



NEWSLETTER

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2006 BOARD OF DIRECTORS:

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- Matthew Singel, P.E., Southeast Cement Association
- Pete Tatnall, Performance Concrete Technologies
- Kem Magnant, Georgia Concrete & Pro-ducts Association
- Kirk Deadrick, Lafarge—NA
- Scott Palotta, APAC, Inc.

PRESIDENT'S MEMO

Another month has come and gone in what seems the blink of an eye. They say that time flies when you're having fun. Must be true. Both conditions exist at the GA ACI.

March was a busy month and April promises to be busy as well. We have another ACI convention under our belts and plans are moving ahead for the Spring 2007 "Big Splash" here in Atlanta. We will be promoting this event in a big way at the Denver convention this fall. Plans are also under-way for two GA ACI fundraising events, the spring (May) and fall (Nov) golf tournaments. We will be conducting our first Concrete Inspector Training and Certification program in May followed by our annual Skipper seminar to be held in June. Just to mention a few of our activities.

But the big news is that we are hoping to hold at least 2 summer luncheon meetings outside of the metro Atlanta area this year. Two of our previous Atlanta luncheon speakers have tentatively agreed to make presentations at the summer meetings. Tentative plans are for meetings in Tifton on July 28th and Augusta on August.25th. We are the "Georgia" Chapter, ACI and we want our members (and potential members) outside of metro Atlanta to know that they are important to us. We want and need them to be more involved in the chapter and enjoy the benefits of membership. And perhaps in the future we will have representation on the Board of Directors from these areas. Would that be great or what?

But none of this would be happening if not for the efforts of Kem Magnant who has graciously accepted the task and who has made great strides in bringing it closer to a reality. Kem brings to the table the same energy and vitality that she has exhibited as the Awards Committee Chair. Thank you Kem. Your efforts are appreciated.

Anyone who is interested in being part of the Summer Meetings Committee can do so by contacting Kem or me. With your help we will always be an "Excellent" ACI chapter.

Thanks,

Nick Maloof, FACI

April Program

"Effects of Lithium Nitrate Admixture on Early Age Concrete Properties"

This research investigates the effects of lithium nitrate admixture on cement hydration and early age concrete properties, including setting time, workability, shrinkage, and early strength gain. Effects of varying dosages of lithium nitrate are observed in cements of varying alkali and tri-calcium aluminate contents, as well as in one cement with and without 20% Class F fly ash replacement.

Mr. Millard is studying structural engineering as a graduate student in the Civil and Environmental Engineering Department at Georgia Tech.

Speaker: Mr. Marcus Millard (See page 4 for registration to the luncheon).

Don't Miss This! Register Today!

UPCOMING EVENTS

ACI Level I Field Tech Exam
April 22, 2006—8:00 a.m.
Ready Mix USA (formally RMC)
Decatur, Georgia

ACI Georgia Chapter Luncheon
April 28, 2006—12:15 p.m.
Sheraton Buckhead Hotel
Atlanta, Georgia

American Concrete Institute
April 26, 2006
Atlanta, Georgia
"Concrete Slabs on Ground"
For information:
www.concreteseminars.com

April 30 –May 3, 2006. Register online at: www.asce.org/conferences/pavements2006.
ASCE Airfield & Highway Pavement Specialty Conference, Westin Airport Hotel, Atlanta, GA
May 15,16,& 17 See Page 3

ACI Georgia Chapter Luncheon
May 19, 2006—12:15 p.m.
Sheraton Buckhead Hotel
Atlanta, Georgia

ACI Field Tech Level I Exam
May 20, 2006—8:00 a.m.
Heidelberg Lab (formally Lehigh)
Doraville, Georgia

American Concrete Institute
May 24, 2006
Atlanta, Georgia
"Design, Build, and Maintain Concrete Parking Structures"
www.concreteseminars.com

June 27, 2006— 8:00 a/1:30p
V. D. Skipper Seminar
Georgia Freight Depot-Blue Room
#1 Martin Luther King Drive
Atlanta, Georgia

MARCH CHAPTER MEETING


We had over fifty in attendance to hear a presentation by Tim Cost, PE, Sr. Technical Service Engineer for Holcim, Inc. on "Understanding & Avoiding Concrete Material Incompatibilities". He began by elaborating on what is meant by "incompatibilities". They include: setting & strength gain abnormalities, air void system issues, early age cracking and other durability issues. These undesirable occurrences are usually a local manifestation when ambient temperatures are higher than normal, Class C Fly Ash is used excessively, the admix dosage is higher than typical, attempts at retardation with blends of A/B/D products and material source changes. The principal influences are high temperatures, Class C fly ash and admix blends.

