvd.

Norcross, GA

7:30 am—9:30 am

Information & Registration at:

www.georgiachapteraci.org



Friday Sept. 23, 2011

ACI Aggregate / Lab / Strength Training

TEC Services, Inc.

Lawrenceville, GA

8:30 am – 5:00 pm



Thursday, Oct. 6, 2011

ACI Field Tech Grade I Training

"New" GC&PA Headquarters**

Tucker, GA

12:30 pm – 4:30 pm



Saturday, Oct. 15, 2011

ACI Field Tech Grade I Certification Exam

TEC Services, Inc.

Lawrenceville, GA

7:45 am – 2:00 pm



Saturday, Oct., 22 2011

ACI Aggregate / Lab / Strength

Certification Exam

TEC Services, Inc.

Lawrenceville, GA

7:45 am – 4:00 pm



Important Note: ACI Training & Exams are for Pre-registered Persons Only.

No walk up seating available

For Information go to:

www.cabofgeorgia.org

****New Training Location****

GC&PA Headquarters

2201 Moon Street

Tucker, GA 30085

770-621-9324



Member News

Georgia Chapter ACI Board Member gives birth!

We're happy to share the news that GA Chapter Board Member, Angela San Martin gave birth to a beautiful baby girl on August 29, 2011 at 12:48 pm. *Olivia Judith San Martin*, came into this world 2 weeks early at 7#'s, 6.3 oz. and 19.5" long, (Angela has a reputation for bringing projects in ahead of schedule?). Mother and baby are both healthy and doing very well.

"Sam" Morris says "This is definitely a first for the GA Chapter!" as she can not ever remember a sitting Board Member who had a baby. A few pictures, shared by the proud parents...



Concrete Construction Panel Discussion?

Over the summer GA Chapter Board Member, Cecil Bentley, put together a committee of volunteers to look at organizing a non-adversarial forum of Ready-Mix Industry Professionals to meet and discuss each other's role in specifying, producing, delivering, testing, placing, finishing and curing concrete.

The committee agreed on a mission statement: "To provide a non-adversarial forum for concrete ready-mix industry Stakeholders to come together for an open panel discussion in understanding each other's role in the process of specifying, producing, delivering, testing, placing, finishing and curing of concrete; all for the common good of the industry." With this mission statement in hand, they drafted a series of letters to be sent out to local industry professionals seeking, ideas, guidance and feedback on putting together such forum. A sample letter is reprinted on page 3. The committee is asking all GA Chapter Members to read the attached letter and consider offering their thoughts, suggestions and feedback.



Georgia Chapter ACI
2201 Moon Street
Tucker, GA 30085



Re: Request for Information and/or Participation
CONCRETE CONSTRUCTION PANEL DISCUSSION

Dear GA Chapter Member,

The Georgia Chapter ACI has created a committee to look at organizing a non-adversarial forum of Ready-Mix Industry Professionals to meet and discuss each other's role in specifying, producing, delivering, testing, placing, finishing and curing concrete. The committee is asking for your assistance, as a respected Concrete Industry Professional in Georgia, who might have some interest in participating and/or have some input for our committee, as we move forward with this endeavor.

As a committee, our initial thoughts are to bring together persons of interest; Owners (Developers/ Governmental/Institutional), Designers (Architects / Engineers), Ready-Mix Producers, Testing Agencies, General Contractors and Concrete Contractors to promote and participate in a concrete construction panel discussion. Panelist, one from each category, will be given an opportunity to comment on challenges each have in executing the necessary "construction scope of work" needed to produce a final product that meets the Owner's expectation. The panel moderator will facilitate a panel discussion and conclude with questions from the floor.

Panel Discussions would be held in Cities around the State, with sufficient interest in hosting such an event. The event would be held in a facility that would comfortably accommodate the number of registered attendees and take place over dinner. We would expect the cost to be such as being affordable and held at a time that would allow the maximum number of attendees.

