



NEWSLETTER

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2004 BOARD OF DIRECTORS:

- President:
Mel Galinat, Consultant
- Vice President:
Jami Taylor, Lafarge, NA
- Secretary/Treasurer:
"Sam" Morris, Georgia Concrete & Products Association
- Directors:
- Jay Howard, Lehigh Cement Company
 - Gary Knight, Holcim (US) Inc.
 - Frank Lennox, Buzzi Unicem
 - Nick Maloof, Thomas Concrete Industries
 - Wayne Wilson, Holcim (US) Inc.
 - Joe Wolfe, W. R. Grace & Company

PRESIDENT'S MEMO

All current members should have their 2004 Directory in hand by now. This is the largest version we have ever had and has many features. We hope you will take time to peruse it. We wanted to save postage by mailing it with the April Newsletter. This explains the tardiness of the Newsletter last month. With almost 400 names, the Directory is a good source of networking in the Industry. Use it! As the long-time Editor, we are dismayed at the lack of communication or feedback from the membership. It probably reflects the lack of provocative issues contained therein. How about the issue of "advertising" that would fund greater content and size? Some Chapters have elected this option; however that defines the Newsletter as a "profit" center and requires elaborate record keeping for IRS reporting. Any volunteers for this effort? With the convenience of emailing, we solicit your input, suggestions, comments or short technical articles. The four-page format defines the space and the insertion of photos further limits the technical content.

At the April Board meeting a theme was proposed for the 2007 Spring Convention in Atlanta. How about "Hardscape in Georgia"? We had six entries in the Hardscape Category in last year's Awards competition and that was the THIRD year for that Category! Looks like we have a theme. If no Chapter chooses this theme in the intervening years [we better keep this confidential], we have a unique and viable focus on concrete applications in Georgia. In the upcoming Awards competitions we can build a reserve of Hardscape projects that would be highlighted at the Convention to support the theme. Remember, "progress through knowledge".

Mel Galinat
2004 Chapter President

April Chapter Program

UPCOMING EVENTS

ACI Seminar, Basics of Concrete Materials and Testing
 May 20, 2004
 Sheraton Buckhead Hotel
 Atlanta, Georgia
CANCELLED - Due to lack of participation

ACI Chapter Luncheon Meeting
 May 28, 2004
 Sheraton Buckhead Hotel
 Atlanta, Georgia

ACI Skipper Seminar
 June 11, 2004
 Freight Depot - Blue Room
 Information To Follow

ACI Golf Tournament
 Fall 2004
 Location and Time to be Announced

There were almost forty in attendance for a technical program by Lee Holland, Product Specialist Manager for Grace Construction Products in Jacksonville, FL. Lee's presentation covered both Shrinkage Reduction Admixtures [SRA] and Macro-Synthetic Fibers. He stated that the principal cause of non-structural concrete cracking is "shrinkage", which is driven by volume change due to water loss. Lee showed that typical drying shrinkage ranges from 0.04 to 0.10 percent and nominally is 0.08 percent or approximately one inch in 100 feet. He stated that concrete is porous and analogous to a sponge drying out. In this context SRA's influence the behavior of the pore water in hardened concrete. They reduce the surface tension in the pore water and thereby reduce the stresses, which manifests itself in reduced shrinkage. Lee showed shrinkage data curves from ASTM C 157 testing. The reference concrete shrunk .060% at 200 days while the SRA specimens shrunk .045% and .038% at one and two percent addition rates respectively. He had photos of concrete planks with and without SRA where the distinction was evident that the treated concrete was almost flat whereas the untreated one bowed considerably from curling. SRA's are recommended for radiation containment and water treatment structures, for increases in joint spacing and thin overlays.

The benefits of SRA's are a possible 50% reduction in drying shrinkage, reduced heat of hydration, no curing requirement and improved finishability. It is cautioned that SRA's may reduce strength, require additional air entrainment, retard setting time and have NO effect on plastic shrinkage.

Lee encouraged the use of micro fibers to overcome plastic shrinkage of concrete and acknowledged that little or no residual toughness is provided by micro fibers in the hardened state. He introduced macro-synthetic fibers with the potential to reduce plastic shrinkage as well as adding residual toughness to hardened concrete. He said that additions of 3 to 9 pounds per cubic yard of the "macro" fibers compete with steel fibers in toughness and offer the control of plastic shrinkage that steel fibers can not provide. Lee showed graphs of a plastic shrinkage test where cracking was reduced by 75% over control with both 3 pounds of macro and 0.5 pounds of micro fibers. He promoted macro fibers as an alternative for wire fabric and rebars as reinforcement in all applications that are non-structural and summarized the benefits of fibrous concrete over plain reinforced concrete in issues of worker safety, better crack control, improved quality of concrete and plastic shrinkage reduction.

(Left to Right: Mr. Lee Holland, W.R. Grace and Mr. Jami Taylor, VP-ACI Georgia Chapter.)



NEW MEMBERS

Please help us welcome the following new chapter members:

Mr. Daniel Toon
 United Forming, Inc.

Mr. Allen Ledbetter
 Superior Construction Co., Inc.

Mr. David B. Vincent
 Superior Construction Co., Inc.



2004 MEMBERSHIP APPLICATION

Name: _____

Company: _____

Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Office Phone: _____

Office Fax: _____

Home Phone: _____

E-mail address: _____

**Annual
Dues:
\$25.00**

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

NEWS OF MEMBERS

Roy Keck has an article published in the March/April issue of *The Georgia Contractor* entitled, "Concrete – The Building Material That Contractors Created". Also Toby Branson had an article entitled, "Airport Pavement Design Training." in the Special Advertising Supplement issue of *Count on Concrete Pavement magazine*. Check these out if you have the opportunity.

MEMBERS WANTED.....

Members! We need more members. One of the sections on the Annual Report covers points for membership. We did not lose any points for last year but we did not gain any. Ask your friends and fellow workers to join. We need to gain members this

Please complete application and mail with your \$25 check to :

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

You may use this form to sign up a new member!



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Newsletter**

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

MAY MEETING

- SPEAKERS:** **MR. ANTON K. SCHINDLER, PH.D., AUBURN UNIVERSITY
ASSISTANT PROFESSOR OF CIVIL ENGINEERING**
- PROGRAM:** **"EARLY-AGE STRENGTH ASSESSMENT OF CONCRETE
STRUCTURES"**
- DATE:** *May 28, 2004*
- TIME:** *11:45 a.m.—Registration
12:15 p.m.—Luncheon*
- LOCATION:** *Sheraton Buckhead Hotel , (See Reader Board)
Atlanta, Georgia*
- PRICE:** *\$25.00 - Pre-registered
\$10.00 - Students
\$30.00 - Walk-ins and No-shows*
- RSVP:** **To RSVP, please call "Sam" or Bebe at
(770) 621-9324 BEFORE 4:30 pm on
WEDNESDAY, May 26, 2004.**
- PLEASE NOTE:** *If you fail to call in prior to the deadline, or do not
show for the luncheon, you will be charged \$30.00.*