



NEWSLETTER

PRESIDENT'S MEMO

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2006 BOARD OF DIRECTORS:

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- Pete Tatnall, Performance Concrete Technologies
- Kem Magnant, Georgia Concrete & Products Association
- Kirk Deadrick, Lafarge—NA
- Scott Palotta, APAC, Inc.

Once again it is near time for our annual skipper seminar. It will be presented on June 27, 2006.

The theme of this seminar covers a range of products and promises to be informative and interesting. It is amazing how much and how fast the technology has changed and new processes are being developed to perform tasks far more easily and efficiently than in past years.

I remember, and so do many of my colleagues even though they may not want to admit it, when **Decorative and Architectural Concrete** was a nightmare for the ready mix producer. Bags of colors had to be dumped into the mixer truck by hand. What a mess. And variations in color agents as well as the concrete were normally pretty common. Now it is high tech with liquid color dispensers and decorative finishes that will knock your socks off. And the quality/consistency is on the money.

Pervious Concrete was once an exotic creature but is becoming rather common. Jobs are being specified for use of pervious at a faster rate than we can certify pervious craftsmen to ensure successful placements and satisfied customers. Environmental issues will make pervious concrete more popular in the coming years.

SCC (Self-Consolidating Concrete) is, in my mind, one of the most exciting advances in our industry in recent years. This product promises to do more to advance the use of concrete than any other in recent times. I believe that SCC has gained more interest from more people, trades, associations, engineers, architects, contractors, researchers and government agencies, than any other product we have developed in recent years and that SCC is the concrete of the future, both with normal weight and lightweight usages.

On June 27 you can hear all about it. Attend the 2006 Skipper seminar and I am sure that the interesting topics and knowledgeable speakers will make it worth your while. And you will be supporting the Georgia Chapter, ACI and the concrete industry in the process. Keep an eye open for the registration forms that will be mailed soon.

Thanks,

Nick Maloof, FACI

SENIOR CITIZEN DISCOUNT— Members who are 65 years of age and have 25 years with the Chapter will be eligible for one-half price dues. This was approved by the Board at the April 28, 2006 meeting. So, if you qualify, when you receive your notice for next year, remember to only pay \$20.00

UPCOMING EVENTS

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
 "Design, Build, and Maintain Concrete Parking Structures"
 Doubletree Hotel Atlanta Buckhead
 3342 Peachtree Road, N. E.
 www.concreteseminars.com

June 14, 2006
 American Concrete Institute
 ACI 318-05 The Structural Concrete Standard
 Sheraton Buckhead Hotel
 3405 Lenox Rd., Atlanta, GA
 222.concreteseminars.com

June 16, 2006
 ACI Spring Golf Tournament
 Gold Creek Golf Course
 Jasper, Georgia
 Watch for information on the web and in the mail.

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

APRIL CHAPTER MEETING

We had about forty in attendance to hear a presentation by Marcus Millard, a Graduate student at Georgia Tech on "The Effects of Lithium Nitrate Admixtures on Early Age Concrete Properties". Marcus was one of four that participated in the research program at the Civil and Environmental Engineering Department at Tech. The others were Dr. Kimberly Kurtis, a Chapter member, Viswanath Dokka of Accura Engineering & Consulting Services and Richard Boudreau of Boudreau Engineering. The investigation was prompted by the use of the admixture at the Hartsfield Jackso Airport Project where the contractors had no previous experience with it. The study focused on the early age concrete properties such as, cement hydration, plastic properties, shrinkage and strengt development.

Marcus began by addressing the problems associated with alkali silica reactions [ASR] ir concrete, particularly in airport pavements, and the role of lithium nitrate in controlling ASR. A large number of concrete mixtures were studied using portland cements that varied in alkali and C₃A content. In addition, a 20% Class F Flyash mixture was included since this was the primary m design used on the Airport Project. The optimum admixture dosage recommended by the manufa ture is calculated by using the formula: (lbs of cement) x (%Na₂O_e/100) x (0.55 gallons of admix). The typical fluid dose used in the study was ~ 1.3 gallons per cubic yard of concrete. Water adjus ments were made in order to maintain a w/c ratio of 0.30. Hydration was measured by Isotherma Calorimetry and it was noted that the admix had a synergistic effect with Class F fly ash. Effects o slump, compressive strength, autogenous, restrained and free shrinkage were also reported.

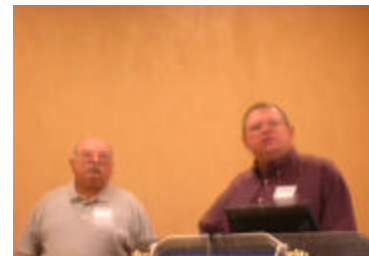
In summary, the admix accelerates the early hydration of the portland cement, particu- larly the C₃A reaction and the fly ash ameliorates this effect. The admix shortens setting times, bu only with the lowest alkali cements. Higher than recommended doses generally have negative effects along with higher autogenous shrinkage. Chapter members Kurtis and Walker have the complete report for those wishing additional details of this project .



Marcus Millard, Speaker



Nick Maloof, President



Nick Wayne Wilson— VP

WELCOME NEW MEMBERS

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

Russell Cussell	Laurel P. Chung	Scott Dabbs	Arlando Eatmon
Piedmont Geotech	GeoHydro Engineering	Building & Earth	Piedmont Geotech
David MacKay	Zach Marcott	Tony Stillwell	Derald Williams
Capstone Civil Group	NOVA Engineers	Piedmont Geotech	Piedmont Geotech

OPPS! And just when you think that you are danged 'nie perfect, you leave off one of the members who attended the ACI Spring Convention in Charlotte. Frank Lennox, Buzzi Unicem USA, was indeed present. Please accept our apologies for not putting you on the list Frank. We really did break the record—that puts us at 31 in attendance.

The Editor



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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MARCH MEETING NOTICE

Date: **Friday, May 19, 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: **Darren Fouts
Hardscapes USA—Block USA
Hardscapes and Engineered Products Manager**

Program: **“Segmental Retaining Walls”
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 12:00 Noon on WEDNESDAY,
May 17, 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