Chicago

Program Book

ACI Spring 2010 Convention

Chicago 2010 Convention
aci
XTREME CONCRETE

Sheraton Chicago
Chicago, IL
March 21-25, 2010

Table of Contents

ACI Spring 2010 Convention
March 21-25, 2010
Sheraton Chicago, Chicago, IL

American Concrete Institute
Board of Direction

ACI President's Welcome

It is with great pleasure that I welcome you to Chicago. The Illinois Chapter has been looking forward to hosting this convention and has dedicated a great deal of time and effort to ensure that you enjoy this convention and the city they call home.

The ACI Spring 2010 Convention has an impressive program with many sessions, meetings, tours, and events you don't want to miss. Highlights of this convention include a Pervious Concrete Student Competition, the unveiling of *The Sustainable Concrete Guide: Strategies and Examples*, technical sessions featuring repair in extreme conditions and reconstruction efforts in Haiti, along with technical tours that showcase Chicago's impressive architectural accomplishments. In addition, you will have the opportunity to join friends and colleagues in honoring two of the most influential individuals in ACI at the reception in honor of Tony Fiorato and retirement dinner for ACI Executive Vice President, William R. Tolley. It is my hope that throughout the convention program all of you will acquire valuable industry information and experience that will enhance your knowledge and build your professional network.

Lori and I are thrilled to share this week with each of you. We hope your convention experience is both productive and memorable, and you experience all that the city of Chicago has to offer. I would like to thank the Illinois Chapter for their dedication to planning this convention, and thank you for your support and contributions to ACI.

Kind Regards,

Florian G. Barth
ACI President

OFFICE OF THE GOVERNOR
JRTC, 100 W. RANDOLPH, SUITE 16-100
CHICAGO, ILLINOIS 60601

PAT QUINN
GOVERNOR

Greetings!

As Governor of the State of Illinois, I am pleased to welcome everyone gathered for the American Concrete Institute's Spring 2010 Convention.

This event will provide all attendees with a chance to learn about the latest advancements in concrete technology and to discuss current concrete industry codes, specifications and guidelines. This conference also offers ample opportunity to meet and talk individually with some of the most prominent individuals and experts in the field of concrete technology. In addition to committee meetings, I am certain the networking opportunities, technical and educational sessions, seminars, social events, and exhibits will greatly benefit everyone in attendance and leave you energized to further your careers and take on new challenges.

I would like to offer a special welcome to those traveling from outside of Illinois for this event. During your stay, I encourage you to explore and discover the many sites and attractions that this great state has to offer. From historic landmarks and world-renowned museums, to first-class dining and theater experiences, there is truly a wide array of interests represented across the Land of Lincoln.

On behalf of the people of Illinois, I offer my best wishes for an enjoyable and memorable convention.

Sincerely,

Pat Quinn
Governor

OFFICE OF THE MAYOR
CITY OF CHICAGO

RICHARD M. DALEY
MAYOR

March 21, 2010

Greetings

As Mayor and behalf of the City of Chicago, it is my pleasure to extend warmest greetings to all those attending the American Concrete Institute's (ACI) Spring 2010 Convention.

The ACI Convention showcases products and services from top retailers and suppliers. Participants can build their skill and expertise through workshops and seminars and learn about new technology and techniques for concrete technology. This event offers outstanding opportunities to network, exchange best practices, gain access to comprehensive resources and formulate better ways to serve the customer.

While you are here, I hope that you will take the time to discover all that makes Chicago a great place to live and visit. I know you will like what you find. From our great architecture and beautiful Lake Michigan shoreline to our exciting nightlife, Millennium Park and may world-renowned cultural institutions, Chicago offers something for everyone.

Best wishes to everyone for an enjoyable and productive event.

Sincerely,

Richard M. Daley
Mayor

ACI Fall 2010 Convention

Green Concrete in the Steel City

October 24-28, 2010 • Pittsburgh, PA

Highlights of the convention will include:

- Tour of the Convention Center, world's first green convention facility
- Sustainability: Systems, Buildings and Materials presentation at Student Lunch
- Student Egg Protection Device Competition
- Session on Bidding a LEED Project
- Concrete Mixer at the Heinz History Center—the largest museum of Pennsylvania history.
- Dinner cruise
- Tour of Frank Lloyd Wright's "Falling Water"

For more information about the ACI Fall 2010 Convention, go to **www.aciconvention.org**.

ACI Sustaining Members

ACS Manufacturing Corporation

ALJANS

Ash Grove Cement Company

Ashford Formula

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BASF Admixtures, Inc.

BCS

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Bray Structures

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Commercial Contracting Corporation

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ACI Sustaining Members

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CTLGroup

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ACI Sustaining Members

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ACI Sustaining Members

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Convention Sponsors

The ACI Illinois Chapter wishes to thank the following organizations for their donations that helped to make the ACI Spring 2010 Convention a success.

SEARS TOWER aka BIG WILLI TOWER—TALLEST BUILDING IN CHICAGO

ACI Illinois Chapter
Baker Concrete Construction, Inc.
CTLGroup

TRUMP TOWER—HIGHEST STRENGTH CONCRETE

BASF Construction Chemicals, LLC
Holcim (US) Inc.
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BAHA'I TEMPLE—MOST BEAUTIFUL CONCRETE STRUCTURE

The Euclid Chemical Company

311 S. WACKER DRIVE—FORMER TALLEST CONCRETE STRUCTURE

Grace Construction Products

MARINA TOWERS—MOST RECOGNIZED CONCRETE STRUCTURE

Flood Testing Laboratories
Illinois Cement
Lafarge Cement
Lehigh Cement
VCNA Prairie/St. Mary's

WACKER DRIVE—LONGEST DESIGN LIFE CONCRETE

ACI Carolinas Chapter
ACI Greater Michigan Chapter
ACI Indiana Chapter
ACI Missouri Chapter
ACI San Antonio Chapter
Elmhurst Chicago Stone Co.
King Packaged Materials Company (King Shotcrete)
Quality Restoration

Convention Sponsors (cont.)

DEEP TUNNEL—DEEPEST HIGH STRENGTH CONCRETE

ACI Arizona Chapter
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ACI Georgia Chapter
ACI Intermountain Chapter
ACI Louisiana Chapter
ACI New Jersey Chapter
ACI Northeast Texas Chapter
ACI Rocky Mountain Chapter
Butterfield Color
Concrete Industry Board, A New York City ACI Chapter
Continental Cement
Xpress Materials, LLC

CIRCLE INTERCHANGE—BUSIEST ELEVATED HIGHWAY CONCRETE

Mohr Ready Mix
Todd Nelson
Rich Shadle

Sponsors are listed as of 2/24/10.

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ACI Chicago Chapter Convention Committee

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Joni Lauren Jones, CTLGroup

ACI Chicago Chapter Convention Committee (cont.)

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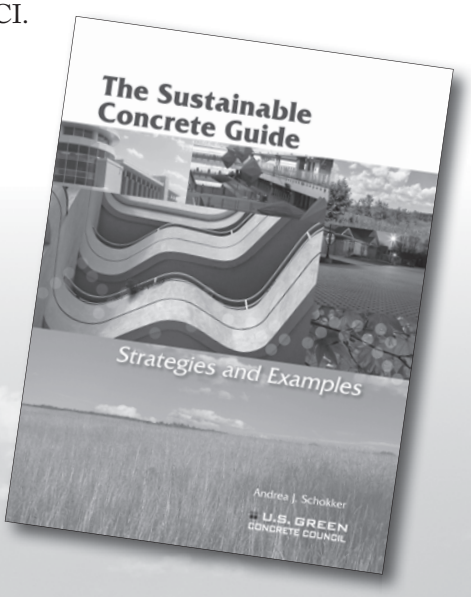
Ron Burg, CTLGroup
James Clarke, Prairie Material
Paul Gaudette, Wiss, Janney, Elstner Associates, Inc.

Treasurer
Susanne Flood, Flood Testing Laboratories, Inc.

The Sustainable Concrete Guide—Strategies and Examples

The first-ever comprehensive resource on concrete and sustainability, this book provides insight on specific strategies for the best use of concrete in high-performance, long-lasting green buildings. Included are case studies, technical data and references, and numerous practices that can be implemented immediately. This is the first in a series of guides on sustainable concrete published by the U.S. Green Concrete Council and available from ACI.

$75.00



American Concrete Institute®
Advancing concrete knowledge

www.concrete.org
248-848-3800

- Carbon footprint
- Thermal mass and storage
- Thermal transmission
- Longevity and service life
- Stormwater management
- Human factors and the living/working environment
- Security and safety
- Local community impact
- Reduce, reuse, recycle
- Economic impact
- Resilience
- Compatibility

GENERAL INFORMATION

General Information

ACI Registration **RIVER EXHIBIT HALL**

ACI staff is 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	8:00 am-5:00 pm
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 "Convention #1" ribbon on their name badge. Please welcome them to the convention!

Schedule Changes **RIVER EXHIBIT HALL**

Cancellations, additions, and location changes to the convention schedule will be posted daily on a monitor inside the exhibit area at the Sheraton Chicago.

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 the hotel operator by dialing '0' or hotel security at extension 88.

General Information

ACI Book Drive **OUTSIDE RIVER EXHIBIT HALL**

Making Literacy More Concrete!

ACI will conduct a book drive during the ACI Spring 2010 Convention, in an effort to promote literacy. Bring a new or gently used book for children in grades K-12, to help us reach our goal of 1200 books!

Donated books will be given to Book Worm Angels' a non-profit organization founded to help children in underachieving Chicago Public Schools strengthen their reading skills and develop a love for reading. Book Worm Angels helps to establish classroom lending libraries for recreational reading in an easily administered program involving principals, teachers, reading specialists, and parents/caregivers. To learn more about Book Worm Angels, visit www.bookangels.org.

ACI Bookstore **RIVER EXHIBIT HALL**

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

Career Center **RIVER EXHIBIT HALL**

Looking for a job or an employee? Visit the ACI Bookstore to view ACI's 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, and target the individuals you want to attract.

Membership Information **RIVER EXHIBIT HALL**

To learn MORE about the benefits of becoming an ACI member and how to become a member, visit the ACI Bookstore.