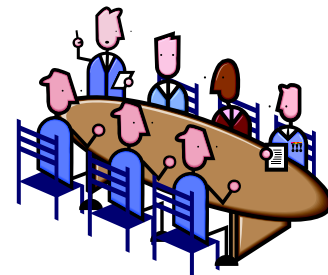
We are in the early planning stages and any help you can provide our committee with respect to identifying possible Stakeholders in your area would be appreciated. You may, even consider yourself as a candidate for a moderator/panelist or perhaps you might know of someone in your area of similar interests.

We hope, after due consideration, you will agree that this is a worthwhile effort and work with us in producing an event that will be of interest to all concerned, in Concrete Construction. Do not hesitate to contact anyone of the Committee members listed below for any questions you may have in regards to our proposal.

Respectfully,

A handwritten signature in black ink that reads "Cecil L. Bentley".

Cecil Bentley
Committee Chairman,
GA ACI Concrete Construction Panel Discussion Committee



Other Committee Members: *Vance Robinson, Chris Walker, George Harrison, Wayne Wilson*



ACI Greater Miami Valley Chapter Makes Plans for Fall Convention

October 16-20, 2011




On behalf of the ACI Greater Miami Valley Chapter, we would like to invite you to attend the ACI Fall 2011 Convention, October 16-20, 2011, in Cincinnati, Ohio. We are thrilled to have the opportunity to host this convention and we are looking forward to welcoming you to the Queen City—Cincinnati.

We are proud to call the state of Ohio and Cincinnati our home. Cincinnati is the site of the first reinforced high-rise building, the Ingalls Building, built in 1902. We have created a unique and educational program based on the convention theme “Bridging Theory and Practice.” Convention highlights include a technical tour of the Jeremiah Morrow Bridge, a tour of Paul Brown Stadium—home of the Cincinnati Bengals, a riverboat cruise on Monday evening, a Concrete Mixer at Cincinnati Museum Center at Union Terminal, a variety of technical sessions, networking opportunities, and a fantastic guest program with tours of the local area for all to enjoy.


We are sure you will find the ACI Fall 2011 Convention to be an excellent opportunity to contribute your expertise to the industry, a place to learn about the latest advances in concrete technology, and a place to develop relationships with the world’s leading concrete professionals. We look forward to seeing you all in Cincinnati, Ohio, October 16-20, 2011!

Daniel Dorfmueller
Chair, ACI Greater Miami Valley Chapter Convention Committee


Information and registration available on the web at: www.concrete.org



**Certification and Accreditation
Board of Georgia**



A Division of Georgia Chapter, ACI



The GA Chapter ACI's, Certification and Accreditation Board offers a training and exam program for ACI's Concrete Construction Special Inspector (CCSI) certification. We have seen a resurgence of the CCSI Program in recent years as more and more specifications have started requiring CCSI's for reinforced concrete placement. The following CI Article takes a look at the CCSI Certification Program...



This month in *Concrete International*....

Reprinted from the June 2011 issue of *Concrete International*

with permission from American Concrete Institute (www.concrete.org)



Why the Special Inspector Certification Program is “Special”

The program is gaining international recognition

by Luke M. Snell

The ACI Concrete Construction Special Inspector certification program was designed to provide the necessary link between design and construction. A Concrete Construction Special Inspector is defined as “a person qualified to inspect and record the results of concrete construction inspection based on codes and job specifications.”

The program covers inspection during preplacement, placement, and post-placement operations. To qualify for certification, knowledge of concrete construction is required, including plans reading, formwork installation and removal, reinforcements, embedments, sampling and testing freshly mixed concrete, conveying, placing, consolidation, finishing, jointing, curing, and protection.

REQUIREMENTS

This program is one of the most comprehensive programs currently offered by ACI. It takes a person through the current literature on concrete technology and then tests his or her ability to find answers to most of the technical problems that an inspector might face on a concrete construction site.

