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## ACI Spring 2007 Convention

### April 22-26, 2007

### Hilton Atlanta

### Atlanta, GA

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# American Concrete Institute

## Board of Direction

### **President**

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Anthony E. Fiorato

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**You can be here!**



**ACI Fall 2007 Convention  
October 14-18, 2007  
El Conquistador Resort & Spa  
Puerto Rico**

**Puerto Rico—a place for business and pleasure!**

**For more information about the  
ACI Fall 2007 Convention,  
go to [www.concrete.org](http://www.concrete.org).**

# President's Welcome



ACI Members and Guests—Welcome to Atlanta and the ACI Spring 2007 Convention!

It is our privilege to return to this gorgeous and vibrant metropolitan community that gracefully blends high energy with cosmopolitan sophistication and traditional Southern hospitality.

When we met in Georgia's capital 10 years ago, we enjoyed a wide variety of world-class attractions, restaurants, and activities. This year, as you share "grits" or "mint juleps" with your ACI friends and acquaintances, we also recommend that you take full advantage of the variety of tours and programs that the local ACI Georgia Chapter has arranged. Enjoy the Taste of the Peach city tour, shopping in the historical district of Buckhead, the Covington's Mansions and Magnolias tour, strolling the Atlanta Botanical Gardens and the High Museum of Art, and visiting other cultural midtown and scenic attractions. My wife, Lizette, looks forward to meeting ACI guests at Monday afternoon's Guest Tea.

Take in Atlanta's beautiful landscape, and consider Hardscape, our theme for this convention. Several sessions will focus on Hardscape. While more than 300 committee meetings are planned this week, don't miss the student competition on Sunday featuring the Student FRP Composites Competition.

Convention highlights include Sunday's Opening Session and our Annual Awards Program, followed by the Opening Reception; the Student Lunch on Monday; Tuesday's Contractors' Day Lunch and the Concrete Mixer at the Georgia Aquarium; and the International Lunch on Wednesday.

Lizette and I look forward to greeting you in Atlanta. Have a great time at this convention and thank you for your support and contributions to ACI.

Regards,

A handwritten signature in black ink that reads "Thomas D. Verti". The signature is written in a cursive, flowing style.

Thomas D. Verti  
ACI President

# Mayor's Welcome



April 22, 2007

Greetings:

As Mayor of Atlanta, I am pleased to welcome you to the American Concrete Institute's (ACI) 2007 Convention hosted by the Georgia Chapter of ACI.

This year's ACI convention will enlighten those in the concrete industry on the latest technology and practices while providing networking opportunities for stronger relationships. The 2007 Convention theme "Hardscapes" speaks to ACI's dedication to improving the standards and specifications for concrete pavement, environmentally friendly pavers and segmental retaining walls for the enhancement of the urban environment. Thank you for your dedication to improving our community.

While in our city we encourage you to explore the many attractions Atlanta has to offer including: the Martin L. King Jr. Center, the Apex Museum, Underground Atlanta, the Georgia Aquarium, the World of Coca-Cola, CNN Center, Centennial Olympic Park, Woodruff Arts Center, Atlanta Botanical Garden, Children's Museum of Atlanta, and many more! We invite you to share in our southern hospitality, sample cuisine at our many fine restaurants, and enjoy the rich and diverse heritage of our city.

On behalf of the people of Atlanta, I wish you an exciting event!

Sincerely,

A handwritten signature in black ink that reads "Shirley Franklin".

Shirley Franklin

# Governor's Welcome



April 22-26, 2007

## GREETINGS:

It is a great pleasure to extend my best wishes on the occasion of the 2007 convention of the American Concrete Institute hosted by the Georgia Chapter.

Allow me to welcome your distinguished guests, speakers, exhibitors, industry professionals, and other attendees to our capital. Atlanta is a beautiful city providing many attractions, including the Georgia Aquarium, the world's largest; fine dining; historic sites; and various recreational facilities. I hope that you have an opportunity to enjoy some of them while you are here and experience the hospitality that is so much part of our everyday life.

You have my best wishes for a successful and enjoyable 2007 convention.

Sincerely,

A handwritten signature in cursive script that reads "Sonny Perdue".

Sonny Perdue



# ACI Sustaining Members



Allen Engineering Corp.



Cemex, Inc.



Owner of FACE Consultants Profiling

ALLFLAT

Concrete  
Engineering  
Specialists

Concrete Engineering Specialists



Ash Grove Cement Co.



Construction Materials  
Engineering Council - CMEC



Ashford Formula



CTL Group



Baker Concrete Construction Inc.



Dayton Superior Corp.



The Chemical Company

BASF Admixtures, Inc.



Essroc Cement Corp.



Boral Material Technologies Inc.



Buzzi Unicem USA



The Euclid Chemical Co.

# ACI Sustaining Members

Expanded Shale, Clay and Slate Institute



Rotary Kiln Produced Lightweight Aggregate

Expanded Shale,  
Clay and Slate Institute



Keystone Structural Concrete,  
Ltd.



FUTURE TECH CONSULTANTS  
Construction Materials Engineering,  
Inspection & Testing Services

Future Tech Consultants



An employee owned company

Kleinfelder, Inc.



Lafarge North America



Grace Construction Products



Lehigh Portland Cement Co.



Ground Heaters, Inc.



Lithko Contracting, Inc.



Headwaters Resources, Inc.



Meadow Burke Products, Inc.



Holcim (US), Inc.



W. R. Meadows, Inc.



MUNICIPAL TESTING



ICS Penetron International, Ltd.

Municipal Testing Lab



# ACI Sustaining Members



chemical solutions to concrete problems

Nox-crete



Omya Calcium Carbonate



Oztec Industries, Inc.



Portland Cement Association



Precast/Prestressed  
Precast/Prestressed Concrete  
Institute



PNA Construction Technologies  
Inc.



ProMix Technologies



CONCRETE SYSTEMS  
Propex Concrete Systems



Seretta Construction, Inc.



Sika Corp.



S. K. Ghosh Associates Inc.



Spurlino Materials



St. Lawrence Cement Co.



Structural Preservation Systems



Structural Services, Inc.  
Structural Services, Inc.



Tru Wall Concrete, Inc.



Westroc, Inc.

Sustaining Members listed as of 3/28/07

# Convention Sponsors

Sponsors are listed as of 3/30/07.

*The ACI Georgia Chapter wishes to thank the following organizations for their donations to make the ACI Spring 2007 Convention a success.*

## **70 MPa**

Georgia Certification & Accreditation Board  
Baker Concrete Construction  
Lafarge Materials Georgia  
Sika Corporation  
Thomas Concrete Industries, Inc.

## **60 MPa**

The Euclid Chemical Company  
Lehigh Cement Company  
Holcim (US), Inc. Florida/Georgia Region  
Site Technologies, Inc.

## **50 MPa**

BASF Admixtures  
Boral Material Technologies, Inc.  
Buzzi Unicem USA, Signal Mountain Plant  
CEMEX  
Grace Construction Products  
L.M. Scofield Company

## **40 MPa**

ACI New Mexico Chapter  
ACI Pittsburgh Area Chapter  
APAC/Ballenger Paving  
Headwaters Resources, Inc.  
Metromont Corporation  
Propex Concrete Systems

# Convention Sponsors

Convention sponsors listed as of 3/30/07

## **25 MPa**

ACI British Columbia Chapter  
ACI Florida Suncoast Chapter  
ACI Greater Miami Valley Chapter  
ACI Las Vegas Chapter  
ACI Louisiana Chapter  
ACI Missouri Chapter  
ACI New Jersey Chapter  
ACI Northeast Texas Chapter  
ACI Northern California/Western Nevada Chapter  
ACI Ontario Chapter  
ACI San Diego Chapter  
ACI Southern California Chapter  
APAC, Inc.  
Block USA  
Carolina Stalite Company  
Ernst Enterprises of Georgia  
Forta Corporation  
Holcim (US) Artesia Plant  
Robert Jenkins, PE, FACI  
National Cement Company  
Performance Concrete Technologies  
Ready Mix USA, Georgia Division  
Testing, Engineering & Consulting Service, Inc.  
United Consulting Group, Ltd  
Uzun & Case Engineers, LLC

# ACI Georgia Chapter 2007 Board of Directors

## **President**

Wayne M. Wilson  
Holcim (US), Inc.

## **Past President**

Nicholas F. "Nick" Maloof, FCI  
Thomas Concrete Industries

## **Vice President**

Frank Lennox  
Buzzi Unicem USA, Inc.

## **Secretary and Education Program Chair**

LaGrit F. "Sam" Morris, FCI  
ACI Certification Board

## **Treasurer and Newsletter Editor**

Mel Galinat, FCI

## **Directors**

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Peter Tatnall  
Performance Concrete Technology

John Love, III  
Georgia Concrete and Products Association

Kirk Deadrick  
Lafarge North America

Tim Moss  
Ready Mix USA, LLC

## **Certification Liaison**

Robert L. Terpening, FCI

# ACI Georgia Chapter Convention Committee

## **Co-Chairs**

Mel Galinat, FACI

LaGrit F. "Sam" Morris, FACI  
ACI Certification Board

## **Contractors' Day**

Robin Houghton  
Precision Concrete Construction

## **Exhibits**

Frank Lennox  
Buzzi Unicem USA, Inc.

## **Finance/Fund-Raising**

Nicholas F. "Nick" Maloof, FACI  
Thomas Concrete Industries

## **Guest Program**

Mary Lou Tatnall

Peter Tatnall, FACI  
Performance Concrete Technology

## **Publicity Chair**

Gordon Kenna  
Georgia Concrete & Products Association

## **Student Program**

Wayne M. Wilson  
Holcim (US), Inc.

## **Technical Program and Concrete Mixer**

Gary Knight  
Heidelberg Technology Center

## **Consultants**

Bob Kuhlman, FACI  
Eugene Boeke, FACI

# Get **More** than ever before!

To give ACI members more of the tools, information, and contacts needed to excel, the American Concrete Institute proudly announces new benefits available to members. When coupled with existing member benefits, ACI membership includes:

- Concrete Knowledge Center—Instant access to help using ACI 318
- Free CEUs Online
- Free Downloads of ACI Documents and Archived Papers
- Periodical Options
- Membership Directory
- Career Center

Visit the ACI Bookstore located in the Galleria Exhibit Hall to learn more about what's included in ACI membership.



American Concrete Institute®  
Now offering more value to members!

## Students!

ACI offers free Student electronic membership. For details on the connections, resources, and opportunities available to Students, visit:

[www.students.concrete.org](http://www.students.concrete.org)



American Concrete Institute®  
**Student E-Membership**

# General Information

## ACI Registration

## Galleria Exhibit

ACI staff are available to answer your convention questions at the ACI Registration Desk during the following hours:


Saturday	2:00 pm - 6:00 pm
Sunday	7:30 am - 5:00 pm
Monday and Tuesday	8:00 am - 5:00 pm
Wednesday	8:00 am - 12:00 pm

## Name Badges

ACI uses color-coded name badges to identify attendees. Name badges are as follows:

Member:	Blue
Attendee:	Black
Fellow:	Green
Honorary Member:	Red
Staff:	Orange
Guest:	Tan
Student:	Green Ribbon

## Attention ACI Attendees!

First-time convention attendees have a  on their name badge. Please welcome them to the convention!

## Emergencies

In the event of an emergency, we kindly request that you do NOT dial 9-1-1. Please go to the nearest house phone to contact Hilton Security at extension 1-1-8-8.

## Beverage Breaks

## Galleria Exhibit

Beverages will be available at the following times:

Saturday	2:00 pm - 5:00 pm
Sunday-Tuesday	7:30 am - 10:30 am and 1:00 pm - 4:00 pm
Wednesday	7:30 am - 10:30 am

## Alcohol Policy

Non-alcoholic beer and soft drinks are available at all ACI-sponsored receptions. Alcohol will not be served to anyone under the age of 21.

# General Information

## ACI Bookstore

## Galleria Exhibit

Visit the ACI Bookstore during the following hours:

Saturday	2:00 pm - 6:00 pm
Sunday-Tuesday	8:00 am - 5:00 pm
Wednesday	8:00 am - 12:00 pm

**NEW!**

## Career Center

## Galleria Exhibit

Looking for a job or an employee? Visit the Galleria Exhibit Hall to view ACI's NEW Online Career Center. This job search engine is specifically targeted to the concrete industry. Job seekers, you'll have an opportunity to post your resume and to view, apply for, and save available jobs. Employers, you'll have the opportunity to post job openings, post internships FREE of charge, target the individuals you want to attract, and possibly meet with candidates.

## Cyber Café and Wireless Hot Spot

## Galleria Exhibit

Stay connected to home and work! Take advantage of the Cyber Café and FREE wireless hot spot available during the following hours:

Saturday	2:00 pm - 6:00 pm
Sunday - Tuesday	8:00 am - 5:00 pm
Wednesday	8:00 am - 2:00 pm

A FREE wireless hot spot will be available in the Galleria Exhibit Hall. To access the wireless connection, look for **ACI Cybercafe 1** or **ACI Cybercafe 2** in your network connections.

**NEW!**

## Session Handouts on Demand

## Cyber Café – Galleria Exhibit

NEW to this convention is Session Handouts on Demand. Session handouts are now available via the ACI website. Stop by the Cyber Café or go to [www.concrete.org](http://www.concrete.org) to download or print a copy of the handouts for the sessions you plan to attend.

## Local Information and ACI Georgia Chapter

## Lobby

ACI Georgia Chapter members will be happy to answer questions and recommend restaurants nearby. Stop by their information desk during the following hours:

Saturday	2:00 pm - 6:00 pm
Sunday - Tuesday	8:00 am - 5:00 pm



# General Information

## Membership Information

## ACI Bookstore – Galleria Exhibit

To learn MORE about the new ACI membership benefits and how to become a member, visit the ACI Bookstore in the Galleria Exhibit Hall.

## Hotel Restaurants and Lounges

### Café Express

Lobby

If you're in a hurry, Café Express is the perfect place to visit for snacks, Starbucks® coffee, and other beverages. Choose from whole fruit, sandwiches, salads, tea, juice, and other treats that are sure to satisfy.

### Le Café

Lobby

Stop by Le Café for convenient, casual dining for breakfast, lunch, or dinner. Choose from a menu of delicious American fare, featuring chicken, steak, and pasta dishes. Le Café is open from 6:00 am to 12:00 am daily.

### Trader Vic's

Lower Lobby Level

Experience the tropics at Trader Vic's, the creator of the world-famous Mai Tai. Palm trees, tiki torches, and Polynesian wood carvings accompany savory cuisine. Trader Vic's is open for dinner Monday through Saturday from 5:30 pm to 11:00 pm.

### Nikolai's Roof

30th Floor

Nikolai's Roof, an Atlanta tradition in fine dining for over 25 years, serves innovative cuisine, using the freshest ingredients for dinner, open Tuesday through Thursday from 5:30 pm to 10:30 pm. Reservations are recommended, as well as a jacket and tie.

### Casablanca Lounge

Lobby

Casablanca Lounge is the ideal place to meet after a busy, productive day or before dinner. Casablanca Lounge is open from 4:00 pm to 2:00 am Monday through Saturday and 4:00 pm to 12:00 am on Sunday.

## Transportation Around Town

Taxis are available from the main lobby to any location of your choice.

MARTA is the bus and rail service for downtown Atlanta and the surrounding suburbs. A stop is two blocks from the hotel at Peachtree Center. Fares are \$1.75. Trains run at 10- to 20-minute intervals (depending on the time of day) from 5:00 am to 1:00 am Monday through Friday and 5:00 am to 12:30 am on the weekends. To learn more about MARTA, go to [www.itsmarta.com](http://www.itsmarta.com).

# General Information

## **Airport Transportation**

The Atlanta Link is the sole shuttle operator at the airport that serves Downtown, Midtown, and Buckhead. The rates to Downtown are \$16.50 (one way) and \$29.00 (roundtrip), Midtown \$18.50 and \$33.00, and Buckhead \$20.50 and \$37.00. Hotel pick-up times are twice an hour at 30-minute intervals from the Downtown hotels and once an hour from the Midtown and Buckhead hotels. For pickups after 5:00 pm from the hotel, please call to arrange a pick-up time. Should you have any questions or difficulty locating the booth at the airport, please feel free to call their offices at 1-404-524-3400. To receive a \$2.00 discount off the roundtrip fare, go to the following link: <http://hudsonltd4.com/cgi-bin/al1/res?USERIDENTRY=ACI&LO GON=GO>.

Taxis to the airport are approximately \$30 one way.

**NEW!**

## **Recycling**

## **Galleria Exhibit**

Go green with ACI! ACI is recycling name badge holders, convention bags, and paper at this convention. Drop these items in the blue bins located in the Galleria Exhibit Hall.

## **Professional Development Hours (PDHs)**

You can earn PDHs by participating in the sessions in Atlanta. Simply fill out the PDH form found in your registration packet, or between pages 143 and 144, and submit it to your local registration board. PDHs are a nationally recognized unit of record in non-credit professional development programs.

## **Schedule Changes**

## **Galleria Exhibit**

Cancellations, additions, and location changes to the convention schedule will be posted daily on plasma screens in the Galleria Exhibit Hall.

# General Information

## **Speaker Ready Room**

**Henry**

The Speaker Ready Room is available to moderators, speakers, and committee Chairs during the following hours:

Saturday-Tuesday	7:00 am - 7:00 pm
Wednesday	7:00 am - 3:00 pm

All speakers are requested to check in at the Speaker Ready Room 1 day prior to their session to ensure that:

- ACI has downloaded their presentation on the network in the session rooms; and
- Speakers' session handouts are downloaded onto the ACI website.

Also note that FedEx Kinko's is located on the lobby level of the Hilton. FedEx Kinko's is open Monday through Friday from 6:30 am to 11:00 pm, Saturday from 9:00 am to 5:00 pm, and Sunday from 11:00 am to 7:00 pm.

## **Student Lounge**

**Galleria Exhibit**

The Student Lounge is a great place to relax, meet other students, and enjoy refreshments in-between activities.

## **ACI Fall 2007 Convention Information**

**Galleria Exhibit**

The ACI Puerto Rico Chapter and Puerto Rico Tourism Company will be available to answer your questions about Puerto Rico and activities at the fall convention. Mark your calendars for October 14-18, 2007!

# Where's That Meeting Room?

## **Below 1st Floor/Lobby**

Galleria Exhibit Hall

## **Abbreviation**

Galleria Exhibit

## **1st Floor/Lobby**

Executive Boardroom

Executive Boardroom

Crystal Ballroom A

Crystal A

Crystal Ballroom C

Crystal C

Crystal Ballroom D

Crystal D

Crystal Ballroom F

Crystal F

## **2nd Floor**

Grand Ballroom

Grand Ballroom

Grand Ballroom A

Grand A

Grand Ballroom B

Grand B

Grand Ballroom C

Grand C

Grand Ballroom D

Grand D

Grand Salon

Grand Salon

Grand Salon A

Salon A

Grand Salon B

Salon B

Grand Salon C

Salon C

Grand Salon D

Salon D

Grand Salon E

Salon E

## **2nd Floor, Southern Court Rooms**

Fayette

Fayette

Newton

Newton

Rockdale

Rockdale

Forsythe

Forsythe

Henry

Henry

Cherokee

Cherokee

## **2nd Floor, Northern Court Rooms**

Fulton

Fulton

Cobb

Cobb

Clayton

Clayton

Douglas

Douglas

Paulding

Paulding

Dekalb

Dekalb

Gwinnett

Gwinnett

# Where's That Meeting Room?

## **3rd Floor, Presidential Court**

Adams

Washington

Jefferson

Roosevelt

Monroe

Madison

Jackson

Carter

Adams

Washington

Jefferson

Roosevelt

Monroe

Madison

Jackson

Carter

## **4th Floor, Executive Conference Rooms**

Board Room

Directors Room

Embassy Room

Cabinet Room

Congressional Room

Council Room

Club Room

State Room

Legislative Room

Board

Directors

Embassy

Cabinet

Congressional

Council

Club

State

Legislative



ACI's Online Career Center brings together great job opportunities and great candidates.

This job search engine is specifically targeted to the concrete industry.

- **Easy online job management**
- **Resume searching access**
- **Company awareness**
- **FREE Student Internships**

Don't miss this unique opportunity to be seen by an exclusive audience of the industry's best and brightest! Visit **[www.concrete.org](http://www.concrete.org)** or stop by the Career Center in the Galleria Exhibit Hall.



**American Concrete Institute®**  
Now offering more value to members!

**Introducing ACI's Career Center**

# Exhibitors

Exhibitors listed as of 3/29/07

## Exhibits

## Galleria Exhibit

The ACI Georgia Chapter and the American Concrete Institute wish to thank all exhibitors for their participation and support of the ACI Spring 2007 Convention. Exhibitors are listed as of 3/29/07.

## Exhibit Hours

Saturday	2:00 pm - 6:00 pm
Sunday	8:00 am - 5:00 pm and 6:30 pm - 7:30 pm
Monday and Tuesday	8:00 am - 5:00 pm
Wednesday	8:00 am - 12:00 pm

## Exhibitor Listing

### Federal Highway Administration Mobile

#### Concrete Testing Lab

#### Harris Street

The Federal Highway Administration's Mobile Concrete Laboratory (MCL) is a technology transfer program designed to bridge the gap between a technology's developmental phase and its implementation phase by introducing innovative concrete testing equipment to our partners at the State Highway Agencies (SHAs), industry organizations, and academia. The MCL accomplishes this mission by providing on-site testing to complement state-of-practice testing, training SHA personnel in the use of new technologies, overseeing an equipment loan program to SHA personnel, and showcasing innovative equipment at conferences and SHA facilities. The MCL is a fully functional laboratory uniquely housed inside a 50 foot trailer that is equipped with both conventional and innovative fresh and hardened concrete testing equipment. The FHWA's Office of Pavement Technology is pleased to present its newest Mobile Concrete Laboratory in its first public appearance at the ACI Spring 2007 Convention.

**Please stop by and tour the MCL between 12:00 pm and 5:00 pm on Sunday or 9:00 am and 5:00 pm Monday through Wednesday.**

### American Association for Laboratory

#### Accreditation (A2LA)

#### Booth #709

A2LA is a private, non-profit membership organization whose primary mission is to provide comprehensive accreditation for laboratories, inspection bodies, proficiency testing providers, reference materials producers, and product certification bodies. Assessments are conducted using international standards and specific requirements developed in cooperation with government and industry.

# Exhibitors

Exhibitors listed as of 3/29/07

## **AXIM Italcementi Group**

**Booth #109**

Recognized as a sustainable partner by customers for over 20 years, AXIM Concrete Technologies operates as a key component of ESSROC Cement Corp. and Italcementi Group. Founded in 1985, with the purpose of providing the concrete industry with quality products as well as extensive technical service and support, AXIM is now the largest admixture supplier in many of its markets.

## **BASF Construction Chemicals, LLC**

**Booth #502**

The admixture systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in ready mixed, precast, manufactured concrete products; underground construction; and paving markets throughout the NAFTA region. The company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance, and performance characteristics of concrete.

## **Boral Material Technologies, Inc.**

**Booth #703**

Boral Material Technologies, Inc. is a major processor and marketer of coal combustion products in the U.S. With over 40 years of marketing experience, Boral is committed to supplying quality products broadly supported with skilled technical sales professionals. To meet both their customers' present and future needs with coal combustion products, Boral continues its commitment to customer-based research and development and broad-based marketing programs.

## **Burgess Pigment Company**

**Booth #206**

Burgess Pigment Company is the manufacturer of Optipozz, a pozzolanic metakaolin used to improve compressive and flexural strength, durability, chemical resistance, and trowelability of high-strength mixture designs.