ACI E-Learning **RIVER EXHIBIT HALL**

ACI is expanding its reach to provide educational training via the Internet. This program will cover topics from ACI certification training to courses covering design, construction, and repair of concrete. E-Learning courses are now available. Stop by the ACI Bookstore to learn more about this new program.

General Information

Cyber Stations and Wireless Hot Spots **RIVER EXHIBIT HALL**
Stay connected to home and work! Take advantage of the Cyber Stations and FREE wireless hot spots available in the River Exhibit Hall 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

To access the wireless connection, look for **ACI Cybercafe 1**, **ACI Cybercafe 2**, **ACI Cybercafe 3**, or **ACI Cybercafe 4** in your network connections.

ACI will have a limited number of laptop charging stations. Charging time is limited to 20 minutes. DO NOT leave your laptop or other valuables unattended at any time. ACI and the Sheraton are not responsible for lost or stolen items.

Local Information **OUTSIDE RIVER EXHIBIT HALL**
ACI Illinois Chapter members will be happy to answer questions about the local area. Stop by their information desk during the following hours:

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

ACI Fall 2010 Convention Information **OUTSIDE RIVER EXHIBIT HALL**
Mark your calendars for the Fall 2010 Convention October 24-28, 2010 in Pittsburgh, PA. The convention will focus on sustainability and thus has the theme “Green Concrete in the Steel City.” The ACI Pittsburgh Area Chapter will be available Sunday through Tuesday to answer your questions about Pittsburgh and activities at the fall convention.

General Information

FOOD AND BEVERAGE OPTIONS

ACI Concession Stand **RIVER EXHIBIT HALL-LEVEL 1**

A concession stand will be set up in the River Exhibition Hall Sunday through Tuesday, 11:00 am-2:00 pm. Sandwiches, salads, fruit and other grab-and-go items will be available for purchase.

LB Bistro and Patisserie **LEVEL 2**

Enjoy American cuisine in this French bistro-style restaurant. Breakfast is available Monday through Sunday 6:30 am-11:30 am. A breakfast buffet is available until 12:00 pm on weekends. Lunch is served 11:30 am-2:00 pm.

Chi Bar **LOBBY LEVEL**

Beverages and a limited bar menu are available 5:00 pm-1:00 am daily.

Chicago Burger Company **LEVEL 1**

Hours of operation vary from 11:30 am-7:00 pm based on hotel occupancy.

Shula's Steak House **LOBBY LEVEL**

Shula's is one of Chicago's premier steakhouses which also offers seafood and is open daily for dinner 5:30 pm-10:00 pm.

The Link@Sheraton Cafe **LEVEL 2**

Stop by to grab coffee or a snack from 6:00 am-5:00 pm. Workstations and wireless Internet is available 24 hours a day for hotel guests.

Java Bar **LOBBY LEVEL**

Java Bar is open each morning based on occupancy. Coffee, juice fruit and pastries are available. Additionally, beverages and a limited bar menu are available 3:00 pm-11:00 pm.

Room Service

Room service is available 6:00 am-11:00 am and 4:00 pm-2:00 am daily.

Restaurant Reservations **LOBBY LEVEL**

The concierge will be available to make restaurant reservations and recommendations daily 7:00 am-9:00 pm daily.

General Information

Beverage Breaks and Beer Garden **RIVER EXHIBIT HALL**
Beverages are available during the following hours.

Coffee	Sunday-Wednesday	7:30 am-10:30 am
Soda	Saturday	2:00 pm-5:00 pm
	Sunday-Tuesday	11:00 am-2:00 pm
Beer Garden	Monday-Tuesday	4:00 pm-6:00 pm

Water Stations
In an attempt to lessen the amount of bottled water thrown away during each convention, ACI has chosen not to provide bottled water to attendees. As a replacement, water stations will be placed throughout the hotel for you to enjoy.

Alcohol Policy
Non-alcoholic beer and soft drinks are available at all ACI-sponsored receptions. The legal drinking age in Illinois is 21.

TRANSPORTATION
Airport Shuttle
Go Airport Shuttle Express offers a scheduled transfer service 7 days a week to both Chicago O'Hare International Airport and Midway International Airport. *Please note that Go Airport Shuttle Express does make additional stops at other hotels on the way to the airport, which could delay your anticipated arrival/departure times.* Return transfer reservations must be made 24 hours prior to departure.

To purchase your shuttle ticket in advance or to learn more about Go Airport Shuttle Express, please visit **http://www.airportexpress.com/index.html** or call 1-888-284-3826. *For a 20% discount on the ACI Spring 2010 Airport Shuttle visit* **http://airportexpress.hudsonltd.net/res?USERIDENTRY=ACI&LOGON=GO**.

Taxis
Taxis are available from the main lobby. The average cost of a taxi to O'Hare International or Midway International Airport is approximately $28 to $40 depending on the number of passengers, time of day and airport of departure.

Taking a taxi around town? Be sure to have the address where you are going to give to the driver.

General Information

Public Transportation
The Chicago Transit Authority (CTA) offers regional transit (bus and rail service) throughout the Chicago metro area. For schedule, fare and station location information, visit **www.transitchicago.com**. Heading back to O'Hare International Airport? Go to the Clark and Lake Street Station and take the Blue Line train towards O'Hare. If you're leaving from Midway International Airport, go to the State and Lake Street Station and ride the Orange Line train to Midway.

Session Handouts on Demand **RIVER EXHIBIT HALL**
Handouts are available from speakers who have elected to provide and post them to the ACI Web site. Stop by the Cyber Stations or go to **www.aciconvention.org/handouts** to download or print a copy of the handouts for the sessions you plan to attend. If you do not find a handout for a particular session, please contact the speaker for more information.

Session Attendance Tracking Form
The Session Attendance Tracking Form, found after page 178, can be submitted to state boards that allow self-reporting of Continuing Education activities as evidence of participation. In most cases, one contact hour is equal to one Professional Development Hour (PDH). Check with your state board for acceptance criteria. *Please note: ACI does not track and cannot provide documentation confirming attendee participation or attendance at any ACI session held during the convention.*

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

Saturday	3:00 pm-6:00 pm
Sunday	7:00 am-7:00 pm
Monday & Tuesday	7:00 am-6:00 pm
Wednesday	7:00 am-3:00 pm

All speakers are requested to check in at the Speaker Ready Room one day prior to their session to ensure that:
- ACI has downloaded their presentation on the network in the session rooms
- Speakers' session handouts are downloaded onto the ACI Web site

Where's That Meeting Room?

ROOM NAME	LOCATION
ARKANSAS	Level 2
CHICAGO 6	Ballroom Level
CHICAGO 7	Ballroom Level
CHICAGO 8	Ballroom Level
CHICAGO 9	Ballroom Level
CHICAGO 10	Ballroom Level
COLORADO	Level 2
COLUMBUS A	Lobby Level
COLUMBUS B	Lobby Level
ERIE	Level 2
FOUNTAINVIEW	Level 5
HURON	Level 2
ILLINOIS BOARDROOM	Level 2
LINCOLN BOARDROOM	Lobby Level
MAYFAIR	Level 2
MICHIGAN A	Level 2
MICHIGAN B	Level 2
MISSISSIPPI	Level 2
MISSOURI	Level 2
OHIO	Level 2
ONTARIO	Level 2
PARLOR A	Lobby Level
PARLOR B	Lobby Level
PARLOR C	Lobby Level
PARLOR D	Lobby Level
PARLOR E	Lobby Level
PARLOR F	Lobby Level
PARLOR G	Lobby Level
RIVER EXHIBIT HALL	Level 1
SHERATON 1	Ballroom Level
SHERATON 2	Ballroom Level
SHERATON 3	Ballroom Level
SHERATON 4	Ballroom Level
SHERATON 5	Ballroom Level
SUITE 829	Level 8
SUITE 830	Level 8
SUITE 836	Level 8
SUITE 929	Level 9
SUITE 930	Level 9
SUITE 936	Level 9
SUITE 1029	Level 10
SUITE 1537	Level 15
SUPERIOR A	Level 2
SUPERIOR B	Level 2

Win a Piece of Chicago to Take Home!

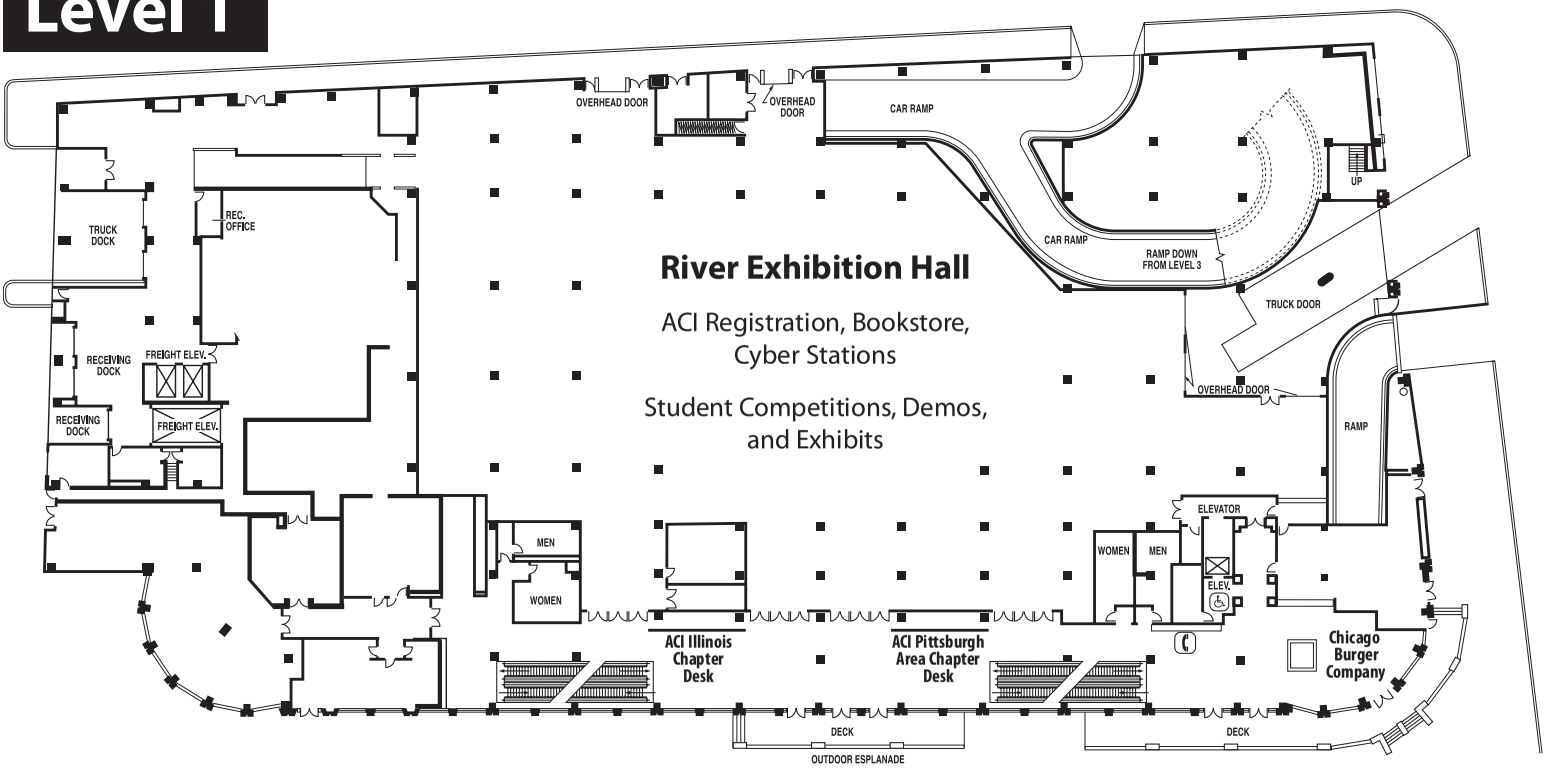
Winning is easy and fun:

1. *Stop by the ACI Illinois Chapter Desk located outside the River Exhibit Hall to pick up your Exhibitor Contact Card (one entry per attendee).**
2. *Fill in your card with your contact information.*
3. *Visit with exhibitors and find out about their products/services. Each exhibitor you visit will give you a sticker to place on your card.*
4. *Once your Exhibitor Contact Card is full, turn the completed card into the ACI Illinois Chapter Desk.*
5. *At 5:00 pm on Monday and Tuesday, March 22 and 23, the drawing winners will be announced in the Beer Garden.*

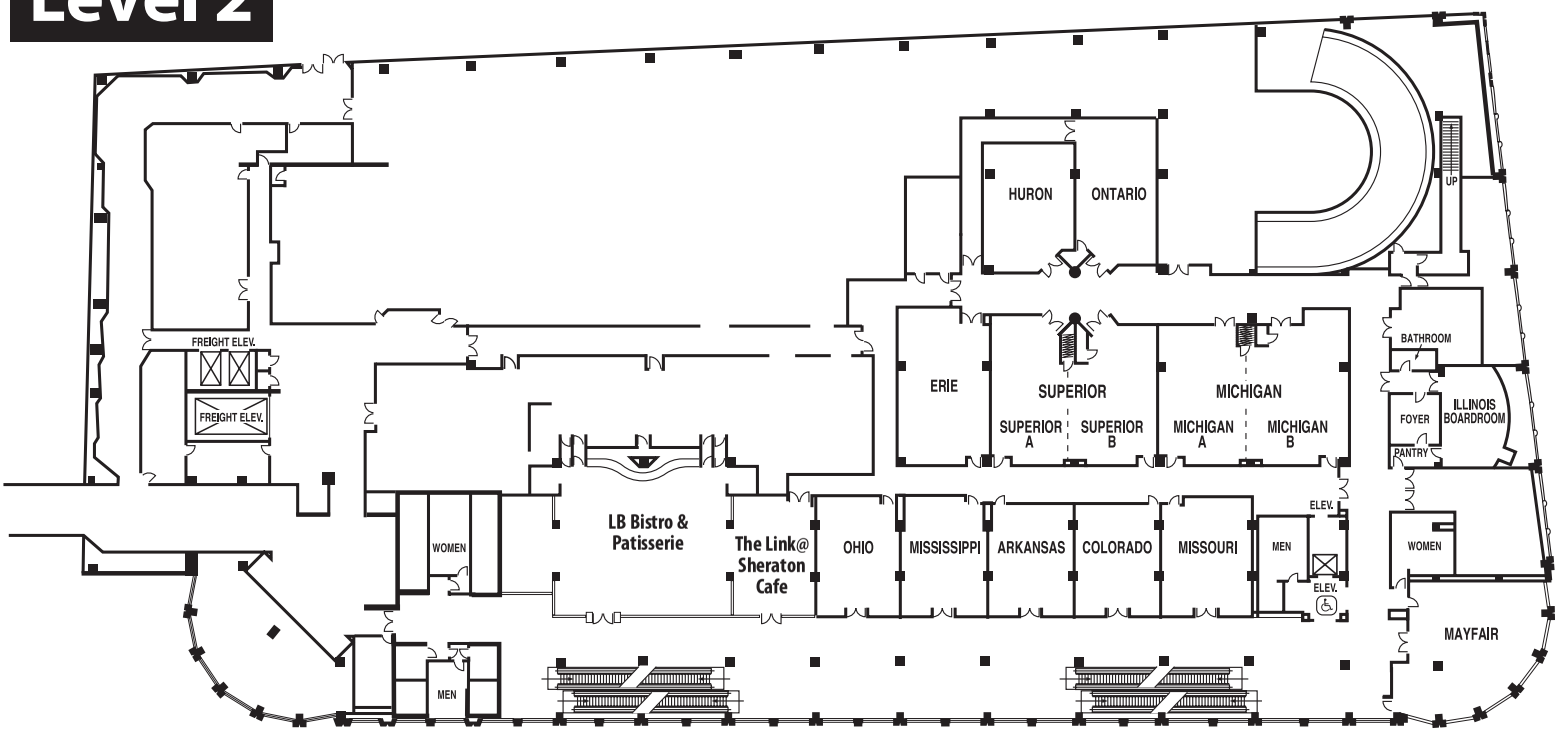
If you win but are not at the Beer Garden, the Chicago Chapter Convention Committee will send your prize to you!