The technical resource materials used in these programs include the following ACI publications:

- Manual of Concrete Inspection, SP-2(07);
- ACI Concrete Terminology;
- “Specifications for Tolerances for Concrete Construction and Materials (ACI 117-10) and Commentary”;
- Guide for Structural Lightweight-Aggregate Concrete (ACI 213R-03)”;
- “Specifications for Structural Concrete (ACI 301-10)”;

- “Guide for Concrete Floor and Slab Construction (ACI 302.1R-04)”;
- “Guide for Measuring, Mixing, Transporting, and Placing Concrete (ACI 304R-00)”;
- “Placing Concrete by Pumping Methods (ACI 304.2R-96)”;
- “Guide to Hot Weather Concreting (ACI 305R-10)”;
- “Guide to Cold Weather Concreting (ACI 306R-10)”;
- “Guide to Curing Concrete (ACI 308R-01)”;
- “Guide for Consolidation of Concrete (ACI 309R-05)”;
- “Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary”;
- “Guide to Formwork for Concrete (ACI 347-04).”



Candidates for the ACI Concrete Construction Special Inspector certification program in Saudi Arabia

Other industry reference materials and standards used include ATSM C29, “Standard Test Method for Bulk Density (‘Unit Weight’) and Voids in Aggregate”; ASTM C94, “Standard Specification for Ready-Mixed Concrete”; ASTM E329, “Standard Specification for Agencies Engaged in Construction Inspection, Special Inspection, or Testing Materials Used in Construction”; *Manual of Standard Practice*, Concrete Reinforcing Steel Institute (CRSI); and *Design and Control of Concrete Mixtures*, Portland Cement Association (PCA).

CCSI continued on Page 6...

...CCSI continued from page 5

The educational and work requirements as spelled out on the ACI Web site at www.concrete.org/certification/cert_prog.asp must be met. Applicants must also pass a 3-hour open-book exam that covers the technical material and a 1-hour closed book exam on plans reading.

SAMPLE EXAM QUESTIONS

1. *The maximum size of aggregate used in structural concrete must not be more than:*

- A. One-fifth the narrowest dimension between sides of forms.
- B. One-third the depth of the slab.
- C. Three-fourths the minimum clear spacing between the reinforcing bars.
- D. All of the above.

Answer: D (ACI 318.3.3.2).

2. *The proper way to fix a rock pocket detected during concrete placement is to:*

- A. Shovel mortar on top of it.
- B. Shovel soft or very fluid concrete onto it.
- C. Shovel rocks from the rock pocket into the softer sanded area.
- D. Shovel mortar on top of it and revibrate the entire area.

Answer: C (ACI 304R, Fig. 5.3(d)).

3. *Which one of the following statements is false?*

- A. Concrete placed in hot weather develops higher early strengths.
- B. Concrete placed in hot weather has increased durability.
- C. Concrete placed in hot weather has generally lower strengths at 28 days or later.
- D. Concrete demands more water when placed in hot weather.

Answer: B (PCA, *Design and Control*, p. 234).

4. *What is the fineness modulus for a fine aggregate with the following gradation?*

Sieve Size	% Passing
No. 4	99
No. 8	82
No. 16	67
No. 30	39
No. 50	16
No. 100	2

- A. 3.05 B. 2.75 C. 2.60 D. 2.95

Answer: D (PCA, *Design and Control*, pp. 83-84).



Luke Snell teaching the training class for ACI Concrete Construction Special Inspector certification

TRAINING

Anyone can take the certification exam by studying the material on their own; however, from my experience, that's not advisable. The exam covers so much material that a person is much better off taking a class that covers the material in a digestible way. I, along with many others, have developed a training class that helps the students grasp this material in a classroom environment.

Some instructors hold their classes one night per week over an extended period of time. This is an excellent approach for those who can commit to the class without interruptions to their work schedules. Other instructors (myself included) run the class over 3 to 4 consecutive days. This immersion approach allows the students to concentrate just on concrete technology during that period of time. Homework assignments (refer to the sidebar) are given each night and students are encouraged to form study groups so they gain confidence in solving problems they might face on a concrete construction site.

The purpose of the training class is more than just helping the students get through the exam. It essentially becomes an educational program that takes the student through a review of the concrete technology concepts in an organized manner.