## **CAB/Southface**

**Booth #700**

Southface promotes sustainable homes, workplaces and communities through education, research, advocacy and technical assistance. We encourage marketplace transformation for sustainable practices through our EarthCraft House program (a residential standard for healthy, efficient design.) In addition, our Commercial Green Building Services Team provides LEED administration and building science consulting.



# Exhibitors

Exhibitors listed as of 3/29/07

## **Cargill Safelane**

**Booth #600**

Safelane™ Surface Overlay System is a patented polymer pavement overlay that reduces ice or frost formation on its surface while protecting infrastructure from corrosion and chloride intrusion. A polymer epoxy is mixed with aggregate and applied to pavement surfaces. This aggregate has the unique ability to store deicing liquids and release them when weather conditions demand it. The result is safer, more durable roads and bridges that are easier to maintain.

## **Carolina Stalite Company**

**Booth #501**

Carolina Stalite Company produces rotary kiln expanded slate aggregate for lightweight structural concrete and lightweight concrete masonry units. This low absorption, high-performance aggregate has been used in projects across the U.S., Canada, and Europe.

## **CMEC**

**Booth #107**

CMEC is a not-for-profit organization whose goal is to improve the quality of the production, inspection, and testing of construction materials through its accreditation, education, and certification programs. Created in 1983, CMEC has evolved into a complete source for concrete, aggregate, asphalt, earthwork, chemical, and masonry testing laboratories for accreditation, proficiency sampling, technician certification, and education.

## **ConcreteCareers.com**

**Booth #608**

ConcreteCareers.com, Inc. is a full-service, executive, industry-specific, search, and recruiting firm. Since 1976, Concrete Careers has been a supplement to the concrete industry's human resource expertise by identifying and matching individual talents, abilities, and experience for specific staffing requirements.

## **Dayton Superior Corp.**

**Booth #708**

Dayton Superior Corp. is the leading manufacturer of chemicals, accessories for concrete, and masonry and highway pavement products in the industry.

## **Decon USA, Inc.**

**Booth #702**

Decon USA, Inc. is the original developer of the Studrail system for punching shear at slab-to-column connections. Studrails are also increasingly used in place of hairpins at banded P/T anchors. Both applications result in labor savings, increased performance, and reduced congestion.

# Exhibitors

Exhibitors listed as of 3/29/07

## **Durafiber, Inc.**

**Booth #710**

Durafiber, Inc. furnishes fibers for ready mix concrete plants.

## **Engineered Restorations, Inc.**

**Booth #711**

Engineered Restorations, Inc., is a specialty contracting and consulting company that provides restoration, repair, and protection services for structures of all types. Remedial service capabilities include restoration and waterproofing of commercial buildings, industrial floor repair and maintenance, concrete repair and grouting for structures of all types, and geotechnical improvements.

## **The Euclid Chemical Co.**

**Booth #200**

The Euclid Chemical Co. provides concrete specialty products worldwide. They include admixtures, curing compounds, floor and slab hardeners, repair materials, corrosion inhibitors, and solutions.

## **Fibrwrap Construction, Inc.**

**Booth #602**

Fibrwrap Construction, Inc. (FCI) is a full-service structural renovation company, globally recognized for providing turn-key, design-build structural repairs. Since 1988, FCI has been the industry leader specializing in fiber-reinforced polymer strengthening, offering a range of cost-effective solutions to owners, engineers, and contractors.

## **FORTA Corporation**

**Booth #705**

FORTA Corporation was founded in 1978. FORTA is the oldest synthetic fiber-reinforcement producer in the country. FORTA Corporation has grown to become a worldwide leader in synthetic fiber research and development. The most recent innovation is FORTA Ferro, a macro-synthetic fiber that allows for a higher replacement level of conventional steel reinforcement.

## **Germann Instruments, Inc.**

**Booth #101 and 103**

Germann Instruments, Inc., is a leading manufacturer and distributor of in-place nondestructive testing equipment for the investigation of plain and reinforced concrete structures. Our systems include LOK-TEST for compressive strength, AVA for air-void analysis, DOCTer and s'MASH for structural defects, RapiCor for corrosion rate, and RCT for in-place chloride testing.

## **Headwaters Resources**

**Booth #408**

Headwaters Resources markets fly ash for building products. Visit [www.flyash.com](http://www.flyash.com) for more information.

# Exhibitors

Exhibitors listed as of 3/29/07

## **Kestrel Pocket Weather Meters**

**Booth #409**

Kestrel Pocket Weather Meters are portable, handheld instruments that measure a variety of weather conditions that are crucial for concrete professionals. Temperature, humidity, and wind velocity determine if plastic shrinkage of concrete is likely. To prevent shrinkage cracking, it is imperative to monitor the weather conditions prior to placement right at the point of placement. Kestrel Pocket Weather Meters are an ideal instrument for accurate, portable, weather information. Kestrel Pocket Weather Meters has been researching, designing, and manufacturing Kestrels for over 10 years. All units are made in the U.S. and come with a 2-year warranty.

## **Kryton International**

**Booth #704**

Kryton International is the world's leading developer, manufacturer, and distributor of concrete waterproofing solutions. Worldwide Kryton is helping engineers, architects, contractors, and owners to save time and money by providing durable, long-term, reliable solutions. Featured Crystalline product systems include: Concrete Crack Repair and Surface Treatment, Waterproofing Admixture, and Jointing System.

## **Lafarge**

**Booth #508**

Lafarge is the largest diversified supplier of construction materials in the U.S. and Canada. The company's products, including a full line of cements, cement-related materials, and concrete, are used for residential, commercial, institutional, and public works construction.

## **L.M. Scofield Company**

**Booth #303**

L.M. Scofield Company provides a diverse range of engineered systems for coloring, texturing, and improving performance in architectural concrete for new construction or renovation. Scofield Systems transform ordinary concrete into extraordinary, creative, and durable surfaces for hard landscaping, vertical construction, and interior floors. Visit [www.scofield.com](http://www.scofield.com) or call 866-870-8470.

## **MALA**

**Booth #208**

MALA GeoScience is the world leader in ground penetrating radar (GPR). Come see our CX-Concrete GPR with the new 2.3 GHz transducer. The new FCC-approved 2.3 GHz transducer is the highest frequency and highest resolution GPR system in the world.

# Exhibitors

Exhibitors listed as of 3/29/07

## **Nawkaw Corporation**

**Booth #714**

Nawkaw provides concrete staining applications for renovation, restoration, decorative color, graffiti removal and resistance, and custom color blending. Multiple layered finishes, sand-like coating, and metal fleck are also available. Nawkaw celebrates its 20th anniversary this year as a full-service company, manufacturing its own proprietary product line.

## **Olson Engineering, Inc.**

**Booth #301**

Olson Engineering, Inc., has become an industry leader in non-destructive evaluation and internal condition assessment of civil structures and infrastructure. Olson Instruments is a pioneer in research and development of non-destructive evaluation and testing software and hardware. Visit our booth for more information and a hands-on demonstration.

## **Omya Canada Inc.**

**Booth #712**

Omya is the worldwide leader in high quality calcium carbonate. Ultrafine calcitic limestone fillers can be used to optimize the particle packing of a concrete mixture design. It improves green strength, finishes, fluidity, and workability. It reduces excessive bleeding and segregation. Savings can be achieved through cementitious content reduction. For more information, visit [www.omya.com](http://www.omya.com).

## **Propex Concrete Systems**

**Booth #403**

With over 25 billion square feet of fiber-reinforced concrete placed around the world, Propex Concrete Systems is the international leader in fiber-reinforced concrete technologies. Propex creates advantages for our customers in the markets it serves by finding solutions to their greatest technical challenges and providing exceptional service and expertise from initial order to end-use application. Propex creates the advantages that create success. For more information, visit [www.fibermesh.com](http://www.fibermesh.com).

## **QuakeWrap Inc.**

**Booth #706**

QuakeWrap Inc.'s award-winning technology provides solutions for the repair and strengthening of structures at a fraction of the time and cost of conventional methods. Within one integrated process, QuakeWrap's highly-skilled engineers and construction crew create solutions specifically tailored to satisfy clients, including: Coca Cola, Trump Towers, and United Airlines.

# Exhibitors

Exhibitors listed as of 3/29/07

## **Sika Corporation**

**Booth #400**

Sika Corporation Construction Products Division, Lyndhurst, NJ, is a technology leader with over 90 years of experience in concrete materials and restoration technology. Sika's product line includes concrete admixtures, sealants, adhesives, corrosion inhibitors and total corrosion management products, specialty mortars, epoxy resins, structural strengthening systems, grouts, anchoring adhesives, resinous flooring and wood floor adhesive systems, and installation products. Full service sales and technical offices support customers worldwide. Please visit the Sika Corporation Construction Products Division website at [www.sikaconstruction.com](http://www.sikaconstruction.com).

## **Silica Fume Association**

**Booth #105**

The Silica Fume Association, through a cooperative agreement with the Federal Highway Administration (FHWA), provides high-performance concrete technology to transportation departments and the concrete construction community.

## **Slag Cement Association**

**Booth #202**

The Slag Cement Association (SCA) represents suppliers of slag cement in the U.S. The SCA provides technical resources for design and construction professionals so they can optimize the use of slag cement in concrete. Slag cement enhances the strength, durability, and sustainability of concrete.

## **Southeast Cement Association (SCA)**

**Booth #503**

SCA provides technical and construction resources for innovative street, road, and pavement projects, offering economical solutions for stronger pavements.

## **SPEX SamplePrep LLC**

**Booth #402**

Tired of the same old grind? SPEX SamplePrep LLC manufactures a line of laboratory mills and grinding containers used for rapid grinding of cement and other brittle materials to analytical fineness. When used in conjunction with our line of pressing and pelletizing equipment, our mills can solve your sample preparation needs.

# Exhibitors

Exhibitors listed as of 3/29/07

## **TEC Services, Inc.**

**Booth #500**

TEC Services, Inc., is an independent engineering, consulting, and testing group focused on meeting the quality requirements of today's industry. Services include:

- American Association of State Highway and Transportation Officials (ASHTO)-accredited lab testing of concrete, cements, aggregates, and construction products;
- Petrographic evaluation of hardened concrete and mortar;
- Nondestructive testing and materials evaluation; and
- Structural evaluations and repair design.

## **Vector Corrosion Technologies**

**Booth #701**

Vector Corrosion Technologies provides products and services for concrete corrosion protection. Our innovative solutions include electrochemical chloride extraction, impressed current cathodic protection, and an array of galvanic protection systems, including embedded galvanic anodes, galvanic jackets, and activated arc-spray zinc metallizing. Vector also provides corrosion evaluation and mitigation of post-tension corrosion. Contact Vector at 813-830-7566 or visit [www.vector-corrosion.com](http://www.vector-corrosion.com).

## **Vitro Minerals**

**Booth #707**

Vitro Minerals specializes in advanced pozzolans for high-performance concrete applications including white cement concrete and building products used for architectural panels, cast stone, synthetic stone veneers, roofing tiles, mortars, stucco, grouts, and other white and tinted concrete decorative products. These high-performance white pozzolans are especially desirable in white and colored concrete to add long-term strength and improve durability.

## **W.R. Grace & Co.**

**Booth #309**

W.R. Grace's quality building materials can be found in nearly every major project around the globe and are being specified more often because they offer long-term value. Grace Construction Products delivers a level of service and support for its products that is unique in the industry, offering highly skilled personnel around the world to assist customers in the use of Grace products. As a result, the world's most important structures stand protected from the ravages of water, fire, erosion, corrosion, and time.

# Exhibitors

Exhibitors listed as of 3/29/07

**Xella Aircrete North America Inc.**

**Booth #401**

For construction projects of every variety—whether residential, industrial, or commercial—Xella Aircrete North America Inc. offers security and peace of mind with the industry’s most trusted and reliable building materials. With HEBEL Autoclaved Aerated Concrete, we help make your construction project faster, more efficient, and more secure.

**Xypex Chemical Corporation**

**Booth #204**

Xypex Chemical Corporation manufactures high-performance products for the waterproofing and protection of concrete.

# Notes



# Special Events

## Sunday, April 22, 2007

### **First-Time Convention Attendee Breakfast**

**Forsythe**

**8:00 am - 9:00 am**

#### **Sponsored by the ACI Convention Committee**

First-time convention attendees are invited to join William E. Rushing Jr., Chair of the ACI Convention Committee, for a continental breakfast and a brief session to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI convention has to offer.

### **Student FRP Composites Competition**

**Galleria Exhibit**

**1:00 pm - 5:00 pm**

#### **Session Co-Moderators: John J. Myers and Vicki L. Brown**

Students design, construct, and test a concrete structure reinforced with fiber-reinforced polymer (FRP) bars to achieve the optimal load-to-weight ratio, predict the ultimate load, and predict the load that will result in a piston deflection of 2.5 mm (0.1 in.). Don't miss this exciting competition! Stop by and cheer on your favorite team!

### **Opening Session and Awards Program**

**Grand Ballroom**

**5:15 pm - 6:30 pm**

The ACI Spring 2007 Convention officially begins at the Opening Session. During the session, ACI will recognize over 60 individuals and groups for their contributions to ACI and achievements in the concrete industry.

## Congratulations to the following awardees:

### **HONORARY MEMBERS**

Mario Collepardi

Bernard Erlin

Howard R. May

Jan Moksnes

Shigeyoshi Nagataki

# Special Events

## Sunday, April 22, 2007

### Congratulations to the following awardees:

#### FELLOWS

Dennis C. Ahal	Will Hansen
Scott D.B. Alexander	Carolyn M. Hansson
Joseph A. Amon	Kent A. Harries
Neal S. Anderson	Cecil L. Jones
Mark A. Aschheim	Keith Kesner
Richard (Rick) P. Bohan	Sashi K. Kunnath
Michael A. Caldarone	Richard A. Lawrie
William (Bill) Ciggelakis	Andres Lepage
I-Kuang Fang	William J. Lyons, III
Edward J. Garboczi	John J. Myers
Lawrence G. Griffis	Satish K. Sachdev
Pawan R. Gupta	Andrew W. Taylor

#### 50-YEAR MEMBERSHIP CITATIONS

John E. Breen	Douglas H. Merkle
Ned Burns	Arthur H. Nilson
Irwin Cantor	Donald H. Olson
Eric Elsesser	William Poznak
Noel J. Everard	Stanley Prill
H.C. Fischer	Charles G. Salmon
Neil M. Hawkins	Norman L. Scott
Nicholas M. Hernandez	John Seidensticker
Ira Hooper	Donald C. Tsiang
Raymond Itaya	John White
Alan H. Mattock	Roger Wildt
Howard R. May	Wayman C. Wing
Donald D. Meisel	

#### ARTHUR R. ANDERSON AWARD

Richard C. Prusinski

#### ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD

Terry J. Fricks

#### JOE W. KELLY AWARD

World of Concrete Seminar Program

#### HENRY L. KENNEDY AWARD

Khaled W. Awad

#### ALFRED E. LINDAU AWARD

Bernardo Deschappelles

# Special Events

## Sunday, April 22, 2007

**Congratulations to the following awardees:**

**HENRY C. TURNER MEDAL**

Enrique Pasquel

**CHARLES S. WHITNEY MEDAL**

California Department of Transportation (Caltrans)

**CEDRIC WILLSON AWARD**

John P. Ries

**ACI CERTIFICATION AWARD**

Ismael Aviles • Thomas O. Malerk • Ronald E. Vaughn

**ACI DISTINGUISHED ACHIEVEMENT AWARD**

Uzun and Case Engineers, LLC

**ACI YOUNG MEMBER AWARD FOR PROFESSIONAL ACHIEVEMENT**

Lawrence H. Taber • Jason Weiss

**WASON MEDAL FOR MOST MERITORIOUS PAPER**

Matthew Offenber

**ACI CONSTRUCTION AWARD**

Roger Woodhead • Kevin Main

**WASON MEDAL FOR MATERIALS RESEARCH**

Dale P. Bentz • Pietro Lura • John W. Roberts

**CHESTER PAUL SIESS AWARD FOR EXCELLENCE IN  
STRUCTURAL RESEARCH**

Kenneth J. Elwood • Jack P. Moehle

**ACI DESIGN AWARD**

L. Javier Malvar

**DELMAR L. BLOEM DISTINGUISHED SERVICE AWARD**

Joseph A. Daczko • Jonathan E. Dongell • Jay H. Paul

**CHAPTER ACTIVITIES AWARD (DOMESTIC)**

Joe Hug • Kenneth M. Lozen

**CHAPTER ACTIVITIES AWARD (INTERNATIONAL)**

Khaled W. Awad • Enrique Pasquel

# Special Events

## Sunday, April 22, 2007

### Congratulations to the following awardees:

**WALTER P. MOORE, JR., FACULTY ACHIEVEMENT AWARD**

James H. Hanson

**CONCRETE RESEARCH COUNCIL—ARTHUR J. BOASE AWARD**

Thomas T.C. Hsu

**CONCRETE RESEARCH COUNCIL—ROBERT E. PHILLEO AWARD**

William Hime

#### **CHAPTER AWARDS—CITATIONS OF EXCELLENCE**

##### **Excellent Chapters**

Carolinas

Central and Southern Mexico

Georgia

Greater Miami

India

Iran

Louisiana

Missouri

New Jersey

New Mexico

Northeast Texas

Peru

Rocky Mountain

Southern California

##### **Outstanding Chapters**

Algeria

Arizona

Eastern Pennsylvania and Delaware

Greater Michigan

Indiana

Intermountain

Kansas

Las Vegas

Mongolia

Nebraska

Northern California/Western Nevada

Ontario

Pittsburgh Area

San Diego International

# Special Events

## Sunday, April 22, 2007

### **Opening Reception**

**Galleria Exhibit**

**Approximately 6:30 pm - 7:30 pm**

After the Opening Session, meet your colleagues, friends, and the exhibitors for a beverage from the cash bar and enjoy light refreshments in the Galleria Exhibit Hall. Don't miss this networking opportunity before heading out to Atlanta's unique restaurants.

### **Hot Topic Session: Cast-in-Place and Post-Installed**

**Anchors: What, When, and How**

**Salon A**

**7:30 pm - 10:00 pm**

**Session Moderator: Kirk Deadrick**

In this session, speakers will discuss cast-in-place and post-installed (mechanical and chemical) anchoring to concrete, including the types of anchors available, their qualification, design, and use. Installation recommendations and precautions of special interest to the designer and contractor will be discussed. Items to be considered in anchor selection and design, such as provision for redundancy, are also covered.

*Refreshments will be available courtesy of the ACI Georgia Chapter.*

# Special Events

## Monday, April 23, 2007

### Workshop for Technical Committee Chairs

Grand A

6:30 am - 8:15 am

**Session Moderator: Michael E. Kreger**

ACI Technical Committee Chairs are invited to attend this breakfast workshop for an opportunity to meet with fellow Chairs, TAC members, and ACI staff. There will be table discussions and short presentations on recent developments of interest to ACI technical committee Chairs. All ACI technical committee Chairs are expected to be at this workshop. If you are unable to attend, please ask the Secretary or another committee member to represent you in your absence.

### Chapter Forum: Successful Awards Programs

Crystal C&D

7:30 am – 8:30 am

Sponsored by the Chapter Activities Committee

**Session Moderator: Andrea J. Schokker**

Many ACI chapters celebrate significant concrete projects in their area with project awards. The awards provide important publicity for the concrete construction community. Representatives from three ACI chapters will discuss their approach to administering their awards programs. This session will be of interest to chapters with awards programs as well as those wishing to establish a project awards program.

### ✓ Student Lunch

Grand A

12:00 pm - 2:00 pm

\$40 U.S. per person

Hosted by the ACI Georgia Chapter and ACI Committee E801, Student Activities



**Speaker:** Bob Harris

President

The Decorative Concrete Institute

Temple, GA

**Topic:**

Decorative Concrete—From Fringe Fashion to an In-Vogue Material with Widespread Appeal

Join Bob Harris for an overview of the roots of decorative concrete through the current mainstream markets. During this presentation, participants will learn about the different market segments that make up decorative concrete and new, innovative products and

✓ Separate Fee Required

# Special Events

## Monday, April 23, 2007

techniques, such as stamping, staining, polishing, concrete countertops, and floor overlayers. See why millions of consumers from architects, engineers, municipalities, and retail owners to homeowners are choosing the decorative concrete alternative.

Following lunch, awards will be presented to the winners of the Student FRP Composites Competition. The Student Lunch is FREE to students who preregister. **PREREGISTRATION IS REQUIRED TO ATTEND.**

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

### **Nondestructive Evaluation Methods Demonstration    Galleria Exhibit** **Monday & Tuesday**

**2:00 pm - 4:00 pm**

Those interested in nondestructive evaluation for structural, pavement, and tunnel systems will have an opportunity not only to see a range of equipment, but also to try them out.

Larry Olson, Principal Engineer of Olson Engineering and Olson Instruments, invites you to participate in a hands-on demonstration of nondestructive evaluation (NDE) methods for concrete thickness, void, honeycomb, cracking, strength, subgrade support, and corrosion condition. Specific NDE methods to be demonstrated are listed as follows:

- Impact Echo  
Concrete Thickness Gauge  
Impact Echo Scanner
- Spectral Analysis of Surface Waves
- Ultrasonic Pulse Velocity
- Structural Tomography Imaging Software
- Slab Impulse Response
- GalvaPulse™ for Corrosion Rate, Activity, and Concrete Resistance

Technical briefs on the methods will be available. The NDE equipment will also be on display at the Olson Engineering and Olson Instruments exhibit **booth #301**. Mr. Olson is a member of the ACI Committee 228, Nondestructive Testing of Concrete, and 309, Consolidation of Concrete, and is Chair of the ICRI Evaluation Committee.

# Special Events

## Monday, April 23, 2007

### **Women in ACI Reception**

**Crystal A&F**

**5:00 pm - 6:00 pm**

All registered convention attendees are invited to attend the Women in ACI Reception. This long-standing ACI tradition is a great opportunity to get to know other women in the concrete industry through networking and socializing. A hosted bar and light hors d'oeuvres will be served.

### **TAC 60th Anniversary Reception**

**Crystal C&D**

(by invitation only)

**6:30 pm - 7:30 pm**

Sponsored by the ACI Technical Activities Committee  
Join members of the Technical Activities Committee (TAC) as they reunite in Atlanta. All past and current TAC members and their guests are invited to attend this casual event. Start the night off with light snacks and a cash bar. Suggested attire: TAC alumni shirts or casual attire.

### **Puerto Rico Convention Preview Reception**

**Grand A&B**

**7:00 pm - 9:00 pm**

Join the ACI Puerto Rico Chapter and get a preview of beautiful Puerto Rico. Come to the island and complement your ACI convention with a vacation. From hiking in a rain forest to conquering the largest Fortress in America, to dining on an infusion of classic and delectable Caribbean cuisine, to romantic walks on a moonlit beach—virtually any type of vacation interest can be accommodated in the land of your dreams, Puerto Rico.

### **123 Forum: Is This Concrete Durable Enough?**

**Salon A**

**7:30 pm - 10:00 pm**

Sponsored by Committee 124

#### **Session Moderator: Mohammad S. Khan**

Following its long tradition, ACI Committee 123, Research and Current Developments, again brings industry experts together to discuss concrete-related issues and share their views with ACI attendees. This time, they will debate whether or not the concrete we commonly design and construct offers durability consistent with its expectations. Is our concrete of today durable enough to last 50 or 100 years, or even longer? By now, we all realize that a high-strength concrete does not necessarily mean a durable concrete. The instances of concrete failure to meet strength expectations are few, whereas the instances of concrete failing to meet its durability expectations are more numerous. This leads us to a basic question: Do we understand the complex interactions of various constituents within the concrete and the interaction of concrete and the environment it is exposed to? If we do, then do we know what it takes to produce a long-lasting, durable concrete? Our panelists in Atlanta will address these and other questions you may have.