**Exhibitors are not eligible to win.*

Level 1



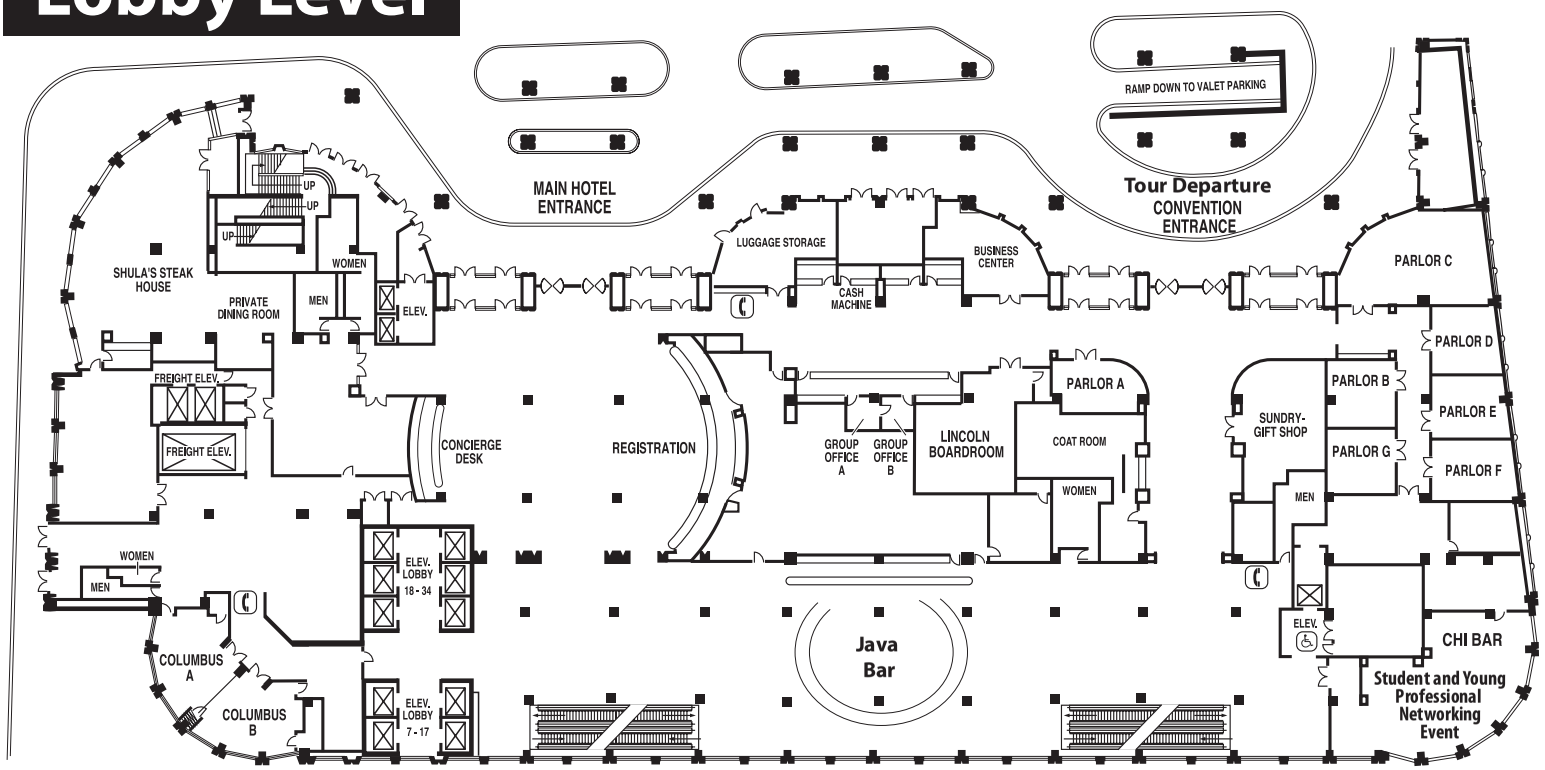
Level 2



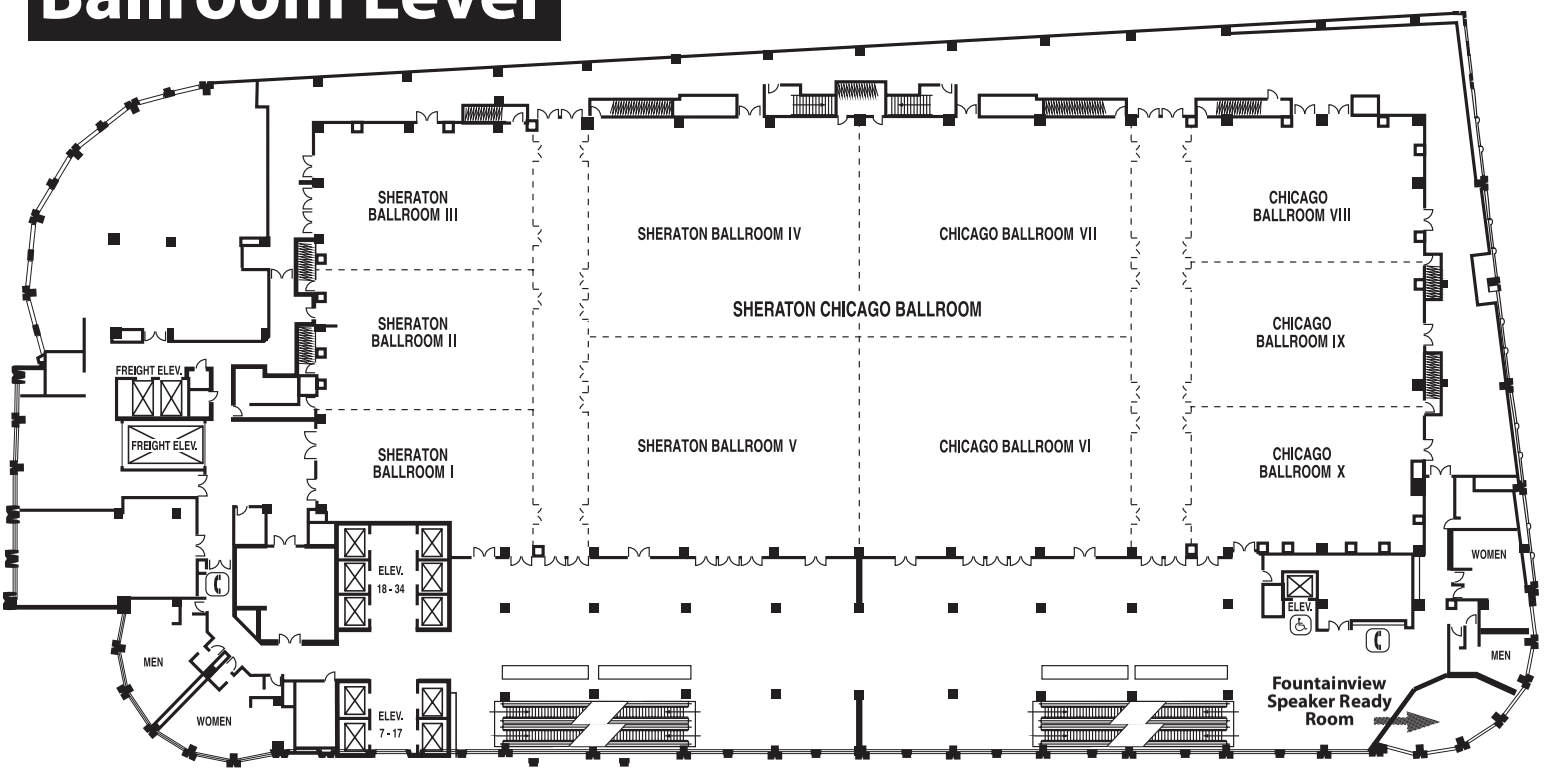
Sheraton Chicago Floorplan

Sheraton Chicago Floorplan

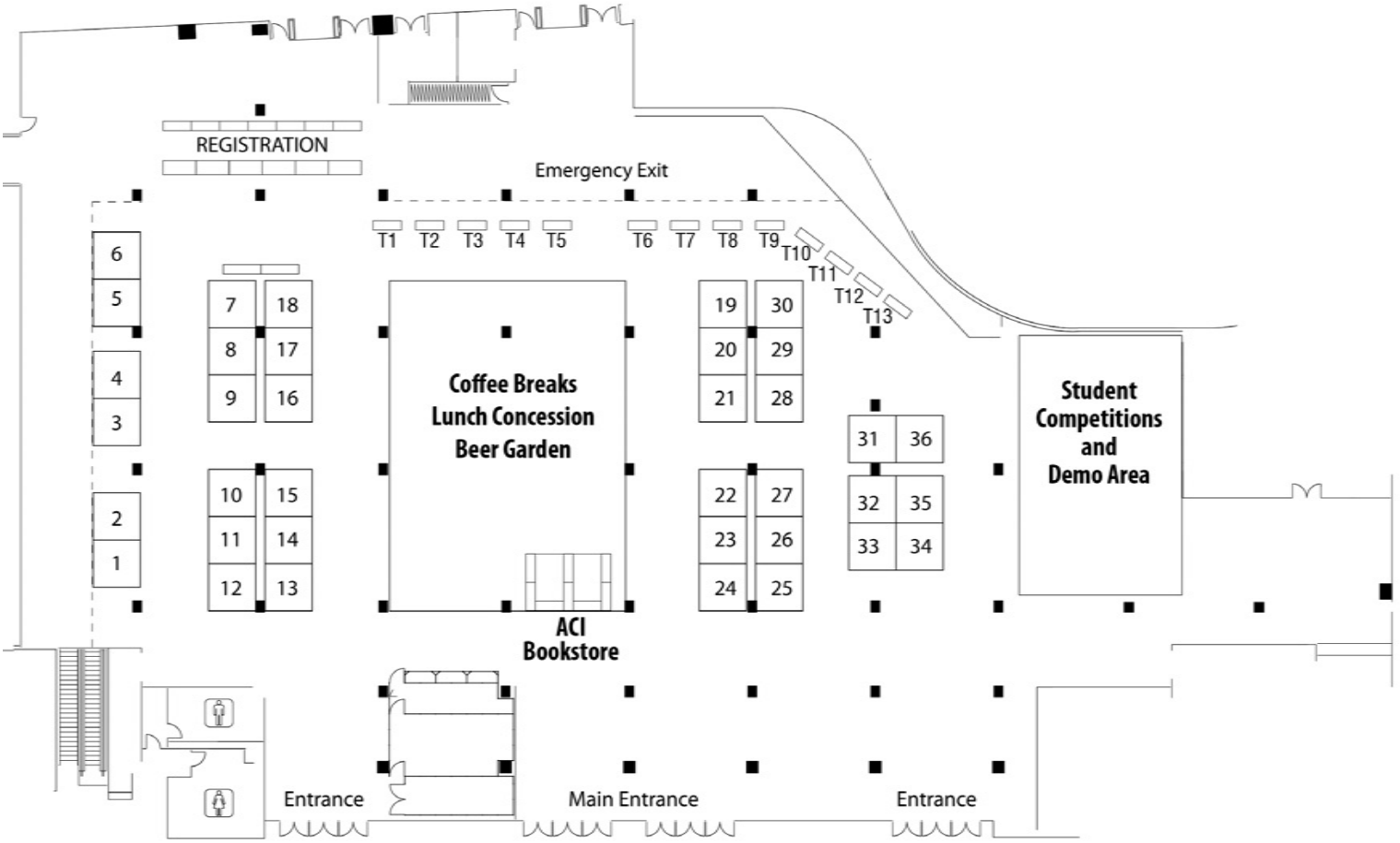
Lobby Level



Ballroom Level



Exhibits/Registration
River Exhibition Hall—Level 1



Exhibitors

Exhibitor listing as of 2/24/10

Exhibits **RIVER EXHIBIT HALL**

The ACI Illinois Chapter and the American Concrete Institute wish to thank all exhibitors for their participation and support of the ACI Spring 2010 Convention.

Exhibit Hours

Please visit the exhibitors during the following hours:

Sunday	8:00 am-5:00 pm
Monday	8:00 am-5:00 pm
Tuesday	8:00 am-5:00 pm

American Casein Company **Booths #5 & 6**

American Casein Company offers specialized protein polymers for use as a water reducer or super-plasticizer in cement applications including but not limited to injection grouting, self-leveling underlayments and historic repair. Technical assistance is available as well from Amco's Protein Polymer Group. For additional information visit www.americancasein.com.

Atlas Restoration, LLC **Table #3**

This geotechnical contractor's scope of work includes slab stabilization, joint repair, foundation remediation with Atlas Piers and deep foundation systems with Chana Helical Anchors. **Attend Atlas' presentation of Slab Stabalization with Polyurethane Foam on Tuesday, March 23rd at 9:45 am in the River Exhibit Hall.** For additional information visit www.atlasrestoration.com.

BASF Construction Chemicals, LLC **Booth #21**

BASF's Construction Chemicals division is the worldwide supplier of chemical systems and formulations for the construction industry. The North American Construction Chemicals Division of BASF is comprised of four business lines that offer products and solutions primarily for commercial, residential, industrial, and infrastructure construction, improving durability, water resistance, energy efficiency, safety, and aesthetics. BASF's innovative products and solutions help make products better. **BASF will introduce a revolutionary workability admixture on Monday, March 22nd at 10:30 am in the River Exhibit Hall.** Contact BASF Construction Chemicals at 800-628-9990 or visit www.construction-chemicals.basf.com.

Exhibitors

Exhibitor listing as of 2/24/10

Burgess Pigment Company **Booth #18**
Introducing Burgess OPTIPOZZ, a highly reactive metakaolin, engineered for quick strength, improved durability, and reduced efflorescence in your mix design. For more information, visit www.burgesspigment.com.

