



# NEWSLETTER

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## 2005 BOARD OF DIRECTORS:

### President:

Jami Taylor, Lafarge—NA

### Vice President:

Nick Maloof, Thomas Concrete

### Secretary/Treasurer:

"Sam" Morris, Georgia Concrete & Products Association

### Directors:

- Gary Knight, Holcim (US) Inc.
- Frank Lennox, Buzzi Unicem USA
- Wayne Wilson, Holcim (US) Inc.
- Pete Tatnall, Performance Concrete Technologies
- Kem Magnant, Pavestone
- Matthew Singel, P.E., Southeast Cement Association

## PRESIDENT'S MEMO

March was an eventful month with our very own Sam Morris suffering a setback. Sam experienced a heart attack on March 19. She underwent triple-bypass and valve repair. The good news is she is now at home and doing well. Please keep her in your prayers and thoughts as she recovers. We appreciate all that she does for ACI and the concrete industry. We miss you, Sam. You may send her cards or letters at the following address: 3323 Stonecrest Court, Atlanta, GA 30341.

This month the ACI 2005 Spring Convention will be held in New York City. Many of our local chapter members will be attending. This is significant since our Chapter will be receiving the 2004 Excellent Chapter Award. There are only 11 others receiving this award in the world. We will receive yet another banner that we can proudly hang with all the others. Thanks to all of our chapter members. It is because of you that we are able to receive this recognition year after year.

Also I would like to announce that Wayne Wilson will be taking over Student Affairs within our Chapter. He will be succeeding Tobias Branson who has served well in this capacity and we are all grateful for his past efforts.

Also just a reminder—please get your membership renewals in the chapter office with any changes you may have. This information will be used to update our Chapter membership directory. Remember membership is the foundation of our Chapter's success, so if you have colleagues who would benefit from membership, get them signed up!

This month's luncheon should be quite interesting. Steven Maloof is going to give us a "virtual tour of a lightweight aggregate plant." It will be just like being there. So don't forget to sign up.

Due to Sam's illness, our March newsletter was never mailed out to you, but you will receive it along with this April issue. Thanks so much for your patience and we will see you on April 29<sup>th</sup>.

Jami M. Taylor—Lafarge NA

## NEWS OF MEMBERS

There have been some changes at the Georgia Concrete and Products Association recently. Long time Chapter member and former president Roy Keck resigned his office of Association President to take the position of Design Manager at Lafarge NA in Alpharetta, Georgia. New Chapter member H. Gordon Kenna, Principal of Resource Communications Consultants in Atlanta, has been appointed Interim Executive Director in Roy's place.

## MARCH CHAPTER MEETING

We had about forty in attendance to hear a presentation titled, **Cement and Cementitious Materials and How They Work Together** by Chapter Board member, Wayne Wilson, P.E., Technical Service Engineer for Holcim (US) Inc. Wayne's program covered cementitious materials, Portland cement, slag cement and pozzolans. Portland cement is the most common and is governed by prescriptive specification ASTM C 150 and performance specification ASTM C 1157. The chemistry of Portland cement is a blend of lime (CaO), iron (Fe<sub>2</sub>O<sub>3</sub>), silica (SiO<sub>2</sub>) and alumina (Al<sub>2</sub>O<sub>3</sub>) and it is 75 to 90% lime. The raw materials for the manufacture vary geographically from plant to plant, but basically stone is quarried, crushed and ground before it is heated to 3200° F. in a rotary kiln where calcination takes place. Calcination occurs at elevated temperatures when calcium carbonate breaks down into lime and carbon dioxide. The output of the kiln is known as "clinker" and is further ground in ball mills with additions of gypsum to control the set of this powder called Portland cement.

## UPCOMING EVENTS

### ACI International Spring Convention

April 17–21, 2005

New York Hilton  
New York, New York

### ACI International Seismic Design of Liquid-Containing Structures

April 27, 2005

Sheraton Buckhead Hotel  
Atlanta, Georgia

### ACI May Meeting

May 20, 2005

Sheraton Buckhead Hotel  
Atlanta, Georgia

### V. D. Skipper Seminar

Thursday, June 16, 2005

Blue Room—Georgia Freight Depot  
Atlanta, Georgia

### ACI International Concrete Repair Basics Seminar

May 25, 2005

Sheraton Buckhead Hotel  
Atlanta, Georgia

Slag cement is governed by ASTM C 989, which recognizes Grades 80, 100 and 120. The grades relate to performance as a percentage of a reference Type I Portland cement. This cementitious material comes from the slag portion of molten iron production in a blast furnace. The molten slag is quenched by a high-pressure water spray, which produces a glassy sand-like material that is subsequently dried and ground into a finished cementitious product. Pozzolanic material is governed by ASTM C 618 into Classes F, C, and N. Class N is a naturally occurring product, while Classes F and C relate to products recovered from coal fly ash in electricity generating plants.

Wayne covered the similarities and differences of the materials on the basis of chemistry, physical and performance characteristics. Many of us are familiar with Portland cement and fly ash; however, the slag cement came out looking pretty good in the comparisons.

## ACI INTERNATIONAL SEMINAR ON “SEISMIC DESIGN OF LIQUID-CONTAINING STRUCTURES” SCHEDULED FOR APRIL 27 IN ATLANTA

A one-day technical seminar covering code requirements for seismic design of liquid-containing concrete structures is scheduled for April 27 at the Sheraton Buckhead Hotel in Atlanta. The program will cover basic theory, tank configurations, design loads, earthquake pressure, site-specific response, stresses/earth pressures and design examples.

To register for this seminar, please contact Joyce Jackson, ACI International's Seminar Coordinator, at (248) 848-3707.

# VIRGIL D. SKIPPER SEMINAR—STATE OF THE ART IN DISCONTINUOUSLY TENSILE REINFORCED CONCRETE

This year's memorial seminar will be held on Thursday, June 16 at the usual location (the Blue Room) at the Georgia Railroad Depot near Underground Atlanta. The title will be "State of the Art in Discontinuously Tensile Reinforced Concrete". The long title is to mask the fact the content is about reinforcing fibers because fibers get no respect in the industry. We also want to make the case that fibers ARE tensile reinforcement and disseminate the state of the art that confirms this. The program has four of the most competent speakers in fibrous concrete technology, the first of which will relate his two year experience of research and testing to obtain code acceptance of fiber reinforced concrete residential wall systems wherein fibers replaced rebar. Our second speaker was instrumental in launching the new era of "structural" fiber while employed by 3M and will relate his current experience with high volumes of synthetic fibers to extend joint spacing and reduce slab curling. The third speaker is a current Chapter Board member who has traveled internationally directing the applications of fiber reinforcement in underground construction. Finally, our fourth speaker is one of the top researchers in the world in fibrous concrete and will be coming to Atlanta from Sydney, Australia to reveal the latest in his laboratory investigations.

This seminar will be precedent setting in that we will professionally videotape the proceedings. Each attendee will receive a free DVD of the seminar and three PDHs if desired. Registration pamphlets will be mailed separately. Registration can be accomplished on-line as well. Additional information will be contained in the May Newsletter. Makes plans now to be there.

## 2005 MEMBERSHIP APPLICATION

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

**Annual  
Dues  
\$25.00**

*You may use this form to renew your dues for 2005 — or sign up a new member!*

Professional Category: (Check one)  
 Architect  
 Contractor  
 Engineer  
 Student - Name of School: \_\_\_\_\_  
 Affiliate  
 Other: \_\_\_\_\_

Please complete application and mail with your \$25 check to :  
  
Georgia Chapter, ACI  
100 Crescent Centre Parkway, Suite 110  
Tucker, GA 30084  
(770) 621-9324  
FAX: 770-621-9380

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



Georgia Chapter ACI  
Newsletter

Published Monthly  
January - May  
Summer Issue  
September - December

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**We're on the web!**  
[www.georgiachapteraci.org](http://www.georgiachapteraci.org)

## APRIL MEETING NOTICE

- Date: *Friday, April 29, 2005*
- Time: *11:30 a.m.—Registration  
12:15 p.m.—Luncheon*
- Location: *Sheraton Buckhead Hotel  
Atlanta, Georgia*
- Speaker: **Mr. Steven Maloof**  
**Carolina Stalite Company**
- Program: ***“Virtual Tour of a Lightweight Aggregate  
Plant and Lightweight Aggregate Concrete”***
- Price: *\$25.00 - Pre-registered  
\$10.00 - Students  
\$30.00 - Walk-ins and No-shows*
- RSVP: **To RSVP, please call “Sam” (770) 621-9324  
BEFORE 4:30 pm on WEDNESDAY,  
APRIL 27, 2005**
- Note: ***If you fail to call in prior to the deadline,  
or do not show for the luncheon,  
you will be charged \$30.00.***

*Members and non-members are welcome to attend our meetings*

**On-line Meeting Registration:**  
**[www.georgiachapteraci.org](http://www.georgiachapteraci.org)**