Tim said the sulfates in the materials could reveal the causes of abnormalities. The sulfate [SO₃] content of cements is variable, too much is not desirable, and therefore production limits are set. ASTM C 563 is the test method to optimize sulfates in cement. Class C fly ash is known to be high in sulfates and is a source of imbalance. Admixtures influence sulfate effectiveness so they are another variable. Still another is temperature [heat], which influences the solubility of sulfates. Solubility is lower as the temperature increases. He related a case history of a project where one day strengths suddenly fell 65%, set times increased and excess cracking occurred. The problem "went away" after ten days, but it was seriously investigated. A calorimetric diagnosis of the specific cements was conducted to determine the "sensitivity" of variables. It was caused by a sulfate imbalance.

The study of the historical case revealed that five factors should be considered in the event of abnormal occurrences: 1) Only a slight variation of a single influential material can solve the problem; 2) Extreme cases require an adjustment of more than one variable; 3) More sulfates in cement is not always the solution; 4) Corn syrup based water reducing admix are problematic; 5) High doses of A/B/D water reducers are problematic.

ACI SPRING CONVENTION

Almost 1400 people attended the Charlotte convention. It seemed to me that they were ALL at the Mixer event on Tuesday night! That was one of the best Mixers in recent years. We had a record 30 Chapter members attending as follows: **Rod Adams, Gene Boeke, Jo Coke, John Cook, Mike Cook, Joe DeFrancisco, Kirk Dadrack, Peter Finson, Kevin Foody, Mel Galinat, Harry Gleich, Dan Green, Ken Harmon, Jerry Holland, Bob Jenkins, Larry Kahn, Gary Knight, Kim Kurtis, Ralf Leistikow, Sam Morris, Ken Rear, Matt Singel, Jeff Smith, Barendra Talukdar, Roger Tate, Pete Tatnall, Lori Tiefenthaler, Chris Walker and Wayne Wilson.**


WELCOME NEW MEMBERS

 Please join us in welcoming the following new members to our Chapter.

 JOHN BARES	 JASON BALL	 JOHN BUNYA
 Southern EliteCrete	 QORE Property	 Georgia Tech

 ADRIAN BARNES	 J. MICHAEL HOLMES
 H & S Concrete Co	 PSI



ACI CONCRETE INSPECTOR TRAINING AND EXAM—May 15, 16, 17th. - GC&PA Headquarters 100 Crescent Centre Parkway, Lake Level Conference Room, Tucker, GA

A 2-1/2 day training session, followed by the exam for ACI Concrete Inspector will be held on May 15, 16, and 17. Cost of training and exam, inclusive of lunch all three days, Study materials, and exam. This will be a three hour open book exam. Cost: \$925.00.

More information, registration information, schedule, directions, maps, etc. will be forthcoming on this NEW (for us) certification within the next week or so. "Sam" Morris, ACI Certification



2006 MEMBERSHIP APPLICATION

Name: _____

Company: _____

Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Office Phone: _____

Office Fax: _____

Home Phone: _____

Email address: _____

Professional Category: (Check one)

- Architect
- Contractor
- Engineer
- Student - Name of School: _____
- Affiliate
- Other: _____

Are you an ACI International Member: Yes No

If yes, date joined National: _____

If yes, Committee Membership: _____

Sponsored By: _____ Date Joined: _____

NEW MEMBER DUES RENEWAL

Annual Dues
\$40.00

Please complete application and mail with your \$40 check to :

Georgia Chapter, ACI
100 Crescent Centre Parkway, Suite 110
Tucker, GA 30084
(770) 621-9324
FAX: 770-621-9380



Georgia Chapter ACI
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Editor: Mel Galinat

Comments? Contact Mel at
mgalinat@mindspring.com

Georgia Chapter Offices:
100 Crescent Centre
Parkway - Suite 110
Tucker, Georgia 30084
(770) 621-9324
FAX: 770-621-9380
www.georgiachapteraci.org

MARCH MEETING NOTICE

Date: *Friday, April 28, 2006*

Time: *Registration 12:00 p.m. - 12:15 p.m.—Luncheon*

You May Register On-Line:
www.georgiachapteraci.org

Location: *Sheraton Buckhead Hotel*
Check Reader Board for Room Location
Atlanta, Georgia

Speaker: Marcus Millard, Graduate Research Assistant
Civil & Environmental Engineering,
Georgia Institute of Technology

Program: *“Effects of Lithium Nitrate Admixture on Early Age Concrete Properties”*

1 PDH Awarded

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

RSVP: To RSVP, please call “Sam” 770. 455.7274 or email me at
SammieLFM@aol.com BEFORE 4:30 pm on WEDNESDAY,
April 26, 2006

Note: *If you fail to call in prior to the deadline, or you do not show for the luncheon, you will be charged \$30.00.*

We're on the web!
www.georgiachapteraci.org