Chicago Testing Laboratory, Inc. **Table #5**
Chicago Testing Laboratory (CTL) is your "best-in-class" resource for portland cement concrete testing, inspection, training, and engineering. Since 1912, CTL has maintained its reputation as a leader in the field of materials testing and inspection. Visit www.chicagotestinglab.com for additional information.

Construction Tie Products **Booth #33**
Construction Tie Products (CTP) designs, produces, and supplies specialty anchors for the masonry restoration and masonry construction marketplace. CTP is a U.S. company supplying S.S. helical ties, mechanical repair anchors, stone anchors, and provides services to design and manufacture ties for special applications.

CTLGroup **Booths #19 & 20**
CTLGroup is an internationally recognized professional consulting and testing firm that provides engineering and scientific services to clients in the transportation, materials, power, buildings and facilities, and legal and insurance industries. Our unmatched ability to deliver for clients on all these elements is what makes CTLGroup the industry leader. For additional information, visit www.ctlgroup.com.

Decon USA, Inc. **Booth #24**
Decon USA is the original North American manufacturer of Studrails and the exclusive distributor of the Macalloy Tension Rod System and the Jordahl Anchor Channels. Decon will be featuring the three innovative product lines at their booth. Visit www.deconusa.com for additional information.

Engius, LCC **Table #2**
Engius develops and sells high-tech products for the heavy-construction, concrete industry. The company's flagship product is the IntelliRock product line that monitors the thermal properties of concrete and is able to determine the strength of curing concrete in real-time. Visit our booth to see our new wireless system that enables access to real-time data via the Internet. **Engius will demonstrate "IntelliRock and Concrete Maturity" on Monday, March 22nd at 3:00 pm in the River Exhibit Hall.** For additional information, visit www.engius.com.

Exhibitors

Exhibitor listing as of 2/24/10

ERICO **Booth #31**

ERICO is a leading global designer, manufacturer and marketer of precision-engineered specialty metal products serving niche markets in a diverse range of electrical, construction, utility and rail applications. ERICO is also proud if its LENTON® line of rebar splicing systems and other products utilized to connect steel reinforced rods in concrete. **Attend ERICO's product demonstration on Tuesday, March 23rd at 11:15 am in the River Exhibit Hall.**

The Euclid Chemical Co. **Table #1**

The Euclid Chemical Co., founded in 1910, is a worldwide supplier of quality products and services for the concrete and masonry industry. Euclid offers a full line of admixtures, and repair and maintenance products based on the latest technology. Euclid provides on-site service for guidance on proper product usage as well as complete specification assistance and laboratory support. To learn more about The Euclid Chemical Co., visit www.euclidchemical.com.

Forney Inc. **Table #11**

Forney Inc. is the leading manufacturer of testing equipment for the construction industry. Renowned as a new product innovator since 1916, Forney offers thousands of test products for the concrete, asphalt and soils industries. Working with the test labs of DOT's, universities and civil engineers, Forney, in its own way, helps make the world a safer place. Please visit www.forneyonline.com for more information.

Germann Instruments, Inc. **Booths #34 & 35**

Germann Instruments is the leader in nondestructive testing (NDT) of concrete structures. Their cutting-edge innovative product line includes: advance NDT Equipment for concrete testing. For Structural Integrity—Impact-Echo, Mash, MIRA/Eyecon 3-D Shear Wave Systems. Durability-Service Life, Rheometer, PROOVEit, Chloride & Profile. Freeze-thaw—EVA Analyzer & RapidAir. Fast-track construction—LOK-TEST, Coma-Meter. Corrosion survey—GalvaPulse, RapiCor. Repair quality—Bond-Test, CorroEye. **On Tuesday, March 23rd, Germann will present the latest NDT systems and their applications at 9:00 am in the River Exhibit Hall.** Visit www.germann.org for additional information.

Exhibitors

Exhibitor listing as of 2/24/10

Grace Construction Products **Booth #15**
Headquartered in Cambridge, MA, Grace Construction Products is a worldwide leading manufacturer of concrete admixtures and fibers, liquid pigments for colored concrete, cement processing additives, concrete masonry products, air and vapor barriers, roofing underlayments, self-adhered window, door and deck flashings, structural waterproofing systems, and fire protection products. Visit www.graceconstruction.com for additional information.

GSSI **Booth #27**
GSSI, the world leader in ground penetrating radar, exhibits the most advanced products used for the nondestructive inspection of concrete location and maps a target's depth with precision prior to cutting and coring with our innovative Structure Scan systems. Stop by our booth for a demonstration of the new Structure Scan Mini! **Attend our presentation "Introduction to Ground Penetrating Radar for Concrete Inspection" on Monday, March 22nd at 2:15 pm in the River Exhibit Hall.** For additional information, visit www.geophysical.com.

Humboldt Mfg. Co. **Table #13**
When it comes to construction materials testing equipment, Humboldt Mfg. Co. has the largest selection of equipment and the largest in-stock inventories for all your testing needs. Humboldt carries equipment for whatever aspect of materials testing you're involved in: fresh concrete testing or strength testing; non-destructive testing of concrete; cement testing; concrete flooring and floor coverings; testing aggregate properties, general laboratory equipment and more. Visit www.humboldtmfg.com for additional information.

International Concrete Repair Institute **Table #12**
ICRI, the International Concrete Repair Institute, is a leading resource for education and information to improve the quality of repair, restoration, and protection of concrete and other structures. Membership includes contractors, manufacturers, engineers, owners, and other professionals around the world with this common goal. Learn more about ICRI at www.icri.org.

Exhibitors

Exhibitor listing as of 2/24/10

James Instruments, Inc. **Booth #14**
James Instruments began in 1968 by supplying the now classic R meter rebar locator. James Instruments expanded product line of strength, ultrasonic, rebar location, corrosion, moisture and maturity provides updated technology to the non-destructive testing field. **Attend James Instruments demonstration of NDT testing equipment and applications on Tuesday March 23rd at 1:30 pm in the River Exhibit Hall.** For additional information, please visit www.ndtjames.com.

JE Tomes **Table #7**
JE Tomes and Associates manufactures specialty concrete products for the repair and restoration industry. Their color-matched product line sets the standard for restoration materials by significantly reducing the appearance of repairs. Their products include resurfacing and patching mortars, form and pour concretes, shotcretes, underlayments, self-leveling cements, and many more. Visit www.jetomes.com for additional information.

Kryton International Inc. **Booth #23**
Kryton develops, manufactures, and markets a wide range of products designed to waterproof, repair, and protect concrete structures. Developed in Kryton's dedicated concrete research laboratory and tested in the field for over 35 years, the Krystol Concrete Waterproofing System is the world's leading integral crystalline waterproofing technology. **Don't miss our presentation on Monday, March 22nd at 11:15 am in the River Exhibit Hall.** To learn more about Kryton, visit www.kryton.com.

James McHugh Construction Co. **Booth #4**
James McHugh Construction Co.'s innovative ideas are the driving force behind their history of providing concrete services on many of the Midwest's most complex structures. Regularly called on to provide expertise and critical insights on today's most technically demanding construction projects, McHugh offers techniques and capabilities that result in high quality, cost-saving approaches to projects. For additional information, visit www.mchughconstruction.com.

Exhibitors

Exhibitor listing as of 2/24/10

National Restoration Systems, Inc. **Booth #1**
National Restoration Systems, Inc. (NRS) features general contractors specializing in the restoration and protection of concrete and masonry structures. NRS has offices in both Chicago and Boston. For more information on our company, projects, and key employees, please visit www.nrsys.com.

Northeast Solite Corporation **Booth #10**
Northeast Solite Corporation proudly celebrates 60 years of providing the highest quality, most innovative, and ecologically sound construction products available today. Its two operating companies (Northeast Solite Corporation [1961] and Kentucky Solite Corporation [1972]) are backed up by two coal reserve companies, several strategically located distribution plants, development properties, and land holding companies for future expansion. For more information, visit www.nesolite.com.

Olson Engineering **Booth #32**
Olson Engineering specializes in nondestructive evaluation (NDE), infrastructure condition assessment and repair, structural health monitoring, geophysical and vibration engineering. Olson Instruments manufactures ultrasonic, sonic and seismic instruments for pavements, foundations, and structures as well as seismic surface wave, crosshole, downhole, reflection and refraction tests, and distributes IDS radar systems in the U.S. **Attend our demonstration on "Sonic, Radar, and Electrical Methods for Imaging Concrete and Rebar" on Tuesday, March 23rd at 12:45 pm in the River Exhibit Hall.**

Proceq USA Inc. **Booth #16**
Proceq USA Inc. offers a complete range of portable concrete testing instruments for nondestructive site investigations. Products include the Original SCHMIDT Concrete Test Hammer, Profometer 5+ Rebar Detection System, and a host of other products for ultrasonic pulse velocity, corrosion analysis, resistivity, permeability, and pulloff/bond strength test applications. **On Monday, March 22nd at 1:30 pm, Proceq will introduce the New SilverSchmidt Concrete Test Hammer in the River Exhibition Hall.** Visit www.proceq-usa.com for additional information.

Propex Concrete Systems – ELEMIX **Booths #25 & 26**
Propex is the world leader in supplying fibers for secondary concrete reinforcement to the construction market. Our synthetic fibers, steel fibers, and highly engineered fiber blends are designed to provide superior concrete crack control over the entire life span of the concrete. Visit www.fibermesh.com for additional information.

Exhibitors

Exhibitor listing as of 2/24/10

QuakeWrap Inc. **Booth #28**
QuakeWrap's award-winning technology provides solutions for repair and strengthening of structures using fiber-reinforced polymers (FRP) at a fraction of the time and cost of conventional methods. Within one integrated process, our highly-skilled engineers and construction crews create innovative solutions specifically tailored to clients. Applications include: beams, columns, walls, tanks, pipes, underwater piles, etc. **Join us Monday, March 22nd at 9:45 am in the River Exhibition Hall as we present "Super Laminates™, the Next Generation of FRP."** Please visit www.quakewrap.com for more information.