BENEFITS OF SPECIAL INSPECTOR CERTIFICATION

The ACI Concrete Construction Special Inspector certification is obviously geared to the field engineer and to those who are involved with the inspection process. As this certification program has gone international, it's being viewed in a different way. ...

CCSI continued on Page 7...

...CCSI continued from page 6

... Many countries don't have professional engineering registration, nor do they have detailed university courses in concrete technology. Thus, the Special Inspector training and the certification program function as a way for an engineer to become updated on concrete technology. Taking and passing the Special Inspector certification test indicates a basic understanding of concrete technology and how it can be applied to concrete construction.

According to Mohammed Al Nagadi, President of the Saudi Building Code National Committee and President of the ACI Saudi Arabia Chapter, the ACI Concrete Construction Special Inspector certification program has introduced the concept that engineers must have more than a bachelor's degree in engineering. They also must have both documented work experience and be able to show their competence by passing an engineering-based exam.

This is especially needed in a place like Saudi Arabia. With its construction boom, there are engineers coming to Saudi Arabia from all over the world. By having these engineers participate in the ACI Concrete Construction Special Inspector certification program, the Saudi Arabian construction community can have more confidence in the technical competence of these engineers and their understanding of

good construction practices and concrete technologies. Many of the construction companies in Saudi Arabia require that the personnel in their quality control departments take the Special Inspector course and complete the entire requirement for this certification.

The U.S. building code requires that concrete be tested by a Field Grade I Technician (ACI certification or an equivalent certification). As technicians become more experienced and ready to assume more responsibilities, certification as an ACI Concrete Construction Special Inspector documents that they have the work experience and knowledge for the additional responsibilities. It can also be an excellent educational program for those who work in quality control/quality assurance or who are working as field engineers.

Several Concrete Construction Special Inspector certification classes and exams are given worldwide. To locate one that fits your schedule and needs, visit the ACI certification Web site at:

www.concrete.org/CERTIFICATION/cert.asp.



About the Author



Luke M. Snell, FACI, is a Senior Construction Materials Engineer with Western Technologies, Phoenix, AZ. He has done extensive consulting work on construction and concrete problems throughout the U.S., Saudi Arabia, Mongolia, and Algeria. He is the Chair of the ACI International Committee and past Chair of ACI Committee 120, History of Concrete. He is a member of several ACI committees, including the Young Member Award for Professional Achievement; the Board Advisory Committee on ISO TC-71; the Chapter Activities Committee; 214, Evaluation of Results of Tests Used to Determine the Strength of Concrete; E702, Designing Concrete Structures; S801, Student Activities; and S802, Teaching Methods and Educational Materials.

He is a member of several ACI committees, including the Young Member Award for Professional Achievement; the Board Advisory Committee on ISO TC-71; the Chapter Activities Committee; 214, Evaluation of Results of Tests Used to Determine the Strength of Concrete; E702, Designing Concrete Structures; S801, Student Activities; and S802, Teaching Methods and Educational Materials.



SAMPLE HOMEWORK PROBLEMS

1. *If you are designing a concrete mixture with design strength of 4000 psi and the standard deviation is 483 psi, what is the required average compressive strength?*

Answer: 4647 psi (ACI 318, Table 5.3.2.1).

2. *What four values must be known to calculate the evaporation rate and to determine if plastic shrinkage cracking is likely to occur?*

Answer: Air temperature, relative humidity, concrete temperature, and wind velocity (ACI 308, Fig. 4.1).

3. *We have a 1-hour delivery time for an open dump body truck that is delivering concrete to our job site. The required concrete temperature on the job site is 50°F and the air temperature is 25°F. What is the required concrete temperature at the batch plant?*

Answer: 55°F (ACI 306.3.8).

4. *What is a dropchute?*

Answer: A device used to confine or direct the flow of a falling stream of fresh concrete (ACI Concrete Terminology).

Interested in becoming a GA Chapter ACI Member?