# Special Events

## Tuesday, April 24, 2007

### **Educational Committee Chair Training Breakfast**

**Monroe**

**6:30 am - 8:00 am**

**Session Moderator: Cecil Jones**

ACI Educational Committee Chairs are requested to attend this breakfast training session. This event provides an opportunity to meet with EAC members and other E-committee Chairs to discuss topics of interest to Committee Chairs. This session will focus on the issues of achieving and maintaining committee member balance to assure smooth committee function. There will also be time available to discuss other items of interest to Chairs.

### **✓Contractors' Day Lunch**

**Grand A**

**12:00 pm - 2:00 pm**

**\$42 U.S. per person**

Hosted by the Construction Liaison Committee and the ACI Georgia Chapter

**Speaker:** Harry Moats  
Chief Operating Officer  
L.M. Scofield Company  
Atlanta, GA

**Topic:** Decorative Concrete—It Doesn't Have to Be Flat Anymore!

Harry Moats will discuss how to evaluate, set up, and execute vertical decorative concrete projects for the best results and a quality job. These are the things that a contractor needs to know about vertical decorative work versus conventional flatwork decorative work. This is essentially the "do's and don't's" of vertical concrete construction. Engineers, architects, and contractors will find this presentation very beneficial to their practice.

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

✓Separate Fee Required

# Special Events

## Tuesday, April 24, 2007

### **Building Green with ICFs, Part 2: Southface Eco Office Hard Hat Tour** **Departs Main Lobby**

**1:45 pm - 5:00 pm**

Sponsored by Committee 560

#### **Session Moderator: Carla V. Yland**

This session will be a case study of the exciting newly-opened Southface Eco Office building in Atlanta, a Platinum LEED building constructed with ICFs. Speakers will discuss the architectural, design, and construction aspects of the project. A tour of the facility will also be provided. **The afternoon session is FREE to attend, but preregistration is required. Transportation will depart from the main lobby.**

### **Pervious Concrete Demo at Southface Eco Office** **Departs Main Lobby**

**1:45 pm - 5:00 pm**

#### **Session Co-Moderators: Robin Houghton and Gordon Kenna**

A demonstration of pervious concrete will be done on the sidewalk and entry in front of the Southface Eco Office. The Southface Eco Office is an ICF construction building planned as a platinum LEED-certified structure. One objective of this demonstration is to obtain the City of Atlanta's approval of a specification for pervious pavement for sidewalks. **This demonstration is FREE, but you must preregister to attend. Transportation will depart from the main lobby.**

### **Faculty Network Reception**

**Crystal A&F**

Hosted by Committee E803

**5:00 pm - 6:00 pm**

Faculty members and students are invited to attend this informal reception where you'll have a chance to exchange ideas and network. Light hors d'oeuvres will be served.

### **Concrete Mixer at the Georgia Aquarium** **Departs Main Lobby beginning at 6:00 pm**

Don't miss this unforgettable evening! The Concrete Mixer will be held at the Georgia Aquarium. Set among exotic fish and fauna, this location is truly unique. Sponsored by the ACI Georgia Chapter, the aquarium will be open entirely and exclusively for Concrete Mixer attendees!

**You must have a name badge to attend the Concrete Mixer. Bags and purses are discouraged as you will be required to go through a security screening.**

**Shuttle transportation will depart from the main lobby. Shuttles will run continuously between the hotel and Georgia Aquarium beginning at 6:00 pm.**

# Special Events

## Wednesday, April 25, 2007

✓International Lunch

Cobb/Clayton

12:00 pm - 2:00 pm

\$44 U.S. per person

Hosted by the International Committee



**Speakers:** Fouad Yazbeck,  
Technical Director  
Readymix Abu Dhabi Ltd.  
Dubai, UAE



Rabih Fakhri,  
Admixtures Product Manager  
SODAP (Admixture Chemical Company)  
Dubai, UAE

**Topic:** High Durability Concrete in the Palm  
Jumeirah Project, Dubai, UAE

This is one of the most extensively engineered and designed projects in the world and is being built under extreme conditions due to the weather, temperatures as high as 110 °F, and location on fill in the Persian Gulf. The islands being developed had to have a 1,800-foot section of 6.83-mile breakwater constructed to keep waves from impeding the construction. The first 900-foot section took 8 months to build and consisted of dumped sand rubble and six-ton rocks. Global positioning satellites guided ships to the correct locations where they placed sand fill that was compacted by vibration. The finished area will include 32 hotels and will house approximately 120,000 residents in waterfront villas.

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

✓Separate Fee Required

# Special Events

## Thursday, April 26, 2007

✓ **Educational Seminar: Environmental** **Fayette/Newton**  
**Engineering Concrete Structures: Design and Details**

**8:00 am - 5:00 pm**

**ACI Member Rate: \$427 U.S.**

**Nonmember Rate: \$567 U.S.**

This 1-day seminar is based on the 2006 provisions of ACI 350 and ACI 350.3, and is for consulting engineers, private industrial firms, government agencies, material suppliers, testing agencies, academia, and contractors. You will become familiar with the design requirements of LCS, and design examples to illustrate practical applications will be presented. This seminar will also cover durability, joints, loads, serviceability, and the design of prestressed and non-prestressed members. Complimentary publications, valued at \$202.00, include: ACI 350-06, ACI 350.3-06, and Course Notes.

✓ Separate Fee Required

# Tours and Guest Events

## Sunday, April 22, 2007

- All tours depart from Court Street on the Tower side of the hotel.
- Tickets for tours may be purchased at the ACI Registration Desk, based on availability.

### Guest Overview

Board/Directors

8:00 am - 9:00 am

Acquaint yourself with the week ahead! You'll also get a preview of the guest programs for the ACI Fall 2007 Convention in Puerto Rico and the ACI Spring 2008 Convention in Los Angeles, CA.

### ✓ A Taste of the Peach

Departs Main Lobby

12:00 pm - 4:00 pm

\$60 U.S. per person

This gorgeous city tour will truly give you a "taste of the peach." Drive through Downtown, see the newly revitalized Midtown, and take a drive down world-famous Peachtree Street and through the exclusive Northside, one of Atlanta's premiere residential districts. Have lunch at historic Mary Mac's Tea Room.



*Photo courtesy of Rose Studio, Inc./AtlantaPhotos.com, ©2006*

✓ Separate Fee Required

# Tours and Guest Events

## Monday, April 23, 2007

- All tours depart from the main lobby.
- Tickets for tours may be purchased at the ACI Registration Desk, based on availability.

### ✓The Good Life in Historic Buckhead Departs Main Lobby

10:00 am - 3:00 pm

**\$87 U.S. per person**

Buckhead is Atlanta's premier residential and shopping district. Visit the Atlanta History Center, Tullie Smith House, and the recently opened Centennial Olympic Games Exhibit. Lunch will be served at the Historic Swan House. Don't miss this fashionably fun tour.

### Guest Tea Board/Directors

3:00 pm - 5:00 pm

All registered guests are cordially invited to join Mrs. Lizette Verti for afternoon tea. This is a great opportunity to spend time with other guests and to get to know one another.



*Olympia Sculpture—Midtown*

*Photo courtesy of Rose Studio, Inc./AtlantaPhotos.com,  
©2006*

✓ Separate Fee Required

# Tours and Guest Events

## Tuesday, April 24, 2007

- All tours depart from the main lobby.
- Tickets for tours may be purchased at the ACI Registration Desk, based on availability.

### ✓ Covington's Mansions and Magnolias Departs Main Lobby

9:30 am - 3:30 pm

**\$82 U.S. per person**

Be carried back to the time of mansions and magnolias. This tour will take you to the gorgeous suburb of Covington. These beautiful mansions may include Sandtown (c. 1840), a stately Antebellum brick house; Burge Plantation (c. 1809), a white-columned home filled with world-class collectables and treasures; and Mount Pleasant (c. 1830), a former plantation home surrounded by breathtaking gardens. Lunch will be served at Blue Willow Inn.



*Buckhead Antebellum*

*Photo courtesy of Rose Studio, Inc./AtlantaPhotos.com, ©2006*

✓ Separate Fee Required

# Tours and Guest Events

## Wednesday, April 25, 2007

- All tours depart from the main lobby.
- Tickets for tours may be purchased at the ACI Registration Desk, based on availability.

### ✓ Cultural Midtown Tour

Departs Main Lobby

9:00 am - 3:00 pm

\$75 U.S. per person

Start the day with a visit to the beautiful Atlanta Botanical Gardens, a showcase of the most beautiful and unusual flora in the region, located on a 60-acre site in Midtown's Piedmont Park. Then, feast your senses at the magnificent Dorothy Fugua Conservatory. Continue your cultural adventure by enjoying Atlanta's High Museum of Art, which contains the city's best collection of fine art in a spectacular setting. Lunch is optional at Table 1280 at the High Museum.



*Atlanta Botanical Gardens*



*High Museum of Art  
Photos courtesy of Rose Studio, Inc./  
AtlantaPhotos.com, ©2006*

✓ Separate Fee Required



# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Friday, April 20, 2007

**6:30 pm - 9:00 pm**

TAC Technical Activities M1 Cherokee

## Saturday, April 21, 2007

**7:00 am - 6:00 pm**

TAC Technical Activities M2 Douglas/Paulding

**8:00 am - 9:00 am**

TAC-RG1 TAC Review Group 1 M1 Douglas/Paulding

TAC-RG2 TAC Review Group 2 M1 Cobb

TAC-RG3 TAC Review Group 3 M1 Embassy

TAC-RG4 TAC Review Group 4 M1 Gwinnett

**8:00 am - 5:00 pm**

EAC Educational Activities M1 Dekalb

**1:00 pm - 6:00 pm**

301 Specifications M1 Gwinnett

**7:30 pm - 10:00 pm**

347-A Formwork Specification Fulton

## Sunday, April 22, 2007

**7:00 am - 8:00 am**

301-SC Spec Steering Committee Fayette

**7:00 am - 5:00 pm**

TAC Technical Activities M3 Monroe

**8:00 am - 9:00 am**

First-Time Convention Attendee Breakfast Forsythe  
Guest Overview Board/Directors

**8:00 am - 9:30 am**

440-TG FRP Specifications TG Jackson

**8:00 am - 10:00 am**

E801 Student Activities Carter

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Sunday, April 22, 2007—cont.

### 8:00 am - 11:00 am

TAC-RG1	TAC Review Group 1 M2	Monroe
TAC-RG2	TAC Review Group 2 M2	Jefferson
TAC-RG3	TAC Review Group 3 M2	Washington

### 8:30 am - 10:00 am

C660-TG	Examiner TG	Council
301	Specifications M2	Cherokee
341-C	Equake-Res Brdgs Retrofit	Clayton
342	Bridge Evaluation	Paulding
373	Prestressed/Tendons	Rockdale

### 8:30 am - 10:30 am

549-A	Thin Reinforced Premix GFRC	Crystal A&F
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### 8:30 am - 11:30 am

CLC	Construction Liaison	State
MEMC	Membership	Cabinet
315-B	Detailing Constructibility	Club
369	Seismic Rehab	Fulton
408	Bond & Development	Douglas

### 8:30 am - 1:00 pm

347	Formwork	Dekalb
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### 8:30 am - 5:00 pm

313	Bins & Silos	Roosevelt
355	Anchorage	Madison

### 9:00 am - 5:00 pm

376	RLG Containment Structures M1	Crystal C&D
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### 9:30 am - 10:30 am

546-B	Repair Material Selection Guide	Gwinnett
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### 9:30 am - 11:00 am

440-H	FRP Reinforced Concrete	Jackson
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### 9:30 am - 11:30 am

201-C	Durability Condition Report	Embassy
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Sunday, April 22, 2007—cont.

### 10:00 am - 11:30 am

E701	Materials for Concrete Construction	Carter
IC-Part	International Partnerships Committee	Council
341-D	Equake Res Brdgs Perf Based Seismic Design	Clayton
350-C	Env Str Reinf & Devel	Paulding

### 10:00 am - 1:00 pm

228	Nondestructive Testing	Newton
421	Reinf Slabs	Executive Boardroom

### 10:30 am - 11:30 am

546-C	Repair Guide	Gwinnett
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### 10:30 am - 1:30 pm

445-A	Shear & Torsn Strut & Tie	Cherokee
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### 10:30 am - 2:00 pm

549	Thin Reinforced	Crystal A&F
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### 11:00 am - 1:00 pm

345	Bridge Construction	Washington
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### 11:00 am - 2:00 pm

440-M	FRP Repair of Masonry Str	Jackson
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### 11:30 am - 1:00 pm

C631	Conc Transportation Const Insp	Forsythe
E706	Repair Application Procedures	Carter
HTC	Hot Topic	Club
221	Aggregates	Fulton
335	Composite Hybrid	Jefferson
341-A	Equake-Res Brdgs Columns	Clayton
350-SC	Env Str Steering Comm	Paulding
439-C	Steel Reinf Mech Bar Develop	State
506-A	Shotcreting Evaluation	Douglas
548-TG	Polymers TG	Rockdale

### 11:30 am - 3:30 pm

423	Prestressed	Gwinnett
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Sunday, April 22, 2007—cont.

### Tour

**12:00 pm - 4:00 pm**

✓A Taste of the Peach

Departs Main Lobby

**12:00 pm - 5:00 pm**

562 Eval, Repair & Rehab

Adams

**1:00 pm - 2:30 pm**

341-B Equake-Res Brdgs Pier Walls

Clayton

506-G Qualification of Nozzlemen

Jefferson

**1:00 pm - 3:00 pm**

IC-Conf International Conferences

State

IC-Mem International Membership

Council

**1:00 pm - 4:00 pm**

BAC-SD Board Advisory Committee on Sustainable Devlp Carter

**1:00 pm - 5:00 pm**

301-A Spec Gen Req. Definitions & Tolerances Forsythe

301-C Spec Placing Consolidating & Curing Paulding

301-D Spec Lightweight & Massive Concrete Dekalb

301-E Spec Prestressed Concrete Newton

301-G Spec Shrink Comp Conc & Ind Floor Slabs Rockdale

301-H Spec Tilt Up Constr & Arch Conc Fayette

305 Hot Weather Douglas

**1:00 pm - 5:00 pm**

Student FRP Composites Competition Galleria Exhibit

**2:00 pm - 3:30 pm**

370 Dynamic & Vibratory Effects Washington

439-A Steel Reinf Wire Fulton

**2:00 pm - 4:00 pm**

215 Fatigue Embassy

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Sunday, April 22, 2007—cont.

### 2:00 pm - 5:00 pm

RCC	Responsibility	Cobb
315	Detailing	Club
336	Footings	Crystal A&F
352	Joints	Executive Boardroom

### Sessions

#### 2:00 pm - 5:00 pm

Simplified Design of Reinforced Concrete Structures	Salon A
Seismic Strengthening of Concrete Buildings Using FRP Composites, Part 1	Salon B
*Enhancing Concrete Surfaces with Color and Texture	Salon C
Pervious Concrete Application and Design	Salon D
Recent Developments in Concrete with Slag Cement	Salon E

#### 2:30 pm - 3:30 pm

445-B	Shear & Torsn Seismic Shear	Clayton
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#### 2:30 pm - 3:30 pm

237-TG	Self-Consolidating Concrete Task Group	Cabinet
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#### 2:30 pm - 4:00 pm

506-B	Shotcreting Fiber Reinforced	Jefferson
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#### 2:30 pm - 5:00 pm

445-E	Shear & Torsn SOA Torsion	Cherokee
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#### 3:00 pm - 5:00 pm

E601	Seminar Oversight Committee	Council
341	Earthquake-Resistant Bridges	Jackson

#### 3:30 pm - 5:00 pm

IC-Cert	International Certification	State
121	Quality Assurance	Washington
201-A	Durability Sulfate Attack	Clayton
309	Consolidation	Gwinnett
423/445	Adhoc Grp on Shear in Prestress Conc	Cabinet
439-B	Steel Reinf Mechanical Splices	Fulton

#### 4:00 pm - 5:00 pm

123	Research	Jefferson
224	Cracking	Carter

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Sunday, April 22, 2007—cont.

**5:15 pm - 6:30 pm**

Opening Session and Awards Program

Grand Ballroom

**Approximately 6:30 pm - 7:30 pm**

Opening Reception

Galleria Exhibit

**7:30 pm - 10:00 pm**

Hot Topic Session: Cast-in-Place and Post-Installed

Anchors: What, When, and How

Salon A

## Monday, April 23, 2007

**6:30 am - 8:15 am**

Workshop for Technical Committee Chairs

Grand A

**7:00 am - 8:30 am**

Speakers Skills Training Breakfast

Grand C

**7:30 am - 8:30 am**

Chapter Forum: Successful Awards Programs

Crystal C&D

**8:00 am - 10:00 am**

PUBC Publications

Club

**8:15 am - 9:30 am**

440-G FRP Student

Roosevelt

**8:30 am - 10:00 am**

ACI 318/

ASCE7 ACI 318/ASCE7 Coordination

Clayton

E802 Teaching Methods and Educational Materials

Council

118 Computers

Fulton

124 Aesthetics

Adams

351-A Equip Fdns Static Fdns

Douglas

506-C Shotcreting Guide

Newton

523-A Cellular Autoclaved Aerated

Executive Boardroom

524 Plastering

Madison

544-B FRC Education

Gwinnett

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Monday, April 23, 2007—cont.

### 8:30 am - 11:30 am

CAC	Chapter Activities	Crystal C&D
C610	Field Technician Cert	Monroe
209	Creep & Shrinkage	Cabinet
237	Self Consolidating Concrete	Rockdale
311	Inspection	Embassy
318-TG7	TG7 Code Reorganization	Fayette
350-G&K	Env Str Tightness Testing/Haz Mat	Washington
437	Strength Evaluation	Cherokee
543	Piles	Forsythe
546	Repair	Crystal A&F
548-A	Polymers Overlays	Jackson

### 8:30 am - 12:30 pm

374	Seismic Design	Grand D
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### 8:30 am - 1:00 pm

301-B	Spec Formwork & Reinforcement	Cobb
301-F	Spec Precast Concrete Panels	Paulding
302	Floor Construction	Grand B
350-B	Env Str Durability	Jefferson

### 8:30 am - 2:00 pm

355-TG	Anchorage TG	Carter
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## Sessions

### 9:00 am - 12:00 pm

Experimental Analysis of Bridges Built with Prefabricated Bridge Elements: Laboratory and Field Observations	Salon E
Research in Progress	Salon A
Natural Fiber Cement Composites	Salon C
Jointing Design, Practices, and Performance	Salon D
Seismic Strengthening of Concrete Buildings Using FRP Composites, Part 2	Salon B

### 9:00 am - 1:00 pm

365	Service Life	Grand C
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### 9:30 am - 11:00 am

440-J	FRP Stay-in-Place Forms	Dekalb
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Monday, April 23, 2007—cont.

### 10:00 am - 11:30 am

E804 Educational Awards Nomination Committee Council

### 10:00 am - 12:00 pm

439 Steel Reinforcement Fulton

### 10:00 am - 1:00 pm

ITG-5 Precast Shearwalls for High Seismic Applications Club

207 Mass Concrete Douglas

216 Fire Resistance Madison

232-A Fly Ash Use of Nat Pozzolans Adams

343 Bridge Design Gwinnett

362-A Parking Str Standard Roosevelt

445-C Shear & Torsn Punching Shear Clayton

506-E Shotcreting Specifications Newton

523 Cellular Concrete Executive Boardroom

## Tour

### 10:00 am - 3:00 pm

✓ Good Life in Historic Buckhead Departs Main Lobby

### 11:00 am - 12:30 pm

440-K FRP Material Characteristics Dekalb

### 11:30 am - 12:30 pm

236-D Material Science-Nanotechnology of Concrete Rockdale

### 11:30 am - 1:00 pm

201-D Durability Oversight Committee Cherokee

211-D Proportioning High Strength Cabinet

304 Measuring/Mix/Trans/Placing Monroe

346 CIP Pipe Forsythe

544-A FRC Production & Applications Crystal A&F

548-C Polymers Str Design & Analysis Jackson

### 11:30 am - 2:00 pm

364-A Rehabilitation Evaluation Council

441 Columns Crystal C&D

447 Finite Element Analysis Fayette

552 Cementitious Grouting Embassy



# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Monday, April 23, 2007—cont.

### 11:30 am - 6:30 pm

350-D Env Str Structural Washington

### 12:00 pm - 2:00 pm

444 Experimental Analysis Fulton

### 12:00 pm - 2:00 pm

✓ Student Lunch Grand A

### 12:30 pm - 2:30 pm

C660 Shotcrete Nozzleman Cert Rockdale

### 1:00 pm - 2:30 pm

236-C Material Science Virtual Concrete Forsythe

548-B Polymers Sulfur Concrete Jackson

### 1:00 pm - 3:00 pm

ITG-6 High Strength Steel Reinforcement Crystal A&F

### 1:00 pm - 5:00 pm

MKTC Marketing Monroe

### 1:00 pm - 6:30 pm

350-E Env Str Precast/Prestressed Jefferson

### 1:30 pm - 3:00 pm

440-D FRP Research Grand D

### 2:00 pm - 3:00 pm

Convention Session Moderator Training Cabinet

### 2:00 pm - 3:30 pm

SCO Scholarship Council (ACI Foundation) Embassy

TAC-Code TAC Task Group on Code Relationship Club

231 Early Age Cobb

318-W Intl Workshop Planning Fayette

544-E FRC Mechanical Properties Gwinnett

### 2:00 pm - 4:00 pm

Nondestructive Evaluation Methods Demonstration Galleria Exhibit

### 2:00 pm - 4:30 pm

314 Simplified Design Buildings Grand B

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Monday, April 23, 2007—cont.

### 2:00 pm - 5:00 pm

232	Fly Ash & Natural Pozzolans	Cherokee
327	RCC Pavements	Clayton
349-C	Nuclear Str Anchorage	Paulding
351	Equip Foundations	Newton
362	Parking Structures	Roosevelt
364	Rehabilitation	Executive Boardroom
365-A	Service Life Std Model Development	Adams
376-TG	RLG Containment Structures TG	State

### Sessions

#### 2:00 pm - 5:00 pm

Recent Advances in Fatigue of Concrete and Composites	Salon B
Designing Concrete Structures for Fire Safety	Salon A
Precast/Prestressed Concrete Structural Systems for the Future	Salon C
Toys for Teaching	Salon D
SCC: Challenges and Solutions	Salon E

#### 2:00 pm - 6:00 pm

445	Shear & Torsion	Fulton
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#### 2:00 pm - 6:30 pm

212	Chemical Admixtures	Dekalb
301	Specifications M3	Grand C
360	Slabs on Ground	Madison

#### 2:30 pm - 4:00 pm

236-B	Material Science Permeation Methods	Forsythe
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#### 2:30 pm - 5:00 pm

506-F	Shotcreting Underground	Douglas
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#### 3:00 pm - 5:00 pm

Guest Tea	Board/Directors
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#### 3:00 pm - 6:00 pm

375	Design for Wind Loads	Rockdale
440-F	FRP Repair Strengthening	Grand D

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Monday, April 23, 2007—cont.