Robert H. Ward and Assoc., Inc. **Table #10**
We are in our 49th year of serving the repair industry, and are the nationally recognized shotcrete experts for the repair of concrete. Please stop by our table to view an excellent PowerPoint presentation of important projects completed, view one of the "secrets" to our success, or just to say hello.

School of Business and Economics at Michigan Technological University **Table #14**
The Michigan Tech MBA Online Program is changing the rules for online MBAs. Our 2-year online program focuses on innovation and technology management, the perfect complement to your career. Bridge the fields of technology and business to meet the demands of a constantly changing world. Stop by our table to learn more!

Sika Corporation **Booth #22**
Sika Corporation, based in Lyndhurst NJ, is a technology leader with 100 years of experience in concrete materials and restoration technology. Sika's innovative product line includes resins, structural strengthening systems, grouts, anchoring adhesives, overlays, industrial flooring, roofing systems, protective coatings and wood floor adhesive systems, and installation products. Full service sales and technical offices support our customers nationwide. Learn more about the Sika Corporation by visiting www.sikaconstruction.com.

Silica Fume Association **Booth #17**
The Silica Fume Association provides high-performance concrete and Silica Fume technology to design engineers and transportation authorities. As a valuable recycled waste material, Silica Fume offers unique properties to sustainable concrete structures. Learn more about the Silica Fume Association by visiting www.silicafume.org.

Exhibitors

Exhibitor listing as of 2/24/10

South Atlantic LLC **Table #8**
South Atlantic LLC is your premier source for hot dip galvanizing services and products. With five locations throughout the U.S. they are able to provide rapid, quality coating service for manufactures and fabricators. Their manufacturing operations have galvanized steel products, reinforcing bar, lintels, and ground rods and accessories in stock and ready for immediate shipment nationwide. **South Atlantic Galvanizing will present "Recent Research on Galvanized Rebar" on Monday, March 22nd at 12:00 noon in the River Exhibit Hall.** For additional information on our products, stop by our table or visit www.southatlanticllc.com.

Superior Gunite **Booth #7**
Superior Gunite has been in the gunite/shotcrete industry for over 50 years. Superior Gunite began with the very first pier repairs in the 1940s, and continue to develop and improve structural shotcrete. Superior Gunite consistently continues to meet the demanding challenges faced in construction today to remain the leader in the shotcrete marketpace with top quality work and on-time completion. In an industry where there is no substitute for experience, our company has an outstanding record. Contact Ron Federico at Ron.Federico@shotcrete.com for more information. **Observe a demonstration of shotcrete installation on Tuesday, March 23rd at 2:15 pm in the River Exhibit Hall.**

Taylor & Francis **Booth #12**
CRC Press & Routledge, members of the Taylor & Francis Group, are premier publishers of books, journals, and electronic databases in the field of civil engineering. Stop by the booth to peruse our latest offerings, pick up a free sample journal, and take advantage of special show offers.

Tekla, Inc. **Booth #9**
Tekla Structures is a Building Information Modeling (BIM) solution for concrete contractors, rebar detailers, and structural engineers. Tekla Structures provides a model-based solution where construction details are stored on 3D models. Details include concrete shapes, mix information rebar types, quantities and more. Drawings are generated automatically from the model. **Stop by Tekla's demonstration of BIM for the concrete industry on Monday, March 22nd at 12:45 pm in the River Exhibit Hall.** For more information, visit www.tekla.com.

Exhibitors

Exhibitor listing as of 2/24/10

Tilt-Up Design Systems, LLC **Table #6**
Tilt-Up Design Systems, LLC is a technology company providing a SaaS application, Tilt-Werks, that creates a complete tilt-up wall panel design from dimensional and engineering input. For additional information, visit www.tilt-werks.com.

University Transportation Center for Materials in Sustainable Transportation Infrastructure (UTC-MiSTI) at Michigan Technological University **Table #9**
The University Transportation Center for Materials in Sustainable Transportation Infrastructure (UTC-MiSTI) at Michigan Technological University conducts research, education, technology transfer, and workforce development to meet state and national transportation agency needs related to the construction and maintenance of infrastructure utilizing materials including portland cement concrete, geopolymer concrete, and supplementary cementious materials. **Learn more about the University Transportation Center for Materials in Sustainable Transportation Infrastructure at our presentation on Tuesday, March 23rd at 10:30 am in the River Exhibit Hall.**

Vector Corrosion Technologies **Booth #13**
Vector Corrosion Technologies offers a portfolio of solutions for concrete corrosion repair and protection that includes electrochemical chloride extraction, cathodic protection, and an array of galvanic protection systems, including embedded galvanic anodes, galvanic jackets, and activated arc-spray zinc metalizing. Vector also provides evaluation, repair, and mitigation services for post-tension corrosion and temperature-resistant composite strengthening systems. **Attend Vector's demonstration on Monday, March 22nd at 9:00 am in the River Exhibit Hall.** Contact Vector at 813-830-7566 or visit www.vector-corrosion.com.

Wiss, Janney, Elstner Associates, Inc. **Booth #36**
Wiss, Janney, Elstner Associates, Inc. (WJE) is an interdisciplinary architectural, engineering, and materials sciences firm specializing in investigation, analysis, and repair design services for historic and contemporary concrete buildings and structures. With more than 70,000 completed assignments, WJE is positioned as the industry leader in concrete problem solving. For additional information, visit www.wje.com.

Exhibitor Demonstrations

Exhibitors will demonstrate the capabilities of their company on Monday and Tuesday, March 22 and 23, from 9:00 am to 3:30 pm, in the River Exhibit Hall.

Monday Exhibitor Demonstration Schedule		
Time	**Exhibitor**	**Presentation/Demo Title**
9:00 am	Vector Corrosion Technologies	XMesh Gold cementitious fibre-reinforced structural strengthening
9:45 am	QuakeWrap Inc.	SuperLaminates™, the next Generation of FRP
10:30 am	BASF Construction Chemicals	Introducing a revolutionary workability admixture
11:15 am	Kryton	Integral waterproofing using KIM crystallization admixtures
12:00 pm	South Atlantic LLC	Recent research on galvanized rebar
12:45 pm	Tekla Inc.	BIM for the concrete industry
1:30 pm	Proceq	Introducing the new SilverSchmidt concrete test hammer
2:15 pm	GSSI	Introduction to ground penetrating radar for concrete inspection
3:00 pm	Engius LLC	IntelliRock and concrete maturity

Tuesday Exhibitor Demonstration Schedule		
Time	**Exhibitor**	**Presentation/Demo Title**
9:00 am	Germann Instruments	Latest NDT systems and their applications
9:45 am	Atlas Restoration LLC	Slab stabilization with polyurethane foam
10:30 am	Michigan Technological University	University Transportation Center for Materials in Sustainable Transportation Infrastructure (UTC-MiSTI) program highlights
11:15 am	Erico	LENTON and LENTON LOCK product demonstration
12:45 pm	Olson Engineering and Instruments	Sonic, radar, and electrical methods for imaging concrete and rebar
1:30 pm	James Instruments Inc.	NDT testing—equipment and applications
2:15 pm	Superior Gunite	Shotcrete installation

SPECIAL EVENTS

Special Events
Sunday, March 21, 2010

Convention #1 Breakfast **CHICAGO 8**
8:00 am-9:00 am
Sponsored by the ACI Convention Committee

Session Moderator: Kari Yuers
President & CEO
Kryton International, Inc.
Vancouver, BC, Canada

First-time convention attendees are invited to join Kari Yuers, Chair of the ACI Convention Committee, for a continental breakfast and a brief session on convention activities. Attendees will have the opportunity to meet other convention attendees and learn about the events to be held in the week ahead.

Sunday, March 21, 2010

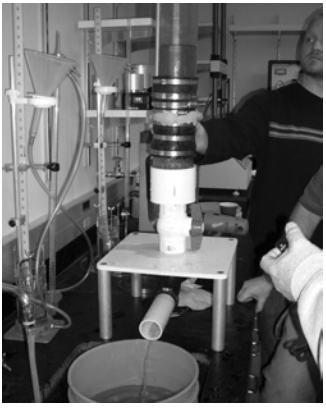
Student Pervious Concrete and FRC Bowling Ball Competitions **RIVER EXHIBIT HALL**
11:00 am-5:00 pm

Pervious Concrete Competition—sponsored by ACI Committee S801, Student Activities, the ACI Illinois Chapter, the Center for Maximum Potential Building Systems (CMPBS), and the U.S. Green Building Council® (USGBC®)

FRC Bowling Ball Competition—sponsored by ACI Committees 544, Fiber Reinforced Concrete, S801, Student Activities and the ACI Illinois Chapter

Thank you to Humboldt and Forney for donating the compression machines to be used in these competitions. Also, special thanks to Flood Testing Laboratories for transportation of the Humboldt machine.

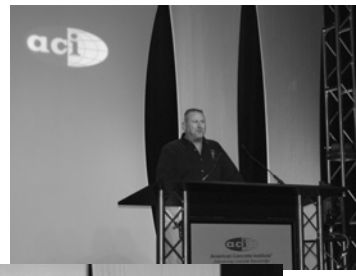
Session Moderator: Lawrence H. Taber
Structural Engineer
Black & Veatch
Kansas City, MO



ACI's nationally recognized student competitions offer students the opportunity to participate in interesting and educational concrete projects. This spring, students will compete in two competitions: the FRC Bowling Ball Competition and, for the very first time, the Pervious Concrete Competition. During the FRC Bowling Ball Competition, students will design and construct a fiber-reinforced concrete bowling ball that will achieve optimal performance under specified failure criteria and develop a fabrication process that produces a radial uniform density while maximizing volume. For the Pervious Concrete Competition, students will compete to create a pervious concrete specimen that maximizes permeability while maintaining a good splitting tensile strength. Come cheer on your favorite team during these spirited competitions!

Sunday, March 21, 2010

Opening Session & Awards Program **CHICAGO 6&7**
5:15 pm-6:30 pm



The ACI Spring 2010 Convention officially begins at the Opening Session. Here, ACI will recognize different individuals and groups for their contributions to ACI and achievements in the concrete industry. A full listing of awardees is listed on pages 97-99.