Apply on-line at: georgiachapteraci.org
or complete the following and mail

2011-12 MEMBERSHIP APPLICATION

Name:	
Title:	
Company:	
Address:	
City: State: Zip:	
Office Phone:	
Office Fax:	
Home Phone:	
Email address:	

Professional Category: (Check one)

- Architect
 Contractor
 Engineer
 Affiliate
 Student

School Name:

Other:

ACI International Member: Yes / No; date joined:

Please list any National Committee Memberships:

Please complete application and mail with your check to :

Georgia Chapter, ACI
2201 Moon Street
Tucker, GA 30085

Annual Member Dues: \$40.00; Students: \$15.00

Georgia Chapter ACI



Newsletter

Published Monthly
 January - May
 Summer Issue
 September - December

Editor: Wayne Wilson



Comments?

Contact the editor at:
 wayne.wilson@holcim.com

Georgia Chapter Offices:
 2201 Moon Street
 Tucker, Georgia 30085
 (770) 621-9324
 FAX: 770-621-9380
 www.georgiachapteraci.org



**GA CHAPTER ACI
 MAY MEETING NOTICE**

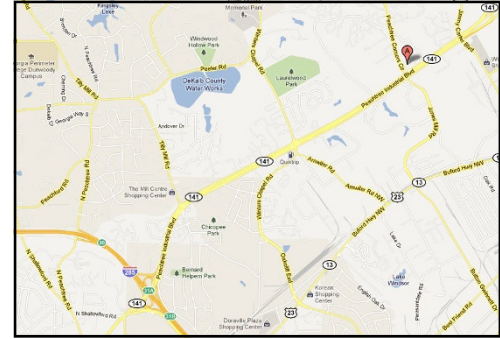


LOOK Breakfast Meeting! LOOK

Date: **Friday, September 23, 2011**

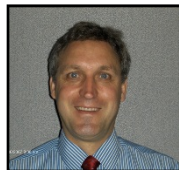
Time: **Registration — 7:30 am
 Breakfast—8:00 am**

Location: **J. R.'s Log House Restaurant
 6601 Peachtree Industrial Blvd.
 Norcross, Georgia 30093**



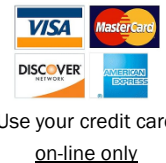
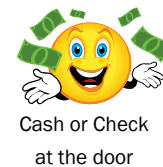
Program: **Performance Concrete –
 Creating Change in the Industry**

Speaker: **Mark F. Chrzanowski PE**



Mark is an Operations Leader in CH2M HILL's Gainesville, FL Office. He actively participates in project designs as a Lead Engineer, QC Reviewer, Structural Consultant, and global resource in concrete technology to the various Enterprises in CH2M HILL; Technical Specification Coordinator for multiple Sections of Division 3 of CH2M HILL's Master Specifications; Served as an expert consultant in concrete materials to the Panama Canal Authority (ACP). ACP is currently undertaking an expansion to the canal that will use an estimated 5.8 million cubic yards of concrete materials; serves as an expert consultant in concrete materials to the Strategic Tunnel Programme in Abu Dhabi. He is a member of ACI 130 (Sustainability of Concrete) Main Committee and Co-Chairman of Subcommittee ACI 130E, member of ACI 301 (Specifications for Structural Concrete) Main Committee and Subcommittee ACI 301C, and Founding Chairman of ACI 329 (Performance Criteria for Ready Mixed Concrete).

Price: **\$25.00 Pre-registered
 \$30.00 Walk-ins & No-shows
 \$10.00 Students**



RSVP: Register on line at: georgiachapteraci.org



or call: "Sam" Morris @ 770-455-7274 or Diane Dial @ 770-621-9324
 or e-mail: "Sam" Morris @ SammieLFM@aol.com or Diane Dial @ ddial@mail.gcpa.org

*** Please RSVP by WEDNESDAY, September 21, 2011 ***

Please note: If you are not receiving the ACI Newsletter via e-mail, please call or e-mail either "Sam" or Diane with your new address. They both share the list and we do not want you to miss out on anything.