### 3:30 pm - 5:00 pm

IC-Pub	International Pubs/Website	Embassy
122	Thermal Properties	Cobb
214	Strength Tests	Jackson
318-S	Spanish Translation	Fayette

### 3:30 pm - 5:30 pm

446	Fracture Mechanics	Carter
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### 3:30 pm - 6:30 pm

TTCC	TAC Tolerances Coord. Comm.	Club
211-H	Proportioning Self Consolidating	Cabinet
544-D	FRC Structural Uses	Gwinnett

### 4:00 pm - 5:30 pm

236	Material Science	Forsythe
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### 5:00 pm - 6:00 pm

Women in ACI Reception		Crystal A&F
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### 5:00 pm - 6:30 pm

E702	Designing Concrete Structures	Embassy
SDC	Strategic Development Concil	Clayton
318-L	International Liaison	Fayette
334	Shells	Roosevelt
350-J	Env Str Education	Adams
435	Deflection	Paulding
555	Recycled	Jackson

### 5:00 pm - 7:00 pm

E703	Concrete Construction Practices	State
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### 6:30 pm - 7:30 pm

TAC 60th Anniversary Reception		Crystal C&D
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### 7:00 pm - 9:00 pm

Puerto Rico Convention Preview Reception		Grand A&B
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### 7:30 pm - 10:00 pm

123 Forum: Is This Concrete Durable Enough?	Salon A
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## Tuesday, April 24, 2007

### 6:30 am - 8:00 am

Educational Committee Chair Training Breakfast		Monroe
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Tuesday, April 24, 2007—cont.

### 7:00 am - 8:30 am

TTC TAC Technology Transfer Gwinnett

### 8:00 am - 9:30 am

332-B Residential Concrete Materials & Conc Requirements Crystal C&D

332-D Residential Concrete Footings & Foundation Walls Douglas

### 8:00 am - 10:00 am

230 Soil Cement Adams

238 Workability of Fresh Concrete State

440-L FRP Durability Grand D

### 8:00 am - 12:00 pm

EAC Educational Activities M2 Monroe

### 8:00 am - 1:00 pm

349-A&B Nuclear Str Design & Materials Executive Boardroom

### 8:30 am - 10:00 am

C620 Laboratory Tech Cert Forsythe

225 Hydraulic Cements Jefferson

325-A Pavements Design Roosevelt

548 Polymers Dekalb

### 8:30 am - 11:30 am

201 Durability Grand C

306 Cold Weather Embassy

357 Offshore & Marine Paulding

376 RLG Containment Structures M2 Council

506 Shotcreting Grand B

522 Pervious Concrete Fulton

### 8:30 am - 12:00 pm

IC International Committee Jackson

117 Tolerances Madison

### 8:30 am - 1:00 pm

318-B Reinforcement & Development Clayton

318-C Serviceability/Safety Fayette

318-D Flexure & Axial Loads Newton

318-G Prestressed Precast Rockdale

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Tuesday, April 24, 2007—cont.

### 8:30 am - 2:00 pm

307 Chimneys Cherokee

### 8:30 am - 6:30 pm

350-F Env Str Seismic Washington

### 9:00 am - 12:00 pm

TRRC TAC Repair & Rehab Club

### Sessions

#### 9:00 am - 12:00 pm

Avoiding Conflicts Between Contractors and Engineers Salon D

Results of NCHRP Projects on High Strength Concrete Salon A

Concrete Heat Development: Salon B

Monitoring and Evaluation, Part 1

Building Green with ICFs, Part 1 Salon C

Specifications Workshop Salon E

#### 9:30 am - 11:00 am

332-E Residential Concrete Above Grade Walls Crystal C&D

332-F Residential Concrete Slabs Douglas

### Tour

#### 9:30 am - 3:30 pm

✓ Covington Mansions and Magnolias Departs Main Lobby

#### 10:00 am - 11:30 am

C630 Construction Inspector Cert Forsythe

325-C Pavements Prestressed and Precast Roosevelt

350-H Env Str Editorial Jefferson

503 Adhesives Cabinet

#### 10:00 am - 12:00 pm

211-A Proportioning Editorial Adams

440-E FRP Prof Education Grand D

#### 10:00 am - 1:00 pm

371 Water Towers Dekalb

#### 10:30 am - 12:00 pm

544-F FRC Durability Gwinnett

# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Tuesday, April 24, 2007—cont.

### 11:00 am - 12:30 pm

332-A	Residential Concrete Scope, Definitions & References	Crystal C&D
332-C	Residential Concrete Production & Placement	Douglas

### 11:30 am - 1:00 pm

CRC	Concrete Research Council	Carter
211-E	Proportioning Evaluation	Cabinet
223-D	Shr Compensating Non-Reinforced Concrete or Mortar	State
348	Safety	Embassy

### 11:30 am - 2:00 pm

515	Protective Systems	Fulton
550	Precast Structures	Roosevelt

### 11:30 am - 3:30 pm

350-A	Env Str General & Concrete	Jefferson
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### 12:00 pm - 2:00 pm

✓Contractors' Day Lunch		Grand A
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### 12:30 pm - 2:00 pm

C640	Craftsman Cert	Forsythe
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### 12:30 pm - 3:30 pm

440	Fiber Reinforced Polymer	Grand D
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### 1:00 pm - 2:00 pm

E803	Faculty Network Coordinating	Cabinet
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### 2:00 pm - 3:30 pm

213	Lightweight	Council
234	Silica Fume	Cabinet
325-D	Proportioning for Pavements	Roosevelt
544-C	FRC Testing	Gwinnett

### 2:00 pm - 4:00 pm

372	Prestressed/Wire Wrapped Nondestructive Evaluation Methods Demonstration	Embassy Galleria Exhibit
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Tuesday, April 24, 2007—cont.

### 2:00 pm - 5:00 pm

CPC	Certification Programs	Monroe
116	Terminology & Notation	Adams
120	History	Douglas
222	Corrosion	Madison
223	Shrinkage Compensating	Grand B
229	Controlled Low Strength	Grand C
235	Electronic Data Exchange	Carter
332	Residential Concrete	Crystal C&D
349	Nuclear Structures	Fulton

### Sessions

#### 1:45 pm - 5:00 pm

Building Green with ICFs, Part 2:	Departs Main Lobby
Southface Eco Office Hard Hat Tour	
Pervious Concrete Demo at Southface Eco Office	Departs Main Lobby

### Sessions

#### 2:00 pm - 5:00 pm

Open Paper Session	Salon D
Blind Prediction of the Response of Building	Salon C
Beam-Column Joints to Earthquake Loading, Part 1	
Concrete Heat Development:	Salon B
Modeling and Prediction, Part 2	
Advances in Service Life Models that Consider	Salon A
Multiple Sources of Deterioration	
Seismic Analysis and Design of Bridge Foundations	Salon E

#### 2:00 pm - 6:00 pm

233	Ground Slag	Forsythe
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#### 2:00 pm - 6:30 pm

318-A	General Concrete Constr	Clayton
318-E	Shear & Torsion	Fayette
318-F	New Mat. Products & Ideas	Newton
318-H	Seismic Provision	Cherokee

#### 3:00 pm - 5:00 pm

CC	Convention Committee M2	Jackson
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#### 3:30 pm - 5:00 pm

363-A	High Strength State of the Art Report	Cabinet
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Tuesday, April 24, 2007—cont.

### 3:30 pm - 6:00 pm

544 Fiber Reinforced Concrete Grand D

### 3:30 pm - 6:30 pm

325 Pavements Roosevelt

350-L Env Str Specification Jefferson

### 5:00 pm - 6:00 pm

Faculty Network Reception Crystal A&F

### 6:30 pm - 10:00 pm

Concrete Mixer at the Georgia Aquarium Departs Main Lobby

## Wednesday, April 25, 2007

### 7:00 am - 10:00 am

TSC TAC Specifications Madison

ACI/ASCE ACI/ASCE Coordination Task Group Cherokee

### 8:30 am - 11:30 am

211 Proportioning Jackson

303 Architectural CIP Washington

308-B Curing Specifications Jefferson

330-TG Parking Lots & Paving Sites TG Roosevelt

363 High Strength Monroe

533 Precast Panels Dekalb

560 Design & Constr ICFs Gwinnett

### 8:30 am - 1:00 pm

318 Building Code M1 Grand B

### 8:30 am - 4:30 pm

359 Nuclear Reactors Fulton

### 8:30 am - 6:30 pm

350 Environmental Structures Paulding/Douglas

### 9:00 am - 12:00 pm

ACIFdn ACI Foundation (formally ConREF) Carter



# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Wednesday, April 25, 2007—cont.

### Sessions

#### 9:00 am - 12:00 pm

Recent Developments in the Use of Polymer Concrete and Materials	Salon A
Blind Prediction of the Response of Building Beam-Column Joints to Earthquake Loading, Part 2	Salon C
CLSM Technology Update: New and Innovative Uses	Salon E
Concrete Pedestrian Bridges	Salon D
Concrete with Recycled Materials, Part 1	Salon B

### Tour

#### 9:00 am - 3:00 pm

✓Cultural Midtown Tour	Departs Main Lobby
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#### 10:00 am - 11:30 am

C601-B Certified Quality Technical Mgr	Adams
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#### 11:30 am - 1:00 pm

C601-D Decorative Concrete Finisher	Adams
308-A Curing Guide	Jefferson

#### 12:00 pm - 2:00 pm

✓International Lunch	Cobb/Clayton
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#### 1:00 pm - 4:00 pm

330 Parking Lots & Site Paving	Roosevelt
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#### 1:30 pm - 4:00 pm

Student Electronic Mbrshp TG	Jefferson
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#### 2:00 pm - 5:00 pm

308 Curing	Jackson
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### Sessions

#### 2:00 pm - 5:00 pm

History of Concrete	Salon B
Use of Field-Measured Data for Strength Evaluation of Existing Structures	Salon A
Concrete with Recycled Materials, Part 2	Salon C

#### 2:00 pm - 6:30 pm

318 Building Code M2	Grand B
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# Program at a Glance

All schedule and location changes will be posted daily in the Galleria Exhibit Hall.

✓ Separate fee required

\*Theme Session

TG = Task Group

## Wednesday, April 25, 2007—cont.

**6:30 pm - 10:00 pm**

TAC-318      TAC RG/ACI 318

Fulton

## Thursday, April 26, 2007

**8:00 am - 5:00 pm**

✓Educational Seminar: Environmental Engineering      Fayette/Newton  
Concrete Structures: Design and Details

**10:00 am - 5:00 pm**

BOD      Board of Direction

Fulton/Cobb/Clayton

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
	Student Electronic Mbrshp TG	Wed	1:30 pm - 4:00 pm	Jefferson
ACI 318/ASCE7	ACI 318/ASCE7 Coordination	Mon	8:30 am - 10:00 am	Clayton
ACI/ASCE	ACI/ASCE Coordination Task Group	Wed	7:00 am - 10:00 am	Cherokee
ACIFdn	ACI Foundation (formerly ConREF)	Wed	9:00 am - 12:00 pm	Carter
BAC-SD	Board Advisory Committee on Sustainable Devlp	Sun	1:00 pm - 4:00 pm	Carter
BOD	Board of Direction	Thu	10:00 am - 5:00 pm	Fulton/Cobb/Clayton
C601-B	Certified Quality Technical Mgr	Wed	10:00 am - 11:30 am	Adams
C601-D	Decorative Concrete Finisher	Wed	11:30 am - 1:00 pm	Adams
C610	Field Technician Cert	Mon	8:30 am - 11:30 am	Monroe
C620	Laboratory Tech Cert	Tue	8:30 am - 10:00 am	Forsythe
C630	Construction Inspector Cert	Tue	10:00 am - 11:30 am	Forsythe
C631	Conc Transportation Const Insp	Sun	11:30 am - 1:00 pm	Forsythe
C640	Craftsman Cert	Tue	12:30 pm - 2:00 pm	Forsythe
C660	Shotcrete Nozzleman Cert	Mon	12:30 pm - 2:30 pm	Rockdale
C660-TG	Examiner TG	Sun	8:30 am - 10:00 am	Council
CAC	Chapter Activities	Mon	8:30 am - 11:30 am	Crystal C&D
CC	Convention Committee M2	Tue	3:00 pm - 5:00 pm	Jackson
CLC	Construction Liaison	Sun	8:30 am - 11:30 am	State
CPC	Certification Programs	Tue	2:00 pm - 5:00 pm	Monroe
CRC	Concrete Research Council	Tue	11:30 am - 1:00 pm	Carter
E601	Seminar Oversight Committee	Sun	3:00 pm - 5:00 pm	Council
E701	Materials for Concrete Construction	Sun	10:00 am - 11:30 am	Carter
E702	Designing Concrete Structures	Mon	5:00 pm - 6:30 pm	Embassy
E703	Concrete Construction Practices	Mon	5:00 pm - 7:00 pm	State

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
E706	Repair Application Procedures	Sun	11:30 am - 1:00 pm	Carter
E801	Student Activities	Sun	8:00 am - 10:00 am	Carter
E802	Teaching Methods and Educational Materials	Mon	8:30 am - 10:00 am	Council
E803	Faculty Network Coordinating	Tue	1:00 pm - 2:00 pm	Cabinet
E804	Educational Awards Nomination Committee	Mon	10:00 am - 11:30 am	Council
EAC	Educational Activities M1	Sat	8:00 am - 5:00 pm	Dekalb
EAC	Educational Activities M2	Tue	8:00 am - 12:00 pm	Monroe
HTC	Hot Topic	Sun	11:30 am - 1:00 pm	Club
IC	International Committee	Tue	8:30 am - 12:00 pm	Jackson
IC-Cert	International Certification	Sun	3:30 pm - 5:00 pm	State
IC-Conf	International Conferences	Sun	1:00 pm - 3:00 pm	State
IC-Mem	International Membership	Sun	1:00 pm - 3:00 pm	Council
IC-Part	International Partnerships Committee	Sun	10:00 am - 11:30 am	Council
IC-Pub	International Pubs/Website	Mon	3:30 pm - 5:00 pm	Embassy
ITG-5	Precast Shear Walls for High Seismic Applications	Mon	10:00 am - 1:00 pm	Club
ITG-6	High Strength Steel Reinforcement	Mon	1:00 pm - 3:00 pm	Crystal A&F
MEMC	Membership	Sun	8:30 am - 11:30 am	Cabinet
MKTC	Marketing	Mon	1:00 pm - 5:00 pm	Monroe
PUBC	Publications	Mon	8:00 am - 10:00 am	Club
RCC	Responsibility	Sun	2:00 pm - 5:00 pm	Cobb
SCO	Scholarship Council (ACI Foundation)	Mon	2:00 pm - 3:30 pm	Embassy
SDC	Strategic Development Council	Mon	5:00 pm - 6:30 pm	Clayton
TAC	Technical Activities M1	Fri	6:30 pm - 9:00 pm	Cherokee
TAC	Technical Activities M2	Sat	7:00 am - 6:00 pm	Douglas/Paulding
TAC	Technical Activities M3	Sun	7:00 am - 5:00 pm	Monroe
TAC-318	TAC RG/ACI 318	Wed	6:30 pm - 10:00 pm	Fulton

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
TAC Code	TAC Task Group on Code Relationship	Mon	2:00 pm - 3:30 pm	Club
TAC-RG1	TAC Review Group 1 M1	Sat	8:00 am - 9:00 am	Douglas/ Paulding
TAC-RG1	TAC Review Group 1 M2	Sun	8:00 am - 11:00 am	Monroe
TAC-RG2	TAC Review Group 2 M1	Sat	8:00 am - 9:00 am	Cobb
TAC-RG2	TAC Review Group 2 M2	Sun	8:00 am - 11:00 am	Jefferson
TAC-RG3	TAC Review Group 3 M1	Sat	8:00 am - 9:00 am	Embassy
TAC-RG3	TAC Review Group 3 M2	Sun	8:00 am - 11:00 am	Washington
TAC-RG4	TAC Review Group 4	Sat	8:00 am - 9:00 am	Gwinnett
TRRC	TAC Repair & Rehab	Tue	9:00 am - 12:00 pm	Club
TSC	TAC Specifications	Wed	7:00 am - 10:00 am	Madison
TTCC	TAC Tolerances Coord. Comm.	Mon	3:30 pm - 6:30 pm	Club
TTTC	TAC Technology Transfer	Tue	7:00 am - 8:30 am	Gwinnett
116	Terminology & Notation	Tue	2:00 pm - 5:00 pm	Adams
117	Tolerances	Tue	8:30 am - 12:00 pm	Madison
118	Computers	Mon	8:30 am - 10:00 am	Fulton
120	History	Tue	2:00 pm - 5:00 pm	Douglas
121	Quality Assurance	Sun	3:30 pm - 5:00 pm	Washington
122	Thermal Properties	Mon	3:30 pm - 5:00 pm	Cobb
123	Research	Sun	4:00 pm - 5:00 pm	Jefferson
124	Aesthetics	Mon	8:30 am - 10:00 am	Adams
201	Durability	Tue	8:30 am - 11:30 am	Grand C
201-A	Durability Sulfate Attack	Sun	3:30 pm - 5:00 pm	Clayton
201-C	Durability Condition Report	Sun	9:30 am - 11:30 am	Embassy
201-D	Durability Oversight Committee	Mon	11:30 am - 1:00 pm	Cherokee
207	Mass Concrete	Mon	10:00 am - 1:00 pm	Douglas
209	Creep & Shrinkage	Mon	8:30 am - 11:30 am	Cabinet
211	Proportioning	Wed	8:30 am - 11:30 am	Jackson
211-A	Proportioning Editorial	Tue	10:00 am - 12:00 pm	Adams
211-D	Proportioning High Strength	Mon	11:30 am - 1:00 pm	Cabinet
211-E	Proportioning Evaluation	Tue	11:30 am - 1:00 pm	Cabinet
211-H	Proportioning Self Consolidating	Mon	3:30 pm - 6:30 pm	Cabinet

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
212	Chemical Admixtures	Mon	2:00 pm - 6:30 pm	Dekalb
213	Lightweight	Tue	2:00 pm - 3:30 pm	Council
214	Strength Tests	Mon	3:30 pm - 5:00 pm	Jackson
215	Fatigue	Sun	2:00 pm - 4:00 pm	Embassy
216	Fire Resistance	Mon	10:00 am - 1:00 pm	Madison
221	Aggregates	Sun	11:30 am - 1:00 pm	Fulton
222	Corrosion	Tue	2:00 pm - 5:00 pm	Madison
223	Shrinkage Compensating	Tue	2:00 pm - 5:00 pm	Grand B
223-D	Shr Compensating Non-Reinforced Concrete or Mortar	Tue	11:30 am - 1:00 pm	State
224	Cracking	Sun	4:00 pm - 5:00 pm	Carter
225	Hydraulic Cements	Tue	8:30 am - 10:00 am	Jefferson
228	Nondestructive Testing	Sun	10:00 am - 1:00 pm	Newton
229	Controlled Low Strength	Tue	2:00 pm - 5:00 pm	Grand C
230	Soil Cement	Tue	8:00 am - 10:00 am	Adams
231	Early Age	Mon	2:00 pm - 3:30 pm	Cobb
232	Fly Ash & Natural Pozzolans	Mon	2:00 pm - 5:00 pm	Cherokee
232-A	Fly Ash Use of Nat Pozzolans	Mon	10:00 am - 1:00 pm	Adams
233	Ground Slag	Tue	2:00 pm - 6:00 pm	Forsythe
234	Silica Fume	Tue	2:00 pm - 3:30 pm	Cabinet
235	Electronic Data Exchange	Tue	2:00 pm - 5:00 pm	Carter
236	Material Science	Mon	4:00 pm - 5:30 pm	Forsythe
236-B	Material Science Permeation Methods	Mon	2:30 pm - 4:00 pm	Forsythe
236-C	Material Science Virtual Concrete	Mon	1:00 pm - 2:30 pm	Forsythe
236-D	Material Science-Nanotechnology of Concrete	Mon	11:30 am - 12:30 pm	Rockdale
237	Self Consolidating Concrete	Mon	8:30 am - 11:30 am	Rockdale
237-TG	Self-Consolidating Concrete Task Group	Sun	2:30 pm - 3:30 pm	Cabinet
238	Workability of Fresh Concrete	Tue	8:00 am - 10:00 am	State
301	Specifications M1	Sat	1:00 pm - 6:00 pm	Gwinnett

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
301	Specifications M2	Sun	8:30 am - 10:00 am	Cherokee
301	Specifications M3	Mon	2:00 pm - 6:30 pm	Grand C
301-A	Spec Gen Req. Definitions & Tolerances	Sun	1:00 pm - 5:00 pm	Forsythe
301-B	Spec Formwork & Reinforcement	Mon	8:30 am - 1:00 pm	Cobb
301-C	Spec Placing Consolidating & Curing	Sun	1:00 pm - 5:00 pm	Paulding
301-D	Spec Lightweight & Massive Concrete	Sun	1:00 pm - 5:00 pm	Dekalb
301-E	Spec Prestressed Concrete	Sun	1:00 pm - 5:00 pm	Newton
301-F	Spec Precast Concrete Panels	Mon	8:30 am - 1:00 pm	Paulding
301-G	Spec Shrink Comp Conc & Ind Floor Slabs	Sun	1:00 pm - 5:00 pm	Rockdale
301-H	Spec Tilt Up Constr & Arch Conc	Sun	1:00 pm - 5:00 pm	Fayette
301-SC	Spec Steering Committee	Sun	7:00 am - 8:00 am	Fayette
302	Floor Construction	Mon	8:30 am - 1:00 pm	Grand B
303	Architectural CIP	Wed	8:30 am - 11:30 am	Washington
304	Measuring/Mix/Trans/Placing	Mon	11:30 am - 1:00 pm	Monroe
305	Hot Weather	Sun	1:00 pm - 5:00 pm	Douglas
306	Cold Weather	Tue	8:30 am - 11:30 am	Embassy
307	Chimneys	Tue	8:30 am - 2:00 pm	Cherokee
308	Curing	Wed	2:00 pm - 5:00 pm	Jackson
308-A	Curing Guide	Wed	11:30 am - 1:00 pm	Jefferson
308-B	Curing Specifications	Wed	8:30 am - 11:30 am	Jefferson
309	Consolidation	Sun	3:30 pm - 5:00 pm	Gwinnett
311	Inspection	Mon	8:30 am - 11:30 am	Embassy
313	Bins & Silos	Sun	8:30 am - 5:00 pm	Roosevelt
314	Simplified Design Buildings	Mon	2:00 pm - 4:30 pm	Grand B
315	Detailing	Sun	2:00 pm - 5:00 pm	Club
315-B	Detailing Constructibility	Sun	8:30 am - 11:30 am	Club
318	Building Code M1	Wed	8:30 am - 1:00 pm	Grand B
318	Building Code M2	Wed	2:00 pm - 6:30 pm	Grand B
318-A	General Concrete Constr	Tue	2:00 pm - 6:30 pm	Clayton

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
318-B	Reinforcement & Development	Tue	8:30 am - 1:00 pm	Clayton
318-C	Serviceability/Safety	Tue	8:30 am - 1:00 pm	Fayette
318-D	Flexure & Axial Loads	Tue	8:30 am - 1:00 pm	Newton
318-E	Shear & Torsion	Tue	2:00 pm - 6:30 pm	Fayette
318-F	New Mat. Products & Ideas	Tue	2:00 pm - 6:30 pm	Newton
318-G	Prestressed Precast	Tue	8:30 am - 1:00 pm	Rockdale
318-H	Seismic Provisions	Tue	2:00 pm - 6:30 pm	Cherokee
318-L	International Liaison	Mon	5:00 pm - 6:30 pm	Fayette
318-S	Spanish Translation	Mon	3:30 pm - 5:00 pm	Fayette
318-TG7	TG7 Code Reorganization	Mon	8:30 am - 11:30 am	Fayette
318-W	Intl Workshop Planning	Mon	2:00 pm - 3:30 pm	Fayette
325	Pavements	Tue	3:30 pm - 6:30 pm	Roosevelt
325-A	Pavements Design	Tue	8:30 am - 10:00 am	Roosevelt
325-C	Pavements Prestressed and Precast	Tue	10:00 am - 11:30 am	Roosevelt
325-D	Proportioning for Pavements	Tue	2:00 pm - 3:30 pm	Roosevelt
327	RCC Pavements	Mon	2:00 pm - 5:00 pm	Clayton
330	Parking Lots & Site Paving	Wed	1:00 pm - 4:00 pm	Roosevelt
330-TG	Parking Lots & Site Paving Sites TG	Wed	8:30 am - 11:30 am	Roosevelt
332	Residential Concrete	Tue	2:00 pm - 5:00 pm	Crystal C&D
332-A	Residential Concrete Scope, Definitions & References	Tue	11:00 am - 12:30 pm	Crystal C&D
332-B	Residential Concrete Materials & Concrete Requirements	Tue	8:00 am - 9:30 am	Crystal C&D
332-C	Residential Concrete Production & Placement	Tue	11:00 am - 12:30 pm	Douglas
332-D	Residential Concrete Footings & Foundation Walls	Tue	8:00 am - 9:30 am	Douglas
332-E	Residential Concrete Above Grade Walls	Tue	9:30 am - 11:00 am	Crystal C&D
332-F	Residential Concrete Slabs	Tue	9:30 am - 11:00 am	Douglas



# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
334	Shells	Mon	5:00 pm - 6:30 pm	Roosevelt
335	Composite Hybrid	Sun	11:30 am - 1:00 pm	Jefferson
336	Footings	Sun	2:00 pm - 5:00 pm	Crystal A&F
341	Earthquake-Resistant Bridges	Sun	3:00 pm - 5:00 pm	Jackson
341-A	Equake-Res Bldgs Columns	Sun	11:30 am - 1:00 pm	Clayton
341-B	Equake-Res Bldgs Pier Walls	Sun	1:00 pm - 2:30 pm	Clayton
341-C	Equake-Res Bldgs Retrofit	Sun	8:30 am - 10:00 am	Clayton
341-D	Equake-Res Bldgs Perf Based Seismic Design	Sun	10:00 am - 11:30 am	Clayton
342	Bridge Evaluation	Sun	8:30 am - 10:00 am	Paulding
343	Bridge Design	Mon	10:00 am - 1:00 pm	Gwinnett
345	Bridge Construction	Sun	11:00 am - 1:00 pm	Washington
346	CIP Pipe	Mon	11:30 am - 1:00 pm	Forsythe
347	Formwork	Sun	8:30 am - 1:00 pm	Dekalb
347-A	Formwork Specification	Sat	7:30 pm - 10:00 pm	Fulton
348	Safety	Tue	11:30 am - 1:00 pm	Embassy
349	Nuclear Structures	Tue	2:00 pm - 5:00 pm	Fulton
349-A&B	Nuclear Str Design & Materials	Tue	8:00 am - 1:00 pm	Executive Boardroom
349-C	Nuclear Str Anchorage	Mon	2:00 pm - 5:00 pm	Paulding
350	Environmental Structures	Wed	8:30 am - 6:30 pm	Paulding/Douglas
350-A	Env Str General & Concrete	Tue	11:30 am - 3:30 pm	Jefferson
350-B	Env Str Durability	Mon	8:30 am - 1:00 pm	Jefferson
350-C	Env Str Reinf & Devel	Sun	10:00 am - 11:30 am	Paulding
350-D	Env Str Structural	Mon	11:30 am - 6:30 pm	Washington
350-E	Env Str Precast/Prestressed	Mon	1:00 pm - 6:30 pm	Jefferson
350-F	Env Str Seismic	Tue	8:30 am - 6:30 pm	Washington
350-G&K	Env Str Tightness Testing/Haz Mat	Mon	8:30 am - 11:30 am	Washington
350-H	Env Str Editorial	Tue	10:00 am - 11:30 am	Jefferson
350-J	Env Str Education	Mon	5:00 pm - 6:30 pm	Adams
350-L	Env Str Specification	Tue	3:30 pm - 6:30 pm	Jefferson
350-SC	Env Str Steering Comm	Sun	11:30 am - 1:00 pm	Paulding

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
351	Equip Foundations	Mon	2:00 pm - 5:00 pm	Newton
351-A	Equip Fdns Static Fdns	Mon	8:30 am - 10:00 am	Douglas
352	Joints	Sun	2:00 pm - 5:00 pm	Executive Boardroom
355	Anchorage	Sun	8:30 am - 5:00 pm	Madison
355-TG	Anchorage TG	Mon	8:30 am - 2:00 pm	Carter
357	Offshore & Marine	Tue	8:30 am - 11:30 am	Paulding
359	Nuclear Reactors	Wed	8:30 am - 4:30 pm	Fulton
360	Slabs on Ground	Mon	2:00 pm - 6:30 pm	Madison
362	Parking Structures	Mon	2:00 pm - 5:00 pm	Roosevelt
362-A	Parking Str Standard	Mon	10:00 am - 1:00 pm	Roosevelt
363	High Strength	Wed	8:30 am - 11:30 am	Monroe
363-A	High Strength State of the Art Report	Tue	3:30 pm - 5:00 pm	Cabinet
364	Rehabilitation	Mon	2:00 pm - 5:00 pm	Executive Boardroom
364-A	Rehabilitation Evaluation	Mon	11:30 am - 2:00 pm	Council
365	Service Life	Mon	9:00 am - 1:00 pm	Grand C
365-A	Service Life Std Model Development	Mon	2:00 pm - 5:00 pm	Adams
369	Seismic Rehab	Sun	8:30 am - 11:30 am	Fulton
370	Dynamic & Vibratory Effects	Sun	2:00 pm - 3:30 pm	Washington
371	Water Towers	Tue	10:00 am - 1:00 pm	Dekalb
372	Prestressed/Wire Wrapped	Tue	2:00 pm - 4:00 pm	Embassy
373	Prestressed/Tendons	Sun	8:30 am - 10:00 am	Rockdale
374	Seismic Design	Mon	8:30 am - 12:30 pm	Grand D
375	Design for Wind Loads	Mon	3:00 pm - 6:00 pm	Rockdale
376	RLG Containment Structures M1	Sun	9:00 am - 5:00 pm	Crystal C&D
376	RLG Containment Structures M2	Tue	8:30 am - 11:30 am	Council
376-TG	RLG Containment Structures TG	Mon	2:00 pm - 5:00 pm	State
408	Bond & Development	Sun	8:30 am - 11:30 am	Douglas
421	Reinf Slabs	Sun	10:00 am - 1:00 pm	Executive Boardroom
423	Prestressed	Sun	11:30 am - 3:30 pm	Gwinnett
423/445	Adhoc Grp on Shear in Prestress Conc	Sun	3:30 pm - 5:00 pm	Cabinet

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
435	Deflection	Mon	5:00 pm - 6:30 pm	Paulding
437	Strength Evaluation	Mon	8:30 am - 11:30 am	Cherokee
439	Steel Reinforcement	Mon	10:00 am - 12:00 pm	Fulton
439-A	Steel Reinf Wire	Sun	2:00 pm - 3:30 pm	Fulton
439-B	Steel Reinf Mechanical Splices	Sun	3:30 pm - 5:00 pm	Fulton
439-C	Steel Reinf Mech Bar Develop	Sun	11:30 am - 1:00 pm	State
440	Fiber Reinforced Polymer	Tue	12:30 pm - 3:30 pm	Grand D
440-D	FRP Research	Mon	1:30 pm - 3:00 pm	Grand D
440-E	FRP Prof Education	Tue	10:00 am - 12:00 pm	Grand D
440-F	FRP Repair Strengthening	Mon	3:00 pm - 6:00 pm	Grand D
440-G	FRP Student	Mon	8:15 am - 9:30 am	Roosevelt
440-H	FRP Reinforced Concrete	Sun	9:30 am - 11:00 am	Jackson
440-J	FRP Stay-in-Place Forms	Mon	9:30 am - 11:00 am	Dekalb
440-K	FRP Material Characteristics	Mon	11:00 am - 12:30 pm	Dekalb
440-L	FRP Durability	Tue	8:00 am - 10:00 am	Grand D
440-M	FRP Repair of Masonry Str	Sun	11:00 am - 2:00 pm	Jackson
440-TG	FRP Specifications TG	Sun	8:00 am - 9:30 am	Jackson
441	Columns	Mon	11:30 am - 2:00 pm	Crystal C&D
444	Experimental Analysis	Mon	12:00 pm - 2:00 pm	Fulton
445	Shear & Torsion	Mon	2:00 pm - 6:00 pm	Fulton
445-A	Shear & Torsn Strut & Tie	Sun	10:30 am - 1:30 pm	Cherokee
445-B	Shear & Torsn Seismic Shear	Sun	2:30 pm - 3:30 pm	Clayton
445-C	Shear & Torsn Punching Shear	Mon	10:00 am - 1:00 pm	Clayton
445-E	Shear & Torsn SOA Torsion	Sun	2:30 pm - 5:00 pm	Cherokee
446	Fracture Mechanics	Mon	3:30 pm - 5:30 pm	Carter
447	Finite Element Analysis	Mon	11:30 am - 2:00 pm	Fayette
503	Adhesives	Tue	10:00 am - 11:30 am	Cabinet
506	Shotcreting	Tue	8:30 am - 11:30 am	Grand B
506-A	Shotcreting Evaluation	Sun	11:30 am - 1:00 pm	Douglas

# Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
506-B	Shotcreting Fiber Reinforced	Sun	2:30 pm - 4:00 pm	Jefferson
506-C	Shotcreting Guide	Mon	8:30 am - 10:00 am	Newton
506-E	Shotcreting Specifications	Mon	10:00 am - 1:00 pm	Newton
506-F	Shotcreting Underground	Mon	2:30 pm - 5:00 pm	Douglas
506-G	Qualification of Nozzlemen	Sun	1:00 pm - 2:30 pm	Jefferson
515	Protective Systems	Tue	11:30 am - 2:00 pm	Fulton
522	Pervious Concrete	Tue	8:30 am - 11:30 am	Fulton
523	Cellular Concrete	Mon	10:00 am - 1:00 pm	Executive Boardroom
523-A	Cellular Autoclaved Aerated	Mon	8:30 am - 10:00 am	Executive Boardroom
524	Plastering	Mon	8:30 am - 10:00 am	Madison
533	Precast Panels	Wed	8:30 am - 11:30 am	Dekalb
543	Piles	Mon	8:30 am - 11:30 am	Forsythe
544	Fiber Reinforced Concrete	Tue	3:30 pm - 6:00 pm	Grand D
544-A	FRC Production & Applications	Mon	11:30 am - 1:00 pm	Crystal A&F
544-B	FRC Education	Mon	8:30 am - 10:00 am	Gwinnett
544-C	FRC Testing	Tue	2:00 pm - 3:30 pm	Gwinnett
544-D	FRC Structural Uses	Mon	3:30 pm - 6:30 pm	Gwinnett
544-E	FRC Mechanical Properties	Mon	2:00 pm - 3:30 pm	Gwinnett
544-F	FRC Durability	Tue	10:30 am - 12:00 pm	Gwinnett
546	Repair	Mon	8:30 am - 11:30 am	Crystal A&F
546-B	Repair Material Selection Guide	Sun	9:30 am - 10:30 am	Gwinnett
546-C	Repair Guide	Sun	10:30 am - 11:30 am	Gwinnett
548	Polymers	Tue	8:30 am - 10:00 am	Dekalb
548-A	Polymers Overlays	Mon	8:30 am - 11:30 am	Jackson
548-B	Polymers Sulfur Concrete	Mon	1:00 pm - 2:30 pm	Jackson
548-C	Polymers Str Design & Analysis	Mon	11:30 am - 1:00 pm	Jackson
548-TG	Polymers TG	Sun	11:30 am - 1:00 pm	Rockdale
549	Thin Reinforced	Sun	10:30 am - 2:00 pm	Crystal A&F

# Numerical Committee Meeting Listing

<b>Code</b>	<b>Committee</b>	<b>Day</b>	<b>Time</b>	<b>Room Name</b>
549-A	Thin Reinforced Premix GFRC	Sun	8:30 am - 10:30 am	Crystal A&F
550	Precast Structures	Tue	11:30 am - 2:00 pm	Roosevelt
552	Cementitious Grouting	Mon	11:30 am - 2:00 pm	Embassy
555	Recycled	Mon	5:00 pm - 6:30 pm	Jackson
560	Design & Constr ICFs	Wed	8:30 am - 11:30 am	Gwinnett
562	Eval, Repair & Rehab	Sun	12:00 pm - 5:00 pm	Adams

# Notes

# Sunday, April 22, 2007

## 8:00 am - 9:00 am

**First-Time Convention Attendee Breakfast**

**Forsythe**

Sponsored by the ACI Convention Committee

First-time convention attendees are invited to join William E. Rushing Jr., Chair of the ACI Convention Committee, for a continental breakfast and a brief session to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI convention has to offer.



*Cater Center*

*Photo courtesy of Rose Studio, Inc./AtlantaPhotos.com, ©2006*

# Sunday, April 22, 2007

## 1:00 pm - 5:00 pm

**Student FRP Composites Competition**

**Galleria Exhibit**

Sponsored by Committee E801 and the ACI Georgia Chapter

**Session Co-Moderators:** John J. Myers  
Assistant Professor  
University of Missouri-Rolla  
Rolla, MO

Vicki L. Brown  
Associate Professor and Chairman  
Widener University  
Chester, PA

Don't miss this exciting competition! Stop by and cheer on your favorite team! Students will design, construct, and test a concrete structure reinforced with fiber-reinforced polymer (FRP) bars to achieve the optimal load-to-weight ratio, predict the ultimate load, and predict the load that will result in a piston reflection of 2.5 mm (0.1 in.).

**Thank you to Accu-Cal for donating calibration  
of the testing device**

***Accu-Cal, Inc.***  
Calibration and Repair of Materials Testing Equipment



# Sunday, April 22, 2007

## 2:00 pm - 5:00 pm

**Simplified Design of Reinforced Concrete Structures**

**Salon A**

Sponsored by Committee 314

**Session Co-Moderators:**

W. Gene Corley  
Senior Vice President  
CTLGroup  
Skokie, IL

JoAnn P. Browning  
Associate Professor  
University of Kansas  
Civil, Environmental and Architectural  
Engineering  
Lawrence, KS

**Design of 16-Story Hotel According to ACI 318-05:**

**2:05 pm**

**A Case Study**

**David A. Fanella**, Senior Consultant, Klein and Hoffman Inc.,  
Chicago, IL

**Design of 6-Level Post-Tensioned Parking Structure:**

**2:35 pm**

**A Case Study**

**S.K. Ghosh**, President, S.K. Ghosh Associates Inc., Palatine, IL

**Design of 6-Story Parking Garage on**

**3:05 pm**

**Caissons with Post-Tensioned Beam and Slab: A Case Study**

**Frank S. Malits**, Principal, Cagley and Associates, Rockville, MD

**IPS-1, Essential Requirements for Reinforced**

**3:35 pm**

**Concrete Buildings: Past, Present, and Future**

**José M. Izquierdo-Encarnacion**, Principal, PORTICUS, San Juan, PR

**Design Aids for ACI 318-05**

**4:05 pm**

**David A. Fanella**, Senior Consultant, Klein and Hoffman Inc.,  
Chicago, IL

**Preliminary Design and Economic Impact of Simplified**

**4:35 pm**

**Design of RC Structures**

**Michael C. Mota**, Regional Engineering Manager-East, Portland  
Cement Association, Williamstown, NJ, and **James S. Lai**, SE, La  
Canada, CA

# Sunday, April 22, 2007

## 2:00 pm - 5:00 pm

**Seismic Strengthening of Concrete Buildings  
Using FRP Composites, Part 1**

**Salon B**

Sponsored by Committee 440-F

**Co-Moderators:**

Pedro Silva  
Assistant Professor  
George Washington University  
Washington, DC

Tarek Alkhrdaji  
Structural Engineer  
Structural Group  
Elkridge, MD

**Seismic Retrofit of Reinforced Concrete Beam-Column  
Joints and Bridge Piers with FRP Composite Jackets** 2:05 pm

**Chris P. Pantelides**, Associate Professor, University of Utah, Salt Lake City, UT, and **Janos Gergely**, University North Carolina at Charlotte

**Structural Upgrade of Reinforced Concrete Moment Frame  
Connections Using FRP Composites** 2:35 pm

**Ayman S. Mosallam**, Professor, University of California at Irvine, Irvine, CA

**Providing External Confinement to Flexure Members  
to Improve Ductility—The Good, the Bad, and the Ugly** 3:05 pm

**Andrew Budek**, Assistant Professor, SW Texas State University, San Marcos, TX

**Seismic Upgrade of RC Structures Using Innovative Materials** 3:35 pm

**Andrea Prota**, Assistant Professor, University of Naples, Naples, Italy, and **Gaetano Manfredi**, University of Naples

**Nonlinear Analysis of Reinforced Concrete Beam-Columns  
with Bond Slip** 4:05 pm

**Ashraf Ayoub**, Associate Professor, University of Missouri, Rolla, MO

**Implementation of Performance-Based Retrofit  
Strategies and Solutions for Pre-1970 Reinforced  
Concrete Buildings Using FRP Composites** 4:35 pm

**Stefano Pampanin**, Associate Professor, University of Canterbury, Christchurch, New Zealand

# Sunday, April 22, 2007

## 2:00 pm - 5:00 pm

**\*Enhancing Concrete Surfaces with Color and Texture**

**Salon C**

Sponsored by Committee 124

**Session Moderator:**

Michael Johannes Paul  
Senior Consultant  
Duffield Associates, Inc.  
Philadelphia, PA

**Introduction**

**2:00 pm**

**Michael Johannes Paul**, Senior Consultant, Duffield Associates, Inc., Philadelphia, PA

**Concrete Hardscape—Aesthetic Possibilities**

**2:05 pm**

**Kimberly Kramer**, Assistant Professor, Kansas State University, Manhattan, KS, and **Luke I. Amey**, Kansas State University

**Micro Etch Surface Retarders for Decorative Concrete**

**2:30 pm**

**Christian A. Forgey**, Market Manager Residential, Grace Construction Products, Cambridge, MA

**Developing Colors and Finishes for Architectural Precast Concrete**

**2:55 pm**

**Brian D. Miller**, Director Engineering and Technology, Precast/Prestressed Concrete Institute, Chicago, IL

**Creating Smooth Concrete Surfaces with Patching Compounds**

**3:20 pm**

**Michael T. Chusid**, Principal, Chusid Associates, Tarzana, CA

**Texture and Color in Concrete for Museums, Churches, and Concert Halls**

**3:45 pm**

**Joseph V. Nasvik**, Senior Editor, Concrete Construction and Residential Concrete, Hanley-Wood LLC, Addison, IL, and **William D. Palmer**, Complete Construction Consultants, LLC

**Aesthetics—A Value-Added Concept**

**4:10 pm**

**Fred Colin**, Area Manager, Solomon Colors, Springfield, IL

**Design of a Translucent Concrete**

**4:35 pm**

**Sergio Omar Galvan Cazares**, Concretos Translucidos, Mexico City, Distrito Federal Mexico

\* = theme session

# Sunday, April 22, 2007

## 2:00 pm - 5:00 pm

**Pervious Concrete Application and Design**

**Salon D**

Sponsored by the ACI Georgia Chapter

**Session Co-Moderators:**

Gary Knight  
Manager of Concrete Research and  
Support  
Heidelberg Cement Technology Center  
Atlanta, GA

Nicholas F. "Nick" Maloof  
General Manager of Technical Promotion  
Thomas Concrete Industries  
Atlanta, GA

**Material Property Research of Field-Placed Pervious Concrete Specimens** **2:05 pm**

**Liv Haselbach**, Assistant Professor, University of South Carolina, Columbia, SC

**Enhanced Pervious Concrete Placement Using a Unique Admixture System** **2:35 pm**

**Mark A. Bury**, Senior Product Manager, BASF Admixtures Inc., Beachwood, OH, and **Robert J. Ryan**, BASF Admixtures Inc.

**10 Things to Avoid for Pervious Concrete Success** **3:05 pm**

**John T. Kevern**, PhD Student, Iowa State University, Ames, IA

**Fiber-Reinforced Pervious Concrete** **3:35 pm**

**Gregory Dale Moody**, Technical Services Representative, CEMEX USA, Orlando, FL

**Mix Proportioning of Pervious Concrete** **4:05 pm**

**John T. Kevern**, PhD Student, Iowa State University, Ames, IA, and **Kejin Wang**, Iowa State University

**The Future of Pervious Concrete** **4:35 pm**

**Matthew A. Offenber**g, Market Development Manager, Rinker, Cocoa, FL

# Sunday, April 22, 2007

## 2:00 pm - 5:00 pm

**Recent Developments in Concrete with Slag Cement**

**Salon E**

Sponsored by Committee 233

**Session Moderator:**

Darrell F. Elliot  
Technical Service Manager  
BUZZI Unicem USA  
La Place, LA

**Fast Track Construction with Slag Cement Concretes**

**2:05 pm**

**Marios N. Soutsos**, Lecturer Civil Engineering, The University of Liverpool, Liverpool, UK

**Effect of Slag Cement on the Drying Shrinkage of Concrete**

**2:40 pm**

**R. Doug Hooton**, Professor, University of Toronto, Toronto, ON, Canada

**Life Cycle Inventory of Slag Cement Concrete**

**3:15 pm**

**Jan R. Prusinski**, Executive Director, Slag Cement Association, Sugar Land, TX

**Effect of Curing Temperature on Concrete Containing Slag Cement and Fly Ash in Ternary Mixtures**

**3:50 pm**

**William M. Hale**, Assistant Professor, University of Arkansas, Fayetteville, AR

**Use of Gypsum to Counteract the Effects of High Alumina Contents in Asian Slags**

**4:25 pm**

**Gordon R. McLellan**, Technical Manager, Hanson Slag Cement, Cape Canaveral, FL

# Sunday, April 22, 2007

## 5:15 pm - 6:30 pm

**Opening Session and Awards Program**

**Grand Ballroom**

The ACI Spring 2007 Convention officially begins at the Opening Session. During the session, ACI will recognize over 60 individuals and groups for their contributions to ACI and achievements in the concrete industry.



# Sunday, April 22, 2007

## Approx. 6:30 pm - 7:30 pm

### Opening Reception

### Galleria Exhibit

After the Opening Session, meet your colleagues, friends, and the exhibitors for a beverage from the cash bar and light refreshments in the exhibit area. Don't miss this networking opportunity before heading out to Atlanta's unique restaurants.



# Sunday, April 22, 2007

## 7:30 pm - 10:00 pm

**Hot Topic Session: Cast-in-Place and Post-Installed  
Anchors: What, When, and How**

**Salon A**

Sponsored by the ACI Georgia Chapter and Hot Topic Committee

**Session Moderator:** Kirk K. Deadrick  
Director of Quality Assurance  
Lafarge AC&A  
Alpharetta, GA

In this session, speakers will discuss cast-in-place and post-installed (mechanical and chemical) anchoring to concrete, including the types of anchors available, their qualification, design, and use. Installation recommendations and precautions of special interest to the designer and contractor will be discussed. Items to be considered in anchor selection and design, such as provision for redundancy, are also covered.

**Chemical & Mechanical Anchors Features/Benefits** **7:35 pm**

**John F. Silva**, Director Codes and Approvals, Hilti North America,  
San Rafael, CA

**Installation Recommendations/Precautions** **8:15 pm**

**Lee W. Mattis**, Vice President, CEL Consulting, Oakland, CA

**Selecting and Designing for an Anchoring System** **8:55 pm**

**Ronald A. Cook**, Professor, University of Florida, Gainesville, FL

*Refreshments will be available courtesy of the ACI Georgia Chapter.*



# Monday, April 23, 2007

## 6:30 am - 8:15 am

**Workshop for Technical Committee Chairs**

**Grand A**

Sponsored by the ACI Technical Activities Committee

**Session Moderator:** Michael E. Kreger  
Professor  
School of Civil Engineering and Director,  
Bowen Laboratory for Large-Scale Civil  
Engineering Research  
Purdue University  
West Lafayette, IN

ACI Technical Committee Chairs are invited to attend this breakfast workshop for an opportunity to meet with fellow Chairs, TAC members, and ACI staff. There will be table discussions and short presentations on recent developments of interest to ACI technical committee Chairs. All ACI technical committee Chairs are expected to be at this workshop. If you are unable to attend, please ask the Secretary or another committee member to represent you in your absence.

**Breakfast** **6:30 am**

**Introduction** **7:05 am**

**Michael E. Kreger**, Professor, School of Civil Engineering, and Director, Bowen Laboratory for Large-Scale Civil Engineering Research, Purdue University, West Lafayette, IN

**TAC Update** **7:10 am**

**Ronald G. Burg**, Chair, Technical Activities Committee, and Vice President, Construction Technology Labs, Inc., Skokie, IL

**Incoming President's Welcome** **7:15 am**

**David Darwin**, Deane E. Ackers Distinguished Professor of Civil, Environmental, and Architectural Engineering, University of Kansas, Lawrence, KS

**TCM Changes—Balance of Interest** **7:25 am**

**David H. Sanders**, Professor of Civil and Environmental Engineering, University of Nevada, Reno, NV

**Rules of Balloting** **7:40 am**

**Miroslav F. Vejvoda**, Staff Engineer, American Concrete Institute, Farmington Hills, MI

# **Monday, April 23, 2007**

## **6:30 am - 8:15 am—cont.**

**Workshop for Technical Committee Chairs**

**Grand A**

**Table Discussions with TAC Contact**

**7:55 am**

**Adjourn**

**8:15 am**

**Michael E. Kreger**, Professor, School of Civil Engineering, and Director,  
Bowen Laboratory for Large-Scale Civil Engineering Research,  
Purdue University, West Lafayette, IN

# Monday, April 23, 2007

## 7:00 am - 8:30 am

**Speakers Skills Training Breakfast**

**Grand C**

Sponsored by Committee E802

**Session Moderator:**

Kimberly E. Kurtis  
Associate Professor  
Georgia Institute of Technology  
Atlanta, GA

**Improving PowerPoint Presentations**

**7:03 am**

**Lisa Rosenstein**, Georgia Institute of Technology, Atlanta, GA

# Monday, April 23, 2007

## 7:30 am - 8:30 am

**Chapter Forum: Successful Awards Programs**

**Crystal C&D**

Sponsored by the Chapter Activities Committee

**Session Moderator:** Andrea J. Schokker  
Henderson Professor/Civil Engineering  
The Pennsylvania State University  
University Park, PA

Many ACI chapters celebrate significant concrete projects in their area with project awards. The awards provide important publicity for the concrete construction community. Representatives from three ACI chapters will discuss their approach to administering their awards programs. This session will be of interest to chapters with awards programs as well as those wishing to establish a project awards program.

# Monday, April 23, 2007

## 9:00 am - 12:00 pm

**Experimental Analysis of Bridges Built with Prefabricated Bridge Elements: Laboratory and Field Observations** Salon E

Sponsored by Committee 444

**Session Co-Moderators:** Sameh S. Badie  
Assistant Professor  
George Washington University  
Washington, DC

Mohsen Issa  
Professor  
University of Illinois  
Chicago, IL

**Accelerated Bridge Construction Using Prefabrication: Why, When, and How?** 9:05 am

**Rajkumar Ailaney**, Senior Structural Engineer, FHWA Resource Center, Baltimore, MD

**Efficient Full-Depth Bridge Deck Panels Connection Details** 9:30 am

**Amgad Girgis**, Research Assistant Professor, University of Nebraska, Omaha, NE; **Maher K. Tadros**, University of Nebraska-Lincoln; and **Sameh S. Badie**, George Washington University

**Full-Scale Tests of Precast Bridge Deck Panels on Precast I-Girders** 10:00 am

**Carin Roberts-Wollman**, Associate Professor, Virginia Polytechnic Institute and State University, Blacksburg, VA, and **Sean Sullivan**, Virginia Polytechnic Institute

**Research and Construction Case Study: Interstate Highway Bridge Precast Full-Depth Deck Panels** 10:30 am

**Michael G. Oliva**, Professor, University of Wisconsin, Madison, WI; Lawrence C. Bank, and **Jeffrey S. Russell**, University of Wisconsin; **F. Ehmke**, Strand Association; and **F. Hubbard** and **S. Becker**, Wisconsin DOT

**Non-Prestressed Panel-to-Panel Connection Details for Full-Depth Precast Deck Panels** 11:00 am

**Sameh S. Badie**, Assistant Professor, George Washington University, Washington, DC, and **Amgad F. Morgan** and **Maher K. Tadros**, University of Nebraska-Lincoln

# **Monday, April 23, 2007**

## **9:00 am - 12:00 pm—cont.**

**Experimental Analysis of Bridges Built with Prefabricated Bridge Elements: Laboratory and Field Observations** Salon E

**Critical Measures for a Successful Implementation of Full-Depth Precast Concrete Bridge Deck Panel System** 11:30 am  
**Mohsen A. Issa**, Professor, University of Illinois, Chicago, IL

# Monday, April 23, 2007

## 9:00 am - 12:00 pm

**Research in Progress**

**Salon A**

Sponsored by Committee 123

**Session Co-Moderators:** Farshad Rajabipour  
School of Civil Engineering  
Purdue University  
West Lafayette, IN

Akhter Hossain  
Assistant Professor  
University of South Alabama  
Mobile, AL

**Introduction** **9:00 am**  
**Farshad Rajabipour**, School of Civil Engineering, Purdue University,  
West Lafayette, IN

**Presentation by James Instrument Award Recipient** **9:01 am**

**Construction Experiences with Low-Cracking** **9:15 am**  
**High-Performance Concrete (LCHPC) Bridge Decks in Kansas**  
**Heather A. McLeod**, Department of Civil, Environmental and  
Architectural Engineering, University of Kansas, Lawrence, KS,  
and **Will D. Lindquist**, **David Darwin**, and **JoAnn P. Browning**,  
University of Kansas

**Characterization and Use of Rice Husk Ash as a** **9:30 am**  
**Pozzolanic Material in Portland Cement Concretes**  
**David W. Wingard**, Clemson University, Clemson, SC; **Prasad R.**  
**Rangaraju**, Clemson University; and **Rajan K. Vempati**, ChK Group

**Effect of Mineral Admixtures and Aggregate Type** **9:45 am**  
**on Free Shrinkage**  
**Will D. Lindquist**, Student, University of Kansas, Lawrence, KS,  
and **Heather A. McLeod**, **David Darwin**, and **JoAnn P. Browning**,  
University of Kansas

**Sorptivity and Freeze/Thaw Resistance of** **10:00 am**  
**Roller-Compacted Concrete**  
**Chetan V. Hazaree**, Graduate Student, Iowa State University, Ames,  
IA, and **Kejin Wang** and **Halil Ceylan**, Iowa State University

# Monday, April 23, 2007

## 9:00 am - 12:00 pm—cont.

### Research In Progress

Salon A

#### Establishing Limits for Electrical Tests of Concrete Permeability

10:15 am

**Enrique Vivas**, PhD Student and Research Assistant, University of Florida, Gainesville, FL; **H.R. Trey Hamilton**, University of Florida; and **Andrew J. Boyd**, McGill University

#### Effect of Concrete Surface Preparation on the Bond Behavior of CFRP Sheets

10:30 am

**Baris Yalim**, Student, Florida International University, Miami, FL, and **Ahmet Kalayci** and **Amir Mirmiran**, Florida International University

#### Closed Form Solutions for Moment Curvature Diagram of Homogenized Fiber-Reinforced Concrete

10:45 am

**Chote Soranakom**, Research Assistant, Arizona State University, Tempe, AZ, and **Barzin Mobasher**, Arizona State University

#### Coordinated Research on Bond of ASTM A 1035 Reinforcement: First Progress Report

11:00 am

**Paul Zia**, Distinguished University Professor, North Carolina State University; **Sami H. Rizkalla**, North Carolina State University; **David Darwin** and **JoAnn P. Browning**, University of Kansas; and **James O. Jirsa**, University of Texas at Austin

#### Anchorage Zone Design for PCBT Bridge Girders in Virginia

11:15 am

**Eric Crispino**, Graduate Student, Virginia Tech University, Blacksburg, VA; **Rodney T. Davis**, Virginia Department of Transportation; and **Carin L. Roberts-Wollmann** and **Thomas E. Cousins**, Virginia Tech University

#### Strength and Serviceability of Prestressed SCC Bridge Girders Made with Quartzite Aggregates

11:30 am

**Nadim I. Wehbe**, Assistant Professor, South Dakota State University, Brookings, SD, and **Arden B. Sigl** and **Jason J. Zemlicka**, South Dakota State University

#### Top Strand Effect

11:45 am

**Chris Carroll**, Graduate Research Assistant, Virginia Tech University, Blacksburg, VA; and **Carin L. Roberts-Wollmann** and **Thomas E. Cousins**, Virginia Tech University



# Monday, April 23, 2007

## 9:00 am - 12:00 pm

**Natural Fiber Cement Composites**

**Salon C**

Sponsored by Committee 236

**Session Co-Moderators:** Joseph J. Biernacki  
Associate Professor  
Tennessee Technological University  
Cookeville, TN

Kimberly E. Kurtis  
Associate Professor  
Georgia Institute of Technology  
Atlanta, GA

**Durability of Cellulose FRC and Service Life Predictions** 9:05 am  
**Nemkumar Banthia**, Professor, University of British Columbia,  
Vancouver, BC, Canada, and **Ashish Bhargava**, Parsons Brinkerhoff Ltd

**Supplementary Cementitious Materials for Mitigating** 9:25 am  
**Kraft Pulp Fiber-Cement Composite Degradation**  
**Benjamin J. Mohr**, Assistant Professor, Tennessee Technological  
University, Cookeville, TN; **Joseph J. Biernacki**, Tennessee Technological  
University; and **Kimberly E. Kurtis**, Georgia Institute of Technology

**Freeze-Thaw, Average Residual Strength, Static, and** 9:45 am  
**Fatigue Loading of Natural Fiber**  
**Heather J. Brown**, Assistant Professor, Middle Tennessee State  
University, Murfreesboro, TN

**Application of Alkaline-Resistant Virgin Kraft Fibers in** 10:05 am  
**Fiber Cement Products**  
**Jerry Morton**, Senior Research Chemistry, Buckeye Products and  
Marketing Development, Memphis, TN

**Cellulose Fibers in Cast, Hatschek-Produced, and** 10:25 am  
**Extruded Composites**  
**Katherine G. Kuder**, Assistant Professor, Seattle University, Seattle,  
WA; **Julie Rapoport**, Exponent Failure Analysis Associate and  
**Surendra P. Shah**, Northwestern University

# Monday, April 23, 2007

## 9:00 am - 12:00 pm—cont.

**Natural Fiber Cement Composites**

**Salon C**

**Moisture Sensitivity of Premix Wood and Glass**

**10:45 am**

**Fiber-Reinforced Cement Composites**

**Shashi S. Marikunte**, Assistant Professor, Southern Illinois University, Carbondale, IN, and **Nandini Banerjee**, Southern Illinois University

**Internal Curing Using Wood-Derived Materials**

**11:05 am**

**Kimberly E. Kurtis**, Associate Professor, Georgia Institute of Technology; **Benjamin J. Mohr**, Tennessee Technological University; and **Hiroki Nanko**, Mead-Westvaco Corporation

# Monday, April 23, 2007

## 9:00 am - 12:00 pm

**Jointing Design, Practices, and Performance**

**Salon D**

Sponsored by Committee E702

**Session Co-Moderators:**

Kari L. Yuers  
President and CEO  
Kryton International Inc.  
Vancouver, BC, Canada

John Gonzalez  
Senior Engineer  
Southern Company Generation  
Atlanta, GA

**Introduction**

**9:00 am**

**Kari L. Yuers**, President and CEO, Kryton International Inc.,  
Vancouver, BC, Canada

**Slab Joints: So, What's the Big Deal?**

**9:10 am**

**Jerry A. Holland**, Director of Design Services, Structural Services Inc.,  
Jonesboro, GA

**Upgrading Joints in Concrete**

**9:40 am**

**Peter H. Emmons**, President, Structural Group Inc., Hanover, MD

**Joints in Slabs on Grade, Part 1**

**10:10 am**

**Kim D. Basham**, Senior Structural Engineer, Concrete Engineering  
Specialists, Cheyenne, WY

**Joints in Slabs on Grade, Part 2**

**10:45 am**

**Bruce A. Suprenant**, Senior Construction Engineer, Concrete  
Engineering Specialists, Boulder, CO

**Challenges with Joints in Transportation Structures**

**11:20 am**

**Paul J. St. John**, President, Concrete Consultant, St. John Consulting  
Service, Scotia, NY

# Monday, April 23, 2007

## 9:00 am - 12:00 pm

### **Seismic Strengthening of Concrete Buildings Using FRP Composites, Part 2**

**Salon B**

Sponsored by Committee 440-F

**Session Co-Moderators:** Pedro Silva  
Assistant Professor  
George Washington University  
Washington, DC

Tarek Alkhrdaji  
Structural Engineer  
Structural Group  
Elkridge, MD

### **Confinement Efficacy of Partially and Fully Wrapped CFRP Systems in RC Column Prototypes** 9:05 am

**Joaquim Oliveira Barros**, Professor, University of Minho,  
Guimaraes, Portugal

### **Rotation Model for FRP-Strengthened Joints** 9:35 am

**Pedro F. Silva**, Assistant Professor, George Washington  
University, Washington, DC

### **Flexural Strength Enhancement of Flanged T-Beams in Frames** 10:05 am

**Jose I. Restrepo**, Research Engineer, University of California-San  
Diego, La Jolla, CA, and **Yung-Chih Wang**, National Central University  
Chungli/Taoyuan

### **Performance of an RC Corner Beam-Column Joint Severely Damaged Under Bidirectional Loading and Rehabilitated with FRP Composites** 10:35 am

**Murat Engindeniz**, Student, Georgia Institute of Technology, Atlanta,  
GA, and **Lawrence F. Kahn** and **Abdul-Hamid Zureick**, Georgia  
Institute of Technology

### **Seismic Rehabilitation of Slab-Column Connections** 11:05 am

**Widianto Widianto**, Structural Engineer, Bethel Corporation, Houston,  
TX, and **Ying Tain**, **Jaime Argudo**, **Oguzhan Bayrak**, and **James O.  
Jirsa**, University of Texas at Austin

# Monday, April 23, 2007

## 9:00 am - 12:00 pm—cont.

**Seismic Strengthening of Concrete Buildings  
Using FRP Composites, Part 2**

**Salon B**

**Experimental Evaluation of Prismatic Reinforced  
Concrete Columns Strengthened with CFRP**

**11:35 am**

**Antonio Nanni**, Professor and Chair, University of Miami, Coral Gables, FL, and **Silvia V. Rocca** and **Nestore Galati**, University of Missouri-Rolla

# Monday, April 23, 2007

## 12:00 pm - 2:00 pm

✓ Student Lunch  
\$40 U.S. per person

Grand A



**Speaker:** Bob Harris  
President  
The Decorative Concrete Institute  
Temple, GA

**Topic:** Decorative Concrete—From Fringe  
Fashion to an In-Vogue Material with  
Widespread Appeal

Join Bob Harris for an overview of the roots of decorative concrete through current mainstream markets. During this presentation, participants will learn about the different market segments that make up decorative concrete and new, innovative products and techniques such as stamping, staining, polishing, concrete countertops, and floor over-layments. See why millions of consumers from architects, engineers, municipalities, and retail owners to homeowners are choosing the decorative concrete alternative.

Following lunch, awards will be presented to the winners of the Student FRP Composites Competition. **The Student Lunch is FREE to students who preregister.**

**PREREGISTRATION IS REQUIRED TO ATTEND.**

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

✓ Separate Fee Required

# **Monday, April 23, 2007**

## **2:00 pm - 3:00 pm**

### **Convention Session Moderator Training**

**Cabinet**

All future convention session moderators are encouraged to attend to review the new Convention Session Moderator Training, learn about changes to requirements for presentations/handouts, obtain an understanding of how final approval forms are incorporated into convention marketing and the program book, and get questions answered specific to your future session.

# Monday, April 23, 2007

## 2:00 pm - 4:00 pm

**Nondestructive Evaluation Methods Demonstration Galleria Exhibit Demo will also be held on Tuesday, April 24, 2:00 pm - 4:00 pm.**

Those interested in nondestructive evaluation for structural, pavement, and tunnel systems will have an opportunity not only to see a range of equipment, but also to try them out.

Larry Olson, Principal Engineer of Olson Engineering and Olson Instruments, invites you to participate in a hands-on demonstration of nondestructive evaluation (NDE) methods for concrete thickness, void, honeycomb, cracking, strength, subgrade support, and corrosion condition. Specific NDE methods to be demonstrated are listed below:

- Impact Echo
  - Concrete Thickness Gauge
  - Impact Echo Scanner
- Spectral Analysis of Surface Waves
- Ultrasonic Pulse Velocity
- Structural Tomography Imaging Software
- Slab Impulse Response
- GalvaPulse™ for Corrosion Rate, Activity, and Concrete Resistance

Technical briefs on the methods will be available. The NDE equipment will also be on display at the Olson Engineering and Olson Instruments exhibit booth #301. Mr. Olson is a member of the ACI Committees 228, Nondestructive Testing of Concrete and 309, Consolidation of Concrete, and is Chair of the ICRI Evaluation Committee.



# Monday, April 23, 2007

## 2:00 pm - 5:00 pm

**Recent Advances in Fatigue of Concrete and Composites**      **Salon B**

Sponsored by Committee 215

**Session Co-Moderators:**      Kolluru V. Subramaniam  
Associate Professor  
City College of New York  
New York, NY

Elin Jensen  
Assistant Professor  
Lawrence Technological University  
Southfield, MI

**Evaluation of the Steel to Concrete Bond Under Repeated Loading**      **2:05 pm**

**K.A. Soudki, A. Rteil, and T.H. Topper**, Civil Engineering Department, University of Waterloo, Waterloo, ON, Canada

**Deterioration of FRP-to-Concrete Bond Under Fatigue**      **2:34 pm**

**Kent A. Harries**, Assistant Professor, University of Pittsburgh, Pittsburgh, PA; **Andrew Zorn**, University of Pittsburgh; **John Aidoo**, Ross-Hulman Institute of Technology; and **Joshua Quattlebaum**, Stevens and Wilkinson

**Fatigue Resistance of Rigid Pavements: Findings from Small- and Full-Scale Concrete Test Specimens**      **3:04 pm**

**Jeffery R. Roesler**, Associate Professor, University of Illinois, Urbana, IL

**Early Sawcutting Timing and Aggregate Interlock under Repeated Loading**      **3:34 pm**

**Elin Jensen**, Assistant Professor, Lawrence Technological University, Southfield, MI, and **Will Hansen**, University of Michigan

**Fatigue Crack Growth Prediction for Concrete Beams and Slabs of Elastic Foundation**      **4:04 pm**

**Jeffery R. Roesler**, Associate Professor, University of Illinois, Urbana, IL; and **Surendra P. Shah**, Northwestern University

**Fatigue Performance of Concrete Bridge Deck Slabs Reinforced with Glass FRP Composite Bars**      **4:35 pm**

**Amr El Ragaby**, University of Sherbrooke, Sherbrooke, QC, Canada, and **Brahim Benmokrane** and **E. El Salakawy**, University of Sherbrooke

# Monday, April 23, 2007

## 2:00 pm - 5:00 pm

**Designing Concrete Structures for Fire Safety**

**Salon A**

Sponsored by Committee 216

**Session Co-Moderators:** Venkatesh Kumar R. Kodur  
Professor  
Michigan State University  
East Lansing, MI

Long T. Phan  
Research Structural Engineer  
National Institute of Standards  
and Technology  
Gaithersburg, MD

**Introduction to ACI 216 Committee and Current  
Committee Activities** **2:00 pm**

**Venkatesh Kumar R. Kodur**, Professor, Michigan State University,  
East Lansing, MI

**Performance of High-Strength Concrete at High Temperature** **2:05 pm**  
**Long T. Phan**, Research Structural Engineer, National Institute of  
Standards and Technology, Gaithersburg, MD

**Effect of Slag on the Spalling Resistance of Concrete in Fire** **2:30 pm**  
**Jay G. Sanjayan**, Associate Professor, Monash University,  
Melbourne, VIC, Australia, and **Maurice Guerrieri**, Monash University

**Development of Restraint Mechanisms in Precast  
Concrete Double-Tee Floor Systems Subjected to Fire Loading** **2:55 pm**  
**Stephen Pessiki**, Professor and Chairperson, Lehigh University,  
Bethlehem, PA

**A Numerical Model for Predicting the Fire Behavior of  
Reinforced Concrete Beams** **3:20 pm**  
**Monther B.M. Dwaikat**, PhD Candidate, Michigan State University, East  
Lansing, MI, and **Venkatesh Kumar R. Kodur**, Michigan State University

**Fire Performance and Fire Research of Concrete  
Assemblies, Products, and Methods** **3:45 pm**  
**Stephen S. Szoke**, Director Codes and Standards, Portland Cement  
Association, Skokie, IL

# Monday, April 23, 2007

## 2:00 pm - 5:00 pm—cont.

**Designing Concrete Structures for Fire Safety**

**Salon A**

**Post-Heating Residual Strength and Relaxation Stressing Properties of Pre-Steel and Significance for the Fire Performance of Unbonded Post-Tensioned Slabs** 4:10 pm

**Colin C. MacDougall**, Assistant Professor, Queen's University, Kingston, ON, Canada, and **K.J. MacLean** and **Luke A. Bisby**, Queen's University

**Structural Fire Tests of Concrete Slabs, Beams, Columns, and Walls**

**4:35 pm**

**Luc R. Taerwe**, Professor, Magnel Lab for Concrete Research, Gent, Belgium

# Monday, April 23, 2007

## 2:00 pm - 5:00 pm

**Precast/Prestressed Concrete Structural Systems  
for the Future**

**Salon C**

Sponsored by Committee 550

**Session Co-Moderators:** Thomas J. D'Arcy  
Principal  
The Consulting Engineers Group  
San Antonio, TX

Paul Johal  
Director, Research and Development  
Precast/Prestressed Concrete Institute  
Chicago, IL

**Camber and Live-Load Performance of Prestressed  
Beams Subjected to Elevated and Conventional Release Stresses** **2:05 pm**  
**Oguzhan Bayrak**, Associate Professor, University of Texas at Austin,  
Austin, TX, and **David Birrcher**, University of Texas at Austin

**Analytical Assessment of the Resistance of Precast  
Structures to Blast Effects** **2:30 pm**  
**Clay J. Naito**, Assistant Professor, Lehigh University, Bethlehem, PA

**Unified Shear Design for Reinforced and Prestressed Concrete** **2:55 pm**  
**Robert J. Frosch**, Associate Professor, Purdue University,  
West Lafayette, IN

**Post-Tensioned Precast Concrete Coupling Beams for  
Seismic Regions** **3:20 pm**  
**Yahya C. Kurama**, Associate Professor, University of Notre Dame,  
Notre Dame, IN, and **Brad Weldon**, University of Notre Dame

**Bond Performance Evaluation of Self-Consolidating  
Concrete in Prestressed Concrete Applications** **3:45 pm**  
**Robert J. Peterman**, Associate Professor, Kansas State University,  
Manhattan, KS

**Development of Design Methodology for Precast Concrete  
Diaphragms for Seismic Resistance** **4:10 pm**  
**Robert B. Fleischman**, Associate Professor, University of Arizona,  
Tucson, AZ; and **Jose I. Restrepo**, Associate Professor, University of  
California-San Diego, La Jolla, CA

# Monday, April 23, 2007

## 2:00 pm - 5:00 pm

**Toys for Teaching**

**Salon D**

Sponsored by Committee E802

**Session Moderator:** Kimberly E. Kurtis  
Associate Professor  
Georgia Institute of Technology  
Atlanta, GA

Laurel Dovich  
Professor  
Walla Walla College  
College Place, WA

*All demonstrations will run concurrently and repeatedly in this round-robin session from 2:00 pm to 5:00 pm.*

### **Teaching Students To Evaluate Results**

**James H. Hanson**, Assistant Professor, Rose Hulman Institute, Terre Haute, IN

### **Check Out This Bad Concrete!**

**Margaret H. Reed**, Senior Petrographer, Wiss, Janney, Elstner Associates, Northbrook, IL

### **The Column Squasher—A Way to Learn About Confined Concrete (and Have Fun, Too)**

**Andrew Budek-Schmeisser**, Assistant Professor, Texas Tech University, Lubbock, TX, and **Barbara Budek-Schmeisser**, Texas Tech University

### **Low-Cost Frame Structures for Structural Dynamics and Performance-Based Seismic Design**

**Mark A. Aschheim**, Associate Professor, Santa Clara University, Santa Clara, CA, and **Gao Yang** and **Sally Wood**, Santa Clara University

### **Physical Discrete and Continuous Dynamic Models**

**Mike Baseheart**, Professor and Associate Department Head, University of Cincinnati, Cincinnati, OH, and **Gian A. Rassati**, University of Cincinnati

# **Monday, April 23, 2007**

## **2:00 pm - 5:00 pm—cont.**

**Toys for Teaching**

**Salon D**

### **Show and Tell on Concrete Materials**

**Michelle L. Wilson**, Training Engineer, Portland Cement Association, Skokie, IL

### **Classroom Demonstrations for Concrete Materials Concepts**

**Jason H. Ideker**, Graduate Research Assistant, Concrete Durability Center, Austin, TX

# Monday, April 23, 2007

## 2:00 pm - 5:00 pm

**SCC: Challenges and Solutions**

**Salon E**

Sponsored by Committee 237

**Session Moderator:**

Celik Ozyildirim  
Principal Research Scientist  
Virginia Transportation Research Council  
Charlottesville, VA

**Rheological Properties of SCC**

**2:05 pm**

**Kamal H. Khayat**, Professor, University of Sherbrooke, Sherbrooke, QC, Canada

**Moisture Tolerance in Self-Consolidating Concrete**

**2:30 pm**

**Ara A. Jeknavorian**, Research Fellow, W.R. Grace & Co., Cambridge, MA, and **Charles R. Cornman**, W.R. Grace & Co.

**Testing and Application of Self-Consolidating Concrete**

**3:00 pm**

**Joseph A. Daczko**, Product Line Manager, BASF Admixtures Inc., Hiram, OH

**Modeling Formwork Pressure of Self-Consolidating Concrete**

**3:30 pm**

**David A. Lange**, Associate Professor, University of Illinois, Urbana, IL

**Surface Appearance of Self-Consolidating Concrete:**

**4:00 pm**

**Challenges and Solutions**

**Arthur T. Winters**, Director of Marketing, Sika Corporation, Lyndhurst, NJ

**Shrinkage and Creep of Self-Consolidating Concrete**

**4:30 pm**

**Anton Karel Schindler**, Assistant Professor, Auburn University, Auburn, AL, and **Robert W. Barnes**, Auburn University

# Monday, April 23, 2007

## 5:00 pm - 6:00 pm

### Women in ACI Reception

Crystal A&F

All registered convention attendees are invited to attend the Women in ACI Reception. This long-standing ACI tradition is a great opportunity to get to know other women in the concrete industry through networking and socializing. A hosted bar and light hors d'oeuvres will be served.





# Monday, April 23, 2007

## 6:30 pm - 7:30 pm

**TAC 60th Anniversary Reception**  
(by invitation only)

**Crystal C&D**

Sponsored by the ACI Technical Activities Committee

**TAC Task Group Chair:** Michael E. Kreger, Professor  
School of Civil Engineering,  
and Director, Bowen Laboratory for  
Large-Scale Civil Engineering Research,  
Purdue University, West Lafayette, IN

Join members of the ACI Technical Activities Committee (TAC) as they reunite in Atlanta. All past and current TAC members and their guests are invited to attend this casual event. Start the night with light snacks and a cash bar. Suggested attire: TAC alumni shirts or casual attire.

# Monday, April 23, 2007

## 7:00 pm - 9:00 pm

**Puerto Rico Convention Preview Reception**

**Grand A&B**

All are invited to join the ACI Puerto Rico Chapter and get a preview of beautiful Puerto Rico. Come to the island and complement your ACI convention with a vacation. From hiking in a rain forest to conquering the largest Fortress in America, to dining on an infusion of classic and delectable Caribbean cuisine, to romantic walks on a moonlit beach—virtually any type of vacation interest can be accommodated in the land of your dreams, Puerto Rico.

This reception is free, but registration is requested.



# Monday, April 23, 2007

## 7:30 pm - 10:00 pm

**123 Forum: Is This Concrete Durable Enough?**

**Salon A**

Sponsored by Committee 123

**Session Moderator:** Mohammad S. Khan  
Senior Vice President  
Professional Service Industries, Inc.  
Herndon, VA

**Introduction** **7:30 pm**

**Mohammad S. Khan**, Senior Vice President, Professional Service Industries, Inc., Herndon, VA

**Experiences with Long-Term Durability of Concrete—  
The First 100 Years** **7:35 pm**

**Timothy P. Dolen**, Research Civil Engineer, Materials Engineering and Research Laboratory, U.S. Bureau of Reclamation, Denver, CO

**How Can I Tell this Concrete is Potentially Durable?** **7:45 pm**

**Peter C. Taylor**, Principal Engineer and Manager, CTL Group, Skokie, IL

**Is This Concrete Durable Enough? It Might Be!** **7:55 pm**

**Kevin A. MacDonald**, Vice President, Cemstone Concrete Products Co., Mendota Heights, MN

**Being Good at Doing Good** **8:05 pm**

**Kenneth Rear**, Vice President of Research and Support, Heidelberg Cement Technology Center, Atlanta, GA

**Durable Concrete—A State DOT's Perspective** **8:15 pm**

**Georgene M. Geary**, State Materials and Research Engineer, Georgia Department of Transportation, Forest Park, GA

**Are the Code Requirements Sufficient to Ensure  
Concrete?** **8:25 pm Durable**

**Michael D.A. Thomas**, Professor, Department of Civil Engineering, University of New Brunswick, Canada

**Questions, Answers, and Discussion** **8:35 pm**

# Tuesday, April 24, 2007

## 6:30 am - 8:00 am

**Educational Committee Chair Training Breakfast**

**Monroe**

**Session Moderator:** Cecil L. Jones  
State Materials Engineer  
North Carolina Department of Transportation  
Raleigh, NC

ACI Educational Committee Chairs are requested to attend this breakfast training session. This event provides an opportunity to meet with EAC members and other E-committee Chairs to discuss topics of interest to Committee Chairs. This session will focus on the issues of achieving and maintaining committee member balance to ensure smooth committee function. There will also be time available to discuss other items of interest to Chairs.

# Tuesday, April 24, 2007

## 9:00 am - 12:00 pm

**Avoiding Conflicts Between Contractors and Engineers**

**Salon D**

Sponsored by Committee E703 and the American Society of Concrete Contractors

**Session Moderator:** Michael J. Schneider  
Vice President  
Baker Concrete Construction Inc.  
Monroe, OH

Conflicts can arise when engineers and contractors misunderstand one another. By clearly stating each party's position, many of these problems disappear. In this session, controversial topics will be presented and both contractors and engineers will be invited to state their views on the topic. The mission is to enlighten engineers to the real-life problems of contractors and to help contractors understand why engineers sometimes specify things that seem excessive. Topics to discuss, based on ASCC Position Statements, are:

- Hard troweling of air-entrained concrete
- Trowel marks on concrete flatwork
- Bug holes/surface finish expectations
- Tolerances for slabs—Division 3 versus Division 9; thickness tolerances; suspended slabs
- Moisture-sensitive floor coverings
- Anchor bolt tolerances

**This is a panel discussion**

**Robert Simonelli**, Director of Field Engineering Services, Structural Services Inc., New Smyrna Beach, FL

**Terry Collins**, Concrete Construction Engineer, Portland Cement Association, Skokie, IL

**Tommy Ruttura**, CEO, Ruttura & Sons Construction Co., Inc., W. Babylon, NY

**Brad Inman**, Consultant, Ashland, OR

**Fred Keith**, CEO, Atlanta Bonded Warehouse Company, Kennesaw, GA

# Tuesday, April 24, 2007

## 9:00 am - 12:00 pm

**Results of NCHRP Projects on High-Strength Concrete**

**Salon A**

Sponsored by Committees 343, 363, and 423

**Session Moderator:** Bruce Kates  
Project Manager/Engineer  
Jacobs Civil Inc.  
St. Louis, MO

**Background to the NCHRP Projects** **9:05 am**

**Henry G. Russell**, Engineering Consultant, Henry G. Russell Inc.,  
Glenview, IL

**Project 12-56 Shear Provisions** **9:20 am**

**Daniel A. Kuchma**, Assistant Professor, University of Illinois, Urbana,  
IL, and **Neil M. Hawkins**, University of Illinois

**Project 12-60 Transfer Length, Development Length,  
and Splice Provisions; Non-Prestressed Reinforcement;  
and Prestressing Strand** **10:05 am**

**Julio A. Ramirez**, Professor, Purdue University, West Lafayette, IN,  
and **Bruce W. Russell**, Oklahoma State University

**Project 12-64 Flexural and Axial Force Provisions** **10:50 am**

**Sami H. Rizkalla**, Professor, North Carolina State University, Raleigh,  
NC; **Amir Mirmiran**, Florida International University; and **Paul Zia**,  
North Carolina State University

**Implementation of Results into the AASHTO Specifications** **11:35 am**

**David P. Hohmann**, Design Section Director, Bridge Division  
Texas DOT, Austin, TX

# Tuesday, April 24, 2007

## 9:00 am - 12:00 pm

**Concrete Heat Development: Monitoring and Evaluation, Part 1** Salon B

Sponsored by Committees 231, 236, and 325

**Session Co-Moderators:** Kejin Wang  
Associate Professor  
Iowa State University  
Ames, IA

Anton Karel Schindler  
Assistant Professor  
Auburn University  
Auburn, AL

**What Can We Learn From Monitoring Concrete Temperature?** 9:05 am  
**Peter C. Taylor**, Senior Engineer, CTLGroup, Skokie, IL, and  
**John W. Gajda**, CTLGroup

**Influence of Hydration on Heat Capacity and Thermal Conductivity of Cement Pastes** 9:35 am  
**Dale P. Bentz**, Chemical Engineer, National Institute of Standards and Technology, Gaithersburg, MD

**Monitoring and Evaluation of Cement Hydration by Semi-Adiabatic Field Calorimetry** 10:05 am  
**Paul J. Sandberg**, Senior Research Engineer, W.R. Grace & Co., Cambridge, MA; **Marc Zacharias**, W.R. Grace & Co.; and **Sergey Liberman**, Solidus Integration, USA

**Calorimetry Performed On-Site: Methods and Uses** 10:35 am  
**Kyle Austin Riding**, Graduate Student/PhD Candidate, University of Texas at Austin; **Anton Karel Schindler**, Auburn University; and **Jonathan L. Poole**, **Kevin J. Folliard**, and **Maria G. Juenger**, University of Texas at Austin

**Use of Thermal Measurements to Detect Potential Incompatibilities of Common Concrete Materials** 11:05 am  
**V. Tim Cost**, Senior Technical Service Engineer, Holcim (US) Inc., Canton, MS, and **Gary F. Knight**, Heidelberg Cement Group

# Tuesday, April 24, 2007

## 9:00 am - 12:00 pm

**Building Green with ICFs, Part 1**

**Salon C**

Sponsored by Committee 560

**Session Moderator:** Carla V. Yland  
President  
Yland Research and Consulting LLC  
Irvine, CA

**Overview PCA ICF Prescriptive Design Guide/Standard 9:05 am**  
**Joseph J. Messersmith**, Coordinating Manager, Regional Code Services, Portland Cement Association, Rockville, VA

**ICF Code Approvals 9:45 am**  
**Robert E. Sculthorpe**, Engineer, Consultant, FormTech Concrete Forms, Inc., Port Hope, ON, Canada

**Building Science and Implications for ICFs 10:15 am**  
**Vera Novak**, Technical Services Manager, Insulating Concrete Forms Association, Glenview, IL

**Dynamics of ICF Construction and Why It Works 10:45 am**  
**Ed Trinkle**, President, Ed Trinkle/ICF Builders, Blenheim, NJ

**ICFs and Habitat for Humanity—Big Benefits for Small Homes 11:25 am**  
**Ron Ardes**, President, Reddiform Inc., Butler, NJ



# Tuesday, April 24, 2007

## 9:00 am - 12:00 pm

### Specifications Workshop

Salon E

Sponsored by TAC Specifications

**Session Moderator:** Arthur T. Weiss  
Technical Supervisor  
Versa-Flex Incorporated  
Conyers, GA

**Introduction to TSC and ACI Specifications** 9:00 am

**Nicholas J. Carino**, Concrete Materials Consultant (Retired),  
Gaithersburg, MD

**ACI Process for Development of Specifications** 9:10 am

**Nicholas J. Carino**, Concrete Materials Consultant (Retired),  
Gaithersburg, MD

**ACI Specification in Context of Project** 9:30 am

**Arthur T. Weiss**, Technical Supervisor, Versa-Flex Incorporated,  
Conyers, GA

**ACI Specification Format** 10:10 am

**Aimee Pergalsky**, Executive Director, NE Ohio Concrete Promotion  
Council, Shaker Heights, OH

**Specification Language and Style** 10:50 am

**Jeffrey W. Coleman**, Attorney at Law, Coleman Hull and Van Vliet,  
Minneapolis, MN, and **Alfred L. Kaufman**, CEMEX

**Questions and Answers** 11:45 am

# Tuesday, April 24, 2007

## 12:00 pm - 2:00 pm

✓ **Contractors' Day Lunch**  
**\$42 U.S. per person**

**Grand A**

Hosted by the Construction Liaison Committee and the ACI Georgia Chapter

**Speaker:** Harry Moats  
Chief Operating Manager  
L. M. Scofield Company  
Atlanta, GA

**Topic:** Decorative Concrete—It Doesn't Have to Be Flat Anymore!

Harry Moats will discuss how to evaluate, set up, and execute vertical decorative concrete projects for the best results and a quality job. These are the things that a contractor needs to know about vertical decorative work versus conventional flatwork decorative work. This is essentially the “do’s and don’t’s” of vertical concrete construction. Engineers, architects, and contractors will find this presentation very beneficial to their practice.

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

✓ **Separate fee required**

# Tuesday, April 24, 2007

## 1:45 pm - 5:00 pm

**Building Green with ICFs, Part 2:  
Southface Eco Office Hard Hat Tour**

**Departs Main Lobby**

Sponsored by Committee 560

**Session Moderator:** Carla V. Yland  
President  
Yland Research & Consulting LLC  
Irvine, CA

This session will be a case study of the exciting newly-opened Southface Eco Office building in Atlanta, as a Platinum LEED building constructed with ICFs. Speakers will discuss the architectural, design, and construction aspects of the project. A tour of the facility will also be provided.

**The afternoon session is FREE to attend, but preregistration is required. Transportation will depart from the main lobby.**

✓ Separate fee required

# Tuesday, April 24, 2007

## 1:45 pm - 5:00 pm

**Pervious Concrete Demo at  
Southface Eco Office**

**Departs Main Lobby**

**Session Co-Moderators:**

Robin Houghton  
Precision Concrete Construction Inc  
Alpharetta, GA

Gordon Kenna  
Executive Director  
Georgia Concrete & Products Association  
Tucker, GA

A demonstration of pervious concrete will be done on the sidewalk and entry in front of the Southface Eco Office. The Southface Eco Office is an ICF construction building planned as a platinum LEED certified structure. One objective of this demonstration is to obtain the City of Atlanta's approval of a specification for pervious pavement for sidewalks.

**This demonstration is FREE, but you must pre-register to attend.  
Transportation will depart from the main lobby.**

# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm

Open Paper Session

Salon D

Sponsored by Committee 123

**Session Co-Moderators:** Narayanan Neithalath  
Assistant Professor  
Clarkson University  
Potsdam, NY

Prasad Rangaraju  
Assistant Professor  
Clemson University  
Clemson, SC

**Development of a New Test Method for Instantaneous Determination of the Water-to-Cement Ratio of Fresh Concrete** 2:04 pm  
**Mauricio Mancio**, Student, University of California at Berkeley, Berkeley, CA, and **Jeffrey R. Moore, Paulo J.M. Monteiro, and Steven D. Glaser**, University of California at Berkeley

**Finite-Element Simulations on Punching Tests of Shear-Retrofitted Slab-Column Connections** 2:26 pm  
**Anita Negele**, Institute of Construction Materials, University of Stuttgart, Stuttgart, Germany, and **Maria A. Polak**, University of Waterloo

**Modeling the Effect of Fly-Ash on the Sulfate Diffusion and Expansion of Concrete** 2:48 pm  
**Aboozar Bonakdar**, University of Tehran, Tehran, Iran, and **Barzin Mobasher**, Arizona State University

**Damage Assessment of Concrete Panels under Impact Loading Based on Laminography Technique** 3:10 pm  
**Fariborz Vossoughi**, PhD Student, University of California at Berkeley, Davis, CA; **Claudia P. Ostertag** and **Paulo J. M. Monteiro**, University of California at Berkeley; and **Richard Albert**, Digiray Corporation

**Effectiveness of Fly Ashes in Mitigating ASR Induced by Deicing Chemicals** 3:32 pm  
**Jigar Desai**, Graduate Research Assistant, Clemson University, Clemson, SC, and **Prasad R. Rangaraju**, Clemson University

# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm—cont.

Open Paper Session

Salon D

**Evaluation of Multiple Corrosion Protection Systems for Reinforced Concrete Bridge Decks** 3:54 pm

**Jason Draper**, Graduate Research Assistant, Lawrence, KS, and **David Darwin, JoAnn P. Browning**, and **Lihua Xing**, University of Kansas

**Deflection Hardening Hybrid Fiber-Reinforced Concrete (HyFRC) for Use in Bridge Approach Slabs** 4:16 pm

**Joshua Blunt**, Graduate Student Researcher, University of California at Berkeley, San Leandro, CA, and **Claudia Ostertag**, University of California at Berkeley

**Punching Shear Strength of Slabs with Circular Openings and Reinforcing Effects of Steel Pipes Embedded in Openings** 4:38 pm

**Taehun Ha**, Researcher, Daewoo Institute of Construction Technology, Suwon, Gyeonggi-do, South Korea, and **Bohwan Oh** and **Myungho Lee**, Daewoo Institute of Construction Technology

# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm

**Blind Prediction of the Response of Building Beam-Column Joints to Earthquake Loading, Part 1**

Salon C

Sponsored by Committee 447

**Session Moderator:** Laura N. Lowes  
Assistant Professor  
University of Washington  
Seattle, WA

**Introduction** 2:00 pm  
**Laura N. Lowes**, Assistant Professor, University of Washington, Seattle, WA

**Earthquake Response of Beam-Column Building Joints** 2:10 pm  
**Hitoshi Shiohara**, Associate Professor Department of Architecture, University of Tokyo, Tokyo, Japan

**Three-Dimensional Analysis of Reinforced Concrete Beam-Column Joints** 2:45 pm  
**Giovacchino Genesio**, University of Stuttgart, Stuttgart, Germany; **Rolf Eligehausen**, University of Stuttgart; and **Jasko Ozbolt**, Inst/Werkstoffe-Bauwesen

**Blind Analysis of Reinforced Concrete Beam-Column Joint Tests by FEM** 3:10 pm  
**Hiroshi Morikawa**, Kajima Technical Institute, Kajima Corporation, Tokyo, Japan

**Three Dimensional FEM Analysis on Seismic Resistance Structural Performance of Reinforced Concrete Beam-Column Joints Subjected to Reversed Cyclic Loads** 3:35 pm  
**Tsutomu Ogawa**, Nihon University, Chiba, Japan, and **Hiromi Adachi**, **Kunimoto Yamanaka**, **Mitsukazu Nakanishi**, and **Richie Caibal**, Nihon University

**Blind Analysis of Reinforced Concrete Beam-Column Joints Subjected to Multi-Axial Combined Loadings Using 3D Nonlinear FEM** 4:00 pm  
**Hiroshi Noguchi**, Professor, Chiba University, Chiba, Japan, and **Satoshi Murayama**, **Takashi Kashiwazaki**, and **Yoshihiko Watanabe**, Chiba University

# **Tuesday, April 24, 2007**

## **2:00 pm - 5:00 pm—cont.**

**Blind Prediction of the Response of Building Beam  
Column Joints to Earthquake Loading, Part 1**

**Salon C**

**Finite-Element Analysis of Reinforced Concrete**

**4:25 pm**

**Beam-Column Joint Subassemblages under Cyclic Loading**

**Michael D. Kotsovos**, National Technical University of Athens,  
Athens, Greece, and **Dimitrios Cotsovos**, National Technical  
University of Athens



# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm

**Concrete Heat Development: Modeling and Prediction,  
Part 2**

**Salon B**

Sponsored by Committees 231, 236, and 325

**Session Co-Moderators:**

Anton K. Schindler  
Assistant Professor  
Auburn University  
Auburn, AL

Kejin Wang  
Associate Professor  
Iowa State University  
Ames, IA

**Hydration Study of Cementitious Materials Using  
Isothermal and Semi-Adiabatic Calorimetry** **2:05 pm**

**Jonathan L. Poole**, Research Assistant, University of Texas at Austin, Austin, TX; **Kevin J. Folliard**, **Kyle A. Riding**, **Maria G. Juenger**, University of Texas at Austin; and **Anton K. Schindler**, Auburn University

**Characterization of Concrete Paving Mixtures  
with HIPERPAV** **2:35 pm**

**J. Mauricio Ruiz**, Project Manager, The Transtec Group Inc., Austin, TX; **Robert O. Rasmussen**, The Transtec Group Inc.; and **Ted R. Ferragut**, TDC Partners Ltd.

**Modeling the Heat Development of Concrete Associated  
with Cement Hydration** **3:10 pm**

**Claus V. Nielsen**, Senior Consultant, Danish Technological Institute, Taastrup, Denmark

**An Overview of Heat Signature Technology and Its  
Application to Proposed Concrete In-Place Thermal Cracking  
and Field Curing Indices** **3:40 pm**

**Farro F. Radjy**, President, Digital Site Systems Inc., Pittsburgh, PA

**Online Prediction of Strength Development in Precast  
Production Based on Cement Reaction Model** **4:10 pm**

**Aulis Kappi**, Project Manager, Consolis Technology Oy, Rusko, Finland, and **Erik Nordenswan**, Consolis Technology Oy

# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm

**Advances in Service Life Models that Consider Multiple Sources of Deterioration**

**Salon A**

Sponsored by Committees 365 and 446

**Session Co-Moderators:** Tracy Marcotte  
Associate  
CVM Facilities Renewal  
Wayne, PA

Jason Weiss  
Associate Professor  
Purdue University  
West Lafayette, IN

**Recent Advances in Service Life Modeling** **2:05 pm**

**Evan C. Bentz**, Assistant Professor, University of Toronto, Toronto, ON, Canada, and **Michael D.A. Thomas**, University of New Brunswick

**A Comprehensive Model for the Prediction of the Behavior of Concrete Exposed to Chemically Aggressive Environments** **2:30 pm**

**Jacques Marchand**, Professor, Laval University, Quebec City, QC, Canada, and **Eric Samson**, Simco Technologies Inc.

**A Probabilistic Cumulative Damage Model for Service Life Prediction of Concrete Structures under Various Load Processes** **3:00 pm**

**Zoubir Lounis**, Research Officer and Group Leader, National Research Council, Ottawa, ON, Canada

**The Influence of Cracking on Absorption and Diffusion** **3:30 pm**

**Jason Weiss**, Associate Professor, Purdue University, West Lafayette, IN, and **Mette Geiker**, Danish Technical University

**The Corrosion of Steel in Dynamically Loaded Reinforced Concrete** **4:00 pm**

**Carolyn M. Hansson**, Professor, University of Waterloo, Waterloo, ON, Canada, and **S.J. Jaffer**, University of Waterloo

**Modeling the Effects of pH-Altering Processes on the Free Chloride Concentration in Concrete** **4:30 pm**

**O. Burkan Isgor**, Assistant Professor, Carleton University, Ottawa, ON, Canada, and **Pouria Ghods** and **Mohammad Pour-Ghaz**, Carleton University

# Tuesday, April 24, 2007

## 2:00 pm - 5:00 pm

**Seismic Analysis and Design of Bridge Foundations**

**Salon E**

Sponsored by Committee 341

**Session Moderator:** Adolfo B. Matamoros  
Assistant Professor  
University of Kansas  
Lawrence, KS

**Direct Displacement-Based Design of Drilled Shaft and Pile Bent** 2:05 pm

**Mervyn J. Kowalsky**, Associate Professor, North Carolina State University, Raleigh, NC, and **Vinicio Suarez**, North Carolina State University

**Multi-Platform Analysis of Meloland Road Overcrossing Bridge with Consideration of Soil-Structure Interaction** 2:25 pm

**Oh-Sung Kwon**, Graduate Research Assistant, University of Illinois at Urbana-Champaign, Urbana, IL, and **Amr S. Elnashai**, University of Urbana-Champaign

**Rational Transverse Reinforcement Detailing for Precast Prestressed Piles** 2:45 pm

**Andrew Budek**, Assistant Professor, SW Texas State University, San Marcos, TX, and **Gianmario Benzoni**, University of California

**Nonlinear Modeling of Seismic Bridge Columns Supported by Deep Foundations** 3:05 pm

**Sri Sritharan**, Assistant Professor, Iowa State University, Ames, IA, and **Liam Wotherspoon**, The University of Auckland

**Field Testing of Full-Scale Bridge Foundation Systems Test Results and Modeling Studies** 3:25 pm

**John W. Wallace**, Associate Professor/PhD, University of California-Los Angeles, Los Angeles, CA, and **Eric Ahlberg**, University of California-Los Angeles

**Modeling Nonlinear Behavior of Shallow Foundations for Soil-Structure Interaction Analysis of Bridges** 3:45 pm

**Jian Zhang**, Assistant Professor, University of California-Los Angeles, Los Angeles, CA, and **Yuchuan Tang**, University of California-Los Angeles

# **Tuesday, April 24, 2007**

## **2:00 pm - 5:00 pm—cont.**

**Seismic Analysis and Design of Bridge Foundations**

**Salon E**

**Bridge Foundation—Seismic Design Considerations**

**4:05 pm**

**Harminder Singh**, Bridge Design Engineer, J.B. Barry and Partners, Dublin, Ireland

# **Tuesday, April 24, 2007**

## **5:00 pm - 6:00 pm**

**Faculty Network Reception**

**Crystal A&F**

Hosted by Committee E803

Faculty members and students are invited to attend this informal reception where you'll have a chance to exchange ideas and network. Light hors d'oeuvres will be served.

# Tuesday, April 24, 2007

## 6:30 pm - 10:00 pm

**Concrete Mixer at the Georgia Aquarium**

**Departs Main Lobby  
beginning at 6:00 pm**

Don't miss this unforgettable evening! The Concrete Mixer will be held at the Georgia Aquarium. Set among exotic fish and fauna, this location is truly unique. Sponsored by the ACI Georgia Chapter, the aquarium will be open entirely and exclusively for Concrete Mixer attendees!

**You must have a name badge to attend the Concrete Mixer. Bags and purses are discouraged as you will be required to go through a security screening.**

**Shuttle transportation will depart from the main lobby. Shuttles will run continuously between the hotel and the Georgia Aquarium beginning at 6:00 pm.**



*Georgia Aquarium  
Photos courtesy of Rose Studio, Inc./AtlantaPhotos.com, ©2006*

# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm

**Recent Developments in the Use of Polymer Concrete and Materials**

**Salon A**

Sponsored by Committee 548

**Session Moderator:** Milton D. Anderson  
President  
DJA Consultants  
Casper, WY

**The Role of Polymer Concrete in the Containment of Low-Level Nuclear Waste** 9:02 am

**Richard Prusinski**, President/Prinicpal, Polymer Concrete Consultants, Inc., Bloomfield Hills, MI

**Concrete Pavement Spall Repair Using Polymer Concrete** 9:22 am

**David W. Fowler**, Professor of Civil Engineering, University of Texas at Austin, Austin, TX

**Examining Bond Characteristics of Polymer Modified Concrete With Normal High-Performance Concrete** 9:42 am

**Mahmoud M. Reda Taha**, Assistant Professor, University of New Mexico, Albuquerque, NM

**Very Early Strength Latex Modified Concrete Overlays** 10:02 am

**Chris Davis**, Northeastern Manager, CTS Cement Mfg. Corp., Belmar, NJ

**Epoxy Asphalt Polymer Concrete on Orthotropic Steel Bridge Decks in China** 10:22 am

**Robert W. Gaul**, Construction Polymer Tech, Chemco Systems Inc., Redwood City, CA

**Underwater Repairs Using Epoxy Polymer Concrete** 10:42 am

**Brad Nemunaitis**, Director Technical Services, Tamms Industries, Kirkland, IL

**Sulfur Concrete—Its Place in the 21st Century** 11:02 am

**Garth J. Fallis**, Director Technical Services, Vector Construction Group, Winnipeg, MB, Canada

**Ice and Snow Melting Epoxy Overlays in Virginia** 11:22 am

**Michael M. Sprinkel**, Associate Director, Virginia Transportation Research Council, Charlottesville, VA

**Blind Prediction of the Response of Building Beam-Column** Salon C

# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm

### Joints to Earthquake Loading, Part 2

Sponsored by Committee 447

**Session Moderator:** Hitoshi Shiohara  
Associate Professor  
University of Tokyo  
Tokyo, Japan

**Introduction** 9:00 am

**Hitoshi Shiohara**, Associate Professor, University of Tokyo,  
Tokyo, Japan

**Phased Analysis-Based Strategy for Blind Predictions** 9:05 am

**of Reinforced Concrete Beam-Column Joints—How Can  
We Arrive at Reliable Prediction by 3D Nonlinear FEN?**

**Nobuaki Shirai**, Professor, Nihon University, Tokyo, Japan, and  
**Kazuki Tajima** and **Hiroshi Hashimoto**, Nihon University

**Three-Dimensional Nonlinear FE-Analysis of Reinforced** 9:30 am

**Concrete Beam-Column Joint under Cyclic Loading for Blind Analysis**

**Kenji Yonezawa**, Obayashi Corporation, Tokyo, Japan, and **T. Anabuki**  
and **K. Naganuma**

**Blind Analysis of Reinforced Concrete Beam-Column Joints** 9:55 am

**Subjected to Multi-Axial Combined Loadings Using DIANA**

**Hiroaki Noguchi**, Engineer, Tokyo Electric Power Service Co. Ltd.,  
Tokyo, Japan, and **Takashi Kashiwazaki**, **Satoshi Murayama**, and  
**Yoshihiko Watanabe**, Chiba University

**Evaluation of a Reinforced Concrete Beam-Column Joint** 10:20 am

**Super-Element**

**Nilanja Mitra**, Assistant Professor, California Polytechnical State  
University, San Luis Obispo, CA, and **Laura N. Lowes**, University of  
Washington

**Hysteresis Modeling of Beam-to-Column Connections** 10:45 am

**Burcu Burak Canbolat**, Assistant Professor, Middle East Technical  
University, Ankara, Turkey



# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm—cont.

**Blind Prediction of the Response of Building Beam-Column Joints to Earthquake Loading, Part 2** Salon C

**Simplified Proposed Expression for Shear Strength and Associated Distortion Calculation** 11:10 am

**Dimitris Timosidis**, Graduate Student Researcher, Demokritus University of Thrace, and **Stavroula J. Pantazopoulou**, Demokritus University of Thrace

**Comparison of Modeling Techniques for Reinforced Concrete Beam-Column Joints under Seismic Loading** 11:35 am

**Laura N. Lowes**, Assistant Professor, University of Washington, Seattle, WA

# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm

**CLSM Technology Update: New and Innovative Uses**

**Salon E**

Sponsored by Committee 229

**Session Co-Moderators:** Thomas A. Fox  
Manager Technical Support West  
Headwaters Resources, Inc.  
Renton, WA

Charles E. Pierce  
Associate Professor  
University of South Carolina  
Columbia, SC

**Introduction** **9:00 am**

**Thomas A. Fox**, Manager Technical Support West, Headwaters Resources, Inc., Renton, WA, and **Charles E. Pierce**, University of South Carolina

**CO<sub>2</sub> Sequestration through CLSM-Based Products** **9:05 am**  
**Bruce W. Ramme**, Manager Land Quality, We Energies, Milwaukee, WI

**Use of Pulp and Paper Mill Fibrous Residuals to Produce Excavatable CLSM** **9:35 am**

**Yoon-Moon Chun**, Research Associate, UWM Center for By-Products Utilization, Milwaukee, WI, and **Tarun R. Naik** and **Rudolph N. Kraus** University of Wisconsin-Milwaukee

**LD-CLSM: Very Low-Density Flowable Fill for Roadway Construction Applications** **10:05 am**

**Leo A. Legatski**, President, Elastizell Corp. of America, Ann Arbor, MI, and **Edward (Ned) M. Glysson**, Elastizell Corp. of America

**Effects of Cement Kiln Dust Content and Chemical Composition on CLSM Properties** **10:35 am**

**Charles E. Pierce**, Associate Professor, University of South Carolina, Columbia, SC, and **Rucker J. Williams**, Bechtel Savannah River, Inc.

**Colored Flowable Fill Applications** **11:05 am**

**Frank A. Kozeliski**, Materials Engineer/President, Gallup Sand and Gravel Co., Gallup, NM

# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm

**Concrete Pedestrian Bridges**

**Salon D**

Sponsored by Committee 343

**Session Moderator:** Steven L. Stroh  
Bridge Group Manager  
URS Corporation  
Tampa, FL

**Hiawatha Cable-Stayed Pedestrian Bridge** **9:05 am**  
**David Jeakle**, Senior Bridge Engineer, URS Corporation, Tampa, FL

**Pedestrian-Induced Vibrations of Footbridges—** **9:40 am**  
**Analysis and Control**  
**Stoyan Stoyanoff**, Rowan Williams Davies and Irwin, Inc., Guelph,  
ON, Canada

**142nd Avenue Pedestrian Bridge** **10:15 am**  
**Doug Sarkkinen**, Principal, Kramer Gehlen and Assoc., Vancouver, WA

**Strength and Stability of Prestressed Concrete** **10:50 am**  
**Through-Girder Pedestrian Bridges Subjected to**  
**Overheight Vehicle Impact**  
**Eray Baran**, Structural Engineer, Walter P Moore and Associates, Las  
Vegas, NV, and **Arturo E. Schultz** and **Catherine E. French**, University  
of Minnesota

**Stress Ribbon Pedestrian Bridges** **11:25 am**  
**Jiri Strasky**, Strasky and Anatech, San Diego, CA

# Wednesday, April 25, 2007

## 9:00 am - 12:00 pm

**Concrete with Recycled Materials, Part 1**

**Salon B**

Sponsored by Committee 555

**Session Co-Moderators:**

Christian Meyer  
Professor of Civil Engineering  
Columbia University  
New York, NY

Tarun R. Naik  
Academic Program Director  
University of Wisconsin-Milwaukee  
Milwaukee, WI

**Recycled Concrete Aggregate**

**9:05 am**

**David L. Gress**, Chairman, Civil Engineering Department, University of New Hampshire, Durham, NH, and **Beatrix Kerkhoff**, Portland Cement Association

**Crushed Returned Concrete as Aggregate for New Concrete** **9:30 am**

**Karthik H. Obla**, Director of Research and Materials Engineering, National Ready Mixed Concrete Association, Silver Springs, MD, and **Haejin Kim**, National Ready Mixed Concrete Association

**Use of Post-Consumer Glass as Concrete Aggregate**

**9:55 am**

**Christian Meyer**, Professor of Civil Engineering, Columbia University, New York, NY

**Behavior of Cement Pastes Modified with Glass Powder Filler** **10:20 am**

**Narayanan Neithalath**, Assistant Professor, Clarkson University, Potsdam, NY, and **Nathan Schwarz**, Clarkson University

**Recycling Tire Rubber in Cement-Based Materials**

**10:40 am**

**Mahmoud R. Taha**, Assistant Professor, The University of New Mexico, Albuquerque, NM, and **Moncef L. Nehdi**, University of Western Ontario

# Wednesday, April 25, 2007

## 12:00 pm - 2:00 pm

✓ International Lunch  
\$44 U.S. per person

Cobb/Clayton

Hosted by the International Committee



**Speakers:** Fouad Yazbeck  
Technical Director  
Readymix Abu Dhabi Ltd.  
Dubai, UAE



Rabih Fakhri  
Admixtures Product Manager  
SODAP (Admixture Chemical Company)  
Dubai, UAE

**Topic:** High Durability Concrete in the Palm  
Jumeirah Project, Dubai, UAE

This is one of the most extensively engineered and designed projects in the world and is being built under extreme conditions due to the weather, temperatures as high as 110 °F, and location on fill in the Persian Gulf. The islands being developed had to have an 1,800-foot section of 6.83 mile breakwater constructed to keep waves from impeding the construction. The first 900-foot section took 8 months to build and consisted of dumped sand rubble and 6-ton rocks. Global positioning satellites guided ships to the correct locations where they placed sand fill that was compacted by vibration. The finished area will include 32 hotels and will house approximately 120,000 residents in waterfront villas.

**Tickets may be purchased at the ACI Registration Desk up to 24 hours prior to the event, based on availability. Please notify the ACI Registration Desk if you have any dietary restrictions.**

✓ Separate fee required

# Wednesday, April 25, 2007

## 2:00 pm - 5:00 pm

**History of Concrete**

**Salon B**

Sponsored by Committee 120

**Session Co-Moderators:** Billie (Wilma) G. Snell  
Educational Research Consultant  
Tempe, AZ

Lawrence H. Taber  
Structural Engineer  
Black and Veatch  
Kansas City, MO

**The South Dakota State Cement Plant** **2:00 pm**  
**M. R. Hansen**, Professor, South Dakota School of Mines and  
Technology, Rapid City, SD

**A Brief History of the Centre Street Bridge** **2:20 pm**  
**Lisa R. Feldman**, Assistant Professor, University of Saskatchewan,  
Saskatoon, SK, Canada

**Rainbow Arch Bridges** **2:40 pm**  
**Kimberly Waggle Kramer**, Assistant Professor, Kansas State  
University, Manhattan, KS

**History of Cement and Concrete in Georgia** **3:00 pm**  
**Roy H. Keck**, Executive Director, Lafarge NA, Alpharetta, GA

**Concrete Pavement Designs in the Original Interstate System** **3:20 pm**  
**Kurt D. Smith**, Program Director, Applied Pavement Technology Inc.,  
Urbana, IL

**The Hoover Dam, 1931-1935: Its Construction** **3:40 pm**  
**Luke M. Snell**, Director of Concrete in Management Program, Arizona  
State University, Tempe, AZ

**Fortresses Without Roofs—The Maginot Line and the  
Atlantic Wall** **4:00 pm**  
**Andrew Budek-Schmeisser**, Assistant Professor, Texas Tech  
University, Lubbock, TX, and **Barbara Budek-Schmeisser**, Texas  
Tech University

# Wednesday, April 25, 2007

## 2:00 pm - 5:00 pm—cont.

**History of Concrete**

**Salon B**

**History of Cement and Concrete in India: A Paradigm Shift 4:20 pm**

**Jayant D. Bapatm**, Professor and Head Chemical Engineer, AISSMS College of Engineering, Pune, India, and **Chetan V. Hazaree**, Iowa State University

**Scotty's Castle**

**4:40 pm**

**Laurel M. Dovich**, Associate Professor, Walla Walla College, College Place, WA

# Wednesday, April 25, 2007

## 2:00 pm - 5:00 pm

**Use of Field-Measured Data for Strength Evaluation of Existing Structures** **Salon A**

Sponsored by Committee 437

**Session Co-Moderators:** K. Nam Shiu  
Senior Project Manager  
Walker Restoration Consultants  
Chicago, IL

Joseph A. Amon  
Senior Consultant  
Ardaman Associates Inc.  
Tampa, FL

**Testing Required by ACI Documents** **2:05 pm**  
**Joseph A. Amon**, Senior Consultant, Ardaman Associates Inc.,  
Tampa, FL

**Evaluation of an Existing P/T Structure for Potential Structural Modification** **2:20 pm**  
Daniel E. Moser, Senior Engineer, Walker Parking Consultants, Elgin, IL

**Evaluation of Existing Structures Using Non-Destructive Testing** **2:35 pm**  
**Carl J. "Chuck" Larosche**, Consultant, Wiss, Janney, Elstner Associates Inc., Austin, TX

**Case Studies of Extracting Concrete Properties from Existing Structures for Strength Evaluation** **2:50 pm**  
**John A. Frauenhoffer**, President, Frauenhoffer and Associates PC,  
Champaign, IL

**Field Measurements for Existing Structures** **3:05 pm**  
**Ashok M. Kakade**, Principal Engineer, Concrete Science, Inc.,  
Hayward, CA

**Field Testing and Measurements for Concrete Structures** **3:20 pm**  
**Jay Thomas**, Vice President, Structural Group, Inc., Elkridge, MD



# Wednesday, April 25, 2007

## 2:00 pm - 5:00 pm

**Concrete with Recycled Materials, Part 2**

**Salon C**

Sponsored by Committee 555

**Session Co-Moderators:**

Tarun R. Naik  
Academic Program Director  
University of Wisconsin-Milwaukee  
Milwaukee, WI

Christian Meyer  
Professor of Civil Engineering  
Columbia University  
New York, NY

**Paper Industry Fibrous Residuals in Concrete and CLSM 2:05 pm**

**Tarun R. Naik**, Academic Program Director, University of Wisconsin-Milwaukee, Milwaukee, WI, and **Rudolph N. Kraus**, University of Wisconsin-Milwaukee

**Uses of Recycled Plastics in Concrete**

**2:30 pm**

**Joe Hagerman**, Building Technologies Projects Manager, American Federation of Scientists, Washington, DC

**Blast-Furnace Slags**

**2:55 pm**

**Caijun Shi**, Principal Scientist, W.R. Grace & Co., Cambridge, MA

**Manufactured Lightweight Aggregate**

**3:20 pm**

**Bruce W. Ramme**, Manager Land Quality, WE Energies, Milwaukee, WI

**Suspension Trail Bridge Using Recycled Materials**

**3:45 pm**

**Brad Miller**, Senior Bridge Project Manager, HDR Engineering, Missoula, MT

**Recycled Spent Mushroom Substrate in Concrete Mix**

**4:05 pm**

**Chiu C. Liu**, Assistant Professor, Villanova University, Villanova, PA

**Beneficial Use of Dredged Material**

**4:30 pm**

**Christian Meyer**, Professor of Civil Engineering, Columbia University, New York, NY

# Thursday, April 26, 2007

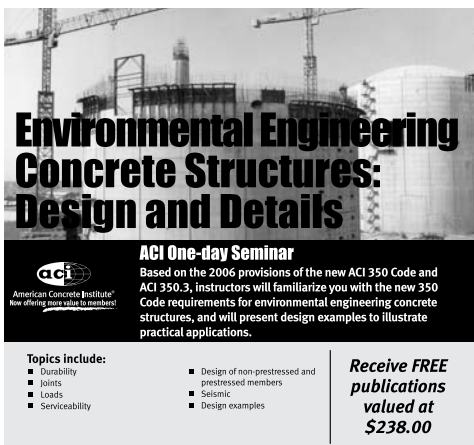
## 8:00 am - 5:00 pm

✓ **Educational Seminar: Environmental Engineering** Fayette/Newton  
**Concrete Structures: Design and Details**

**ACI Member Rate: \$427 U.S.**

**Nonmember Rate: \$567 U.S.**

This 1-day seminar is based on the 2006 provisions of ACI 350 and ACI 350.3, and is for consulting engineers, private industrial firms, government agencies, material suppliers, testing agencies, academia, and contractors. You will become familiar with the design requirements of LCS, and design examples to illustrate practical applications will be presented. This seminar will also cover durability, joints, loads, serviceability, and the design of prestressed and non-prestressed members. Complimentary publications, valued at \$202.00, include: ACI 350-06, ACI 350.3-06, and Course Notes.



**Environmental Engineering  
Concrete Structures:  
Design and Details**

**ACI One-day Seminar**  
Based on the 2006 provisions of the new ACI 350 Code and ACI 350.3, instructors will familiarize you with the new 350 Code requirements for environmental engineering concrete structures, and will present design examples to illustrate practical applications.

**ACI**  
American Concrete Institute®  
Now offering more value to members!

**Topics include:**

- Durability
- Joints
- Loads
- Serviceability
- Design of non-prestressed and prestressed members
- Seismic
- Design examples

**Receive FREE publications valued at \$238.00**

✓ **Separate fee required**

# PDH Form for Sessions at the ACI Spring 2007 Convention

You can earn Professional Development Hours (PDHs) for attending convention sessions. For your records, use the form found between pages 143 and 144 to keep track of the activities you completed and the amount of credit you may have earned.

One PDH is equal to one contact hour of instruction or presentation, rounded down to the nearest half hour.

Please do not return this form to ACI. It is recommended that individuals contact their state Boards of Registration for detailed information regarding continuing education.

## **Instructions:**

- Check off each session you attended.
- Write in the number of PDH credits you may have earned that day.
- Contact your state Board of Registration for detailed information regarding continuing education.

# Notes

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