Opening Reception **RIVER EXHIBIT HALL**
6:30 pm-7:30 pm
Sponsored by the ACI Illinois Chapter

After the Opening Session, make your way to the exhibit hall to enjoy a beverage from a cash bar and light refreshments. What a great place to catch up with friends, network with concrete professionals, talk with exhibitors, and meet new convention attendees! This is a networking opportunity you won't want to miss!

Following the Opening Reception, experience one of Chicago's fine restaurants. Visit the ACI Illinios Chapter Desk for suggestions.

Sunday, March 21, 2010

Student and Young Professional Networking Event **CHI BAR**
9:00 pm-10:30 pm
Sponsored by the ACI Collegiate Concrete Council and the Student and Young Professional Activities Committee

The ACI Collegiate Concrete Council and the Student and Young Professional Activities Committee invite all convention attendees to the Student and Young Professional Networking Event. Meet fellow students and young professionals while networking with ACI members in a fun and casual environment. Attendees to the event will be entered into a drawing for door prizes. In addition, the bar will be open for attendees desiring to purchase beverages and/or appetizers.

Monday, March 22, 2010

✓Student Lunch **CHICAGO 6&7**

12:00 pm-2:00 pm

$50 U.S. per person; FREE to students who preregistered

Sponsored by Baker Concrete Construction, Inc.

BAKER CONCRETE CONSTRUCTION expect more

Coordinated by the ACI Illinois Chapter and ACI Committee S801, Student Activities

Speaker: George Tuhowski, III
General Superintendent and Director of Sustainability
Leopardo Companies
Hoffman Estates, IL

Topic: The Importance of Sustainable Design

Following lunch, the results of the Student Competitions will be announced. Then, featured speaker George Tuhowski III, LEED AP and General Superintendent and Director of Sustainability at Leopardo Companies, will discuss the importance of sustainable design and the significance of thinking "green" when designing future structures. Recently completed LEED projects in Chicago will be highlighted.

Monday, March 22, 2010

✓Reception Honoring Tony Fiorato **CHICAGO 9**
5:30 pm-7:00 pm
$35 U.S. per person
Sponsored by the ACI Illinois Chapter

Please join the ACI Illinois Chapter in honoring Tony Fiorato for his numerous contributions and accomplishments. Fiorato has served the industry in many ways, most notably as President of ACI during the centennial year and as Chairman of the Board of ASTM. He has been recognized as a Fellow of ACI; awarded the ACI Illinois Chapter's prestigious Henry Crown Award, the ACI Henry L. Kennedy Award, and the ACI Henry C. Turner Medal; and recognized by the Reinforced Concrete Research Council with the Arthur J. Boase Award. In 2008, Fiorato was inducted into the National Academy of Engineering. His research in the area of high-strength concrete and concrete durability is widely recognized and highly respected. Perhaps his most notable contributions are his tireless efforts to promote usable, consistent codes and standards and share his knowledge worldwide. The purpose of this reception, in addition to the technical sessions in his honor, is to recognize him for his outstanding long-time selfless dedication to the concrete industry. Hors d'oeuvres and a cash bar will be available.

Monday, March 22, 2010

✓William R. Tolley Retirement Celebration **CHICAGO 6&7**
7:30 pm-10:00 pm
$90 U.S. per person

Join other ACI friends and colleagues for a celebration dinner and toast in honor of William R. (Bill) Tolley's retirement from ACI. Tolley started his career at the American Concrete Institute in 1975 as the Manager of Administrative Services. Later he served as Senior Managing Director in which he oversaw conventions, education, certification, chapters, information technology and international activities. He was promoted to Executive Vice President in 2002.

Tolley is the President of the ACI Foundation and its three councils. In addition, he is the President of Creative Association Management (CAM), a subsidiary of ACI that manages other associations such as the International Concrete Repair Institute, American Shotcrete Association, Post-Tensioning Institute, and the Building Owners and Managers Association of Metropolitan Detroit (BOMA).

In addition to his service at ACI, he is the Chairman of the Concrete and Masonry Related Associations and has served as Treasurer, Board member, and Chair of the Finance and Administration Committee for the Council of Engineering and Scientific Society Executives (CESSE). Tolley is a Certified Association Executive and has been active in the American Society of Association Executives.

A Fellow of ACI, he received the ACI Henry L. Kennedy Award for his outstanding leadership in strengthening and expanding chapter activities. In 2006, he was named one of the 10 most influential people in the concrete industry.

Please join us in honoring Bill Tolley's dedication to and retirement from ACI during this very special event!

Tuesday, March 23, 2010

✓**Contractors' Day Lunch** **CHICAGO 7**
12:00 pm-2:00 pm
$55 U.S. per person
Hosted by the ACI Illinois Chapter and Construction Liaison Committee

Speaker: Bobby Hull
Retired Hockey Player
Chicago Blackhawks
Sarasota, FL

Topic: A Shot and a Goal!
Memoirs of the Golden
Era of Hockey

Join other ACI attendees and contractors for the Contractors' Day Lunch featuring Hockey Hall of Famer, Bobby Hull. Bobby Hull is regarded as one of the greatest ice hockey players of all time and perhaps the greatest left winger to ever play the game. He possessed the most feared slapshot in his day. In his 23 years in the National Hockey League and World Hockey Association, he played for the Chicago Blackhawks, Winnipeg Jets, and Hartford Whalers. Hull will regal the audience with anecdotes from his multifaceted career.

Tuesday, March 23, 2010

Concrete Mixer—The Blues! **SHERATON CHICAGO 4-10**
6:30 pm-8:00 pm
Sponsored by the ACI Illinois Chapter

Chicago is known worldwide as the home of the Blues. Be inspired by the music that was made popular in Chicago during the 1940s and 1950s by artists such as Muddy Waters, Willie Dixon, John Lee Hooker, Howlin' Wolf, and Elmore James, during the Blues-themed Concrete Mixer at the Chicago convention! The perfect place to network and relax as you enjoy great music, a taste of Chicago, and cocktails (and maybe a surprise guest or two!), courtesy of the ACI Illinois Chapter.

All ACI attendees MUST wear a name badge to attend. Please use the drink tickets found in your registration packet, or cash to purchase beverages.

Following the Concrete Mixer enjoy more great food at one of Chicago's spectacular eateries. Chicago is such a food lovers' paradise that the only dilemma you'll have is how to choose from so many delicious options. Visit the ACI Illinois Chapter Desk or the hotel concierge for suggestions.

Wednesday, March 24, 2010

✓**International Lunch** **CHICAGO 7**
12:00 pm-2:00 pm
$30 U.S. per person
Hosted by the ACI International Committee

Speaker: Vincent Mages
Vice President of Climate Change Initiatives
Lafarge Cement
Paris, France

Topic: World Business Council for Sustainable Development Cement (WBCSD) Sustainability Initiative

Join other ACI attendees for a special presentation from Vincent Mages at the International Lunch. Vincent Mages is the Vice President of Climate Change Initiatives at Lafarge Cement. Prior to this role, he was the Vice President of Group Internal Communications. Mr. Mages has occupied various positions in France and Japan, all which have been related to cement, aggregates, and gypsum activities, as well as in marketing business development and strategy. During his presentation, he will highlight the cement industry global initiatives to reduce CO_2, the WBCSD Cement Sustainability Initiative, and the role of cement and concrete in sustainable construction.

Thursday, March 25, 2010

✓ACI/PCA Simplified Design of Concrete Buildings of Moderate Size and Height Seminar **ONTARIO**
7:30 am Registration, coffee and pastries available
8:00 am-5:00 pm
$597 Non-Member Registration Fee
$457 ACI National Members Registration Fee
$125 Full-Time Students (with proof of enrollment)

Speakers:

Mahmoud Kamara
Senior Structural Engineer
Portland Cement Association
Skokie, IL

Lawrence C. Novak
Manager – Building Structures
Portland Cement Association
Skokie, IL

This one-day seminar will focus on the design of concrete buildings of moderate size and height, in accordance with the latest information in ACI 318-08, 2009 IBC, and ASCE 7-05. The purpose of this seminar is to provide civil, architectural, and structural engineers with ways to simplify design procedures, thus reducing the time required to analyze, proportion, and detail small to moderate size projects while still complying with ACI 318-08, "Building Code Requirements for Structural Concrete." Various design considerations that need to be addressed in the structural design and detailing of reinforced concrete buildings will be discussed. Numerous time-saving shortcuts and design aids will be introduced.

Guest Events

Sunday-Wednesday

✓Guest Hospitality **MICHIGAN A&B**
Continental Breakfast 7:00 am-10:00 am
Open to individuals who registered for the guest program ONLY.

Guest Suite **SUITE 829**
10:00 am-5:00 pm

Sunday, March 21, 2010

Guest Overview **MICHIGAN A&B**
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 2010 Convention in Pittsburgh and the ACI Spring 2011 Convention in Tampa.

Monday, March 22, 2010

Guest Tea **CHICAGO 6&7**
3:30 pm-5:00 pm
Please join Mrs. Lori Barth for afternoon tea. This is a wonderful opportunity to get to know other registered guests and enjoy a refreshing break! **A guest name badge is required to attend this event.**

Tours

Tour tickets may be purchased until 24 hours prior to the event based on availability.

All tours (except Aqua) will depart from the convention entrance.

Sunday, March 21, 2010

✓Wonderful Town Tour
9:30 am-1:00 pm
$43 U.S. per person

You'll see the important architecture and public art in the Chicago Loop, including the Merchandise Mart, Board of Trade, and Louis Sullivan's Auditorium Building from the motor coach. Then you'll rise 103 stories to the Willis Tower Skydeck for a completely different perspective of the city. Back at street level, you'll ride through Chicago's lakefront museums, Navy Pier, and breathtaking skyline. North of the Loop, you'll see the Magnificent Mile and Lincoln Park, then head west to see Oprah Winfrey's Harpo Studios, Greektown, many other landmarks and, finally, Hyde Park and the University of Chicago. Lunch is not included on this tour.

Monday, March 22, 2010

✓A Place in Time: The History and Architecture of Oak Park and River Forest
9:00 am-3:00 pm
$113 U.S. per person

At the turn of the century, the Chicago area was to become the living canvas for the spectacular work of Frank Lloyd Wright and his contemporaries. The natural landscape of Oak Park and River Forest was the setting for this revolution in Modern American Residential style. During this tour, you will visit the Frank Lloyd Wright home and studio, and Wright's first public building, the Unity Temple. Next, you'll tour the Ernest Hemingway home and museum. This day will include lunch at a historic café in old Oak Park. **Climbing stairs is required for this tour.**

✓=separate fee required

Tours

Tour tickets may be purchased until 24 hours prior to the event based on availability.

All tours (except Aqua) will depart from the convention entrance.

Monday, March 22, 2010 (cont.)

Aqua Building Presentation and Tour
Tour 1: 12:00 pm-1:30—SOLD OUT
Tour 2: 12:30 pm-2:00 pm—Registration Required
Meet at the Aqua Building—225 North Columbus Drive (approximately 4 blocks from Sheraton)
Coordinated by ACI Committee 124, Concrete Aesthetics

Take a tour of Aqua and hear from James McHugh Construction about how this striking new concrete tower was built. Aqua is an 82-story mixed-use residential skyscraper. To capture views of nearby landmarks, the architect stretched Aqua's balconies outward, resulting in the building's wave-like forms and irregularly shaped concrete floor slabs. **Note: The roof will be accessed by a fixed ladder. Please dress appropriately.**

Tuesday, March 23, 2010

✓Tour of Metropolitan Water Reclamation District Construction Upgrade
7:00 am-12:00 pm
$25 U.S. per person
The Metropolitan Water Reclamation District (MWRD) of Greater Chicago is currently constructing a large upgrade in its sewage treatment facilities to increase the capacity of its Calumet plant, located on the south side of the city. Construction began in January 2009 and is expected to continue through the fall of 2012. The district construction upgrade consists of 12 155 foot diameter primary settling tanks, an enclosed aerated grit removal facility, twin 96-inch diameter force mains, service tunnels, effluent conduits, utility relocation/replacement, and other appurtenances. A guided tour of the construction site will be given by both MWRD and contractor staff. **A valid photo ID such as a driver's license, state ID card, or passport must be provided to enter the plant facilities. Appropriate footwear (no open-toed shoes) is required.**

Tours

Tour tickets may be purchased until 24 hours prior to the event based on availability.

All tours (except Aqua) will depart from the convention entrance.

Tuesday, March 23, 2010 (cont.)

✓**Great Tastes of Chicago**
9:00 am-2:00 pm
$103 U.S. per person
Chicago is a Mecca for great chefs and outstanding food. Forget your diet and save your appetite for a day filled with mouth-watering treats during this incredible culinary tour. This tour will include a visit to an old-time ethnic bakery, an artisanal cheese maker, a unique chocolate shop, and lunch at one of Chicago's dynamic culinary schools. Additional stops include a spice shop and a specialty olive oil and vinegar store. **Please note that the use of stairs is required on this tour.**

Wednesday, March 24, 2010

✓**Chicago Architecture Tour**
8:45 am-1:00 pm
$69 U.S. per person
On foot, we'll tour Chicago's new and renewed buildings along Dearborn Street, including Daley Plaza with its landmark Picasso and surrounding State of Illinois and Chase Bank plazas filled with large-scale sculptures and murals that energize Chicago's Loop.
A cruise of the Chicago River and Lake Michigan is the most unique and interesting way to see the city. On this narrated 90-minute Lake and River Cruise, we'll see the best of Chicago's historic and state-of-the-art architecture and learn why Chicago is known as the "Architectural Capitol of the World." **Please note that the cruise sails rain or shine, so please dress in appropriate attire. Stairs are required to reach the cruise boat.** If for some reason the Coast Guard cancels the cruise due to high seas, the time will be spent visiting several architecturally significant buildings and exhibits, including the Rookery, Chicago Architecture Foundation, and the Chicago History Museum. Finally, we'll visit Millennium Park, a 26-acre park that features an ice rink, a 1500-seat indoor theatre for music and dance, the 120 foot high, 3000-seat Jay Pritzker Music Pavilion designed by Frank Gehry, and so much more.

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American Concrete Institute®
Advancing concrete knowledge

DAILY PROGRAM

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Friday, March 19, 2010

6:30 pm-9:00 pm

TAC	Technical Activities M1	COLORADO

Saturday, March 20, 2010

7:00 am-6:00 pm

TAC	Technical Activities M2	COLORADO

1:00 pm-3:00 pm

562-D	Eval Repair & Rehab - Struct Repair Design	ARKANSAS

1:00 pm-5:00 pm

EAC	Educational Activities M1	SUPERIOR A
301	Specifications M1	MICHIGAN A&B
562-F	Evaluation Repair & Rehab - General	OHIO

2:00 pm-6:00 pm

	Registration	RIVER EXHIBIT HALL

3:00 pm-5:00 pm

376	RLG Containment Structures M1	ARKANSAS

5:00 pm-9:00 pm

562-A	Eval, Repair & Rehab - Life Safety	ARKANSAS
562-C	Eval, Repair & Rehab - Structural Analysis	SUPERIOR A
562-E	Eval, Repair & Rehab - Durability Qlty Assurance	OHIO

7:00 pm-9:00 pm

347-A	Formwork - Specification	MISSOURI

Sunday, March 21, 2010

7:00 am-8:30 am

301-SC	Spec - Steering Committee	COLUMBUS B

7:30 am-5:00 pm

	Registration	RIVER EXHIBIT HALL

8:00 am-9:00 am

562-B	Eval, Repair & Rehab - Loads	COLORADO
562-Co	Eval, Repair & Rehab - Coordination Meeting	ONTARIO
	Convention #1 Breakfast	CHICAGO 8

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Sunday, March 21, 2010 (cont.)

8:00 am-9:30 am

341-C	Equake Res Brdgs-Retrofit	ARKANSAS

8:00 am-10:00 am

E706	Repair Application Procedures	ILLINOIS
S801	Student Activities	SUPERIOR B
506-A	Shotcreting - Evaluation	PARLOR F

8:00 am-10:30 am

CLC	Construction Liaison	OHIO

8:00 am-11:00 am

TAC-RG5	TAC Review Group 5	PARLOR C
445-B	Shear & Torsn - Seismic Shear	PARLOR G

8:00 am-12:00 pm

TAC-RG1	TAC Review Group 1	PARLOR A
TAC-RG2	TAC Review Group 2	PARLOR B
TAC-RG3	TAC Review Group 3	PARLOR D
TAC-RG4	TAC Review Group 4	PARLOR E

8:30 am-10:00 am

342	Bridge Evaluation	ERIE

8:30 am-10:30 am

546-B	Repair - Material Selection Guide	SUITE 929
549-A	Thin Reinforced - Glass Fiber-Reinforced Concrete	MISSISSIPPI

8:30 am-11:30 am

MEMC	Membership	MISSOURI
315-B	Detailing - Constructibility	HURON
350-C	Env Str - Reinf & Devel	COLUMBUS B
408	Development and Splicing	MAYFAIR
440-H	FRP - Reinforced Concrete	SUPERIOR A

8:30 am-12:00 pm

301	Specifications M2	CHICAGO 9

8:30 am-12:30 pm

347	Formwork	CHICAGO 10

9:00 am-11:00 am

551	Tilt-Up	ONTARIO

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Sunday, March 21, 2010 (cont.)

9:30 am-1:00 pm

	✓Wonderful Town Tour	DEPART CONVENTION ENTRANCE

9:00 am-5:00 pm

376	RLG Containment Structures M2	COLORADO

9:30 am-11:00 am

341-D	Perf Based Seismic Design	ARKANSAS

9:30 am-2:00 pm

549	Thin Reinforced	CHICAGO 8

10:00 am-11:30 am

E701	Materials for Concrete Construction	ILLINOIS
IC-Part	International Partnerships & Publications	PARLOR F

10:00 am-1:00 pm

228	Nondestructive Testing	ERIE
421	Reinf Slabs	SUPERIOR B

10:00 am-3:00 pm

301-F	Spec - Precast Concrete Panels	SUITE 830

10:30 am-11:30 am

546-C	Repair - Guide	SUITE 929

10:30 am-1:00 pm

370	Dynamic & Vibratory Effects	OHIO

10:30 am-1:30 pm

445-A	Shear & Torsn - Strut & Tie	MISSISSIPPI

11:00 am-12:30 pm

341-A	Equake Res Brdgs - Columns	ARKANSAS

11:00 am-1:00 pm

506-G	Qualifications for Projects	ONTARIO

11:00 am-2:00 pm

TAC	Technical Activities M3	PARLOR C

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Sunday, March 21, 2010 (cont.)

11:00 pm-5:00 pm

	Student Pervious Concrete and FRC Bowling Ball Competitions	RIVER EXHIBIT HALL

11:30 am-1:00 pm

HTC	Hot Topic	PARLOR G
221	Aggregates	MAYFAIR
335	Composite Hybrid	MISSOURI
350-SC	Env Str - Steering Comm	ILLINOIS
374-TG2	Protocol for Testing RC Structural Elements	COLUMBUS B
548-C	Structural Polymer Design	SUITE 929

11:30 am-5:00 pm

562	Eval, Repair & Rehab	SUPERIOR A

12:30 pm-2:00 pm

130-F	Social Issues	PARLOR E
445-E	Shear & Torsn - SOA Torsion	PARLOR F

12:30 pm-3:30 pm

301-H	Spec -Tilt-Up Constr & Arch Conc	HURON

1:00 pm-3:00 pm

301-E	Spec - Prestressed Concrete	PARLOR A
345	Bridge Construction	MAYFAIR
445-C	Shear & Torsn - Punching Shear	PARLOR G

1:00 pm-4:00 pm

BAC-SD	Board Advisory Committee on Sustainable Development	MICHIGAN A&B

1:00 pm-5:00 pm

301-C	Spec - Placing Consolidating & Curing	SUITE 929
301-D	Spec - Lightweight & Massive Concrete	COLUMBUS B
301-G	Spec - Shrink Comp Conc & Ind Floor Slabs	PARLOR B
336	Footings	ONTARIO
355	Anchorage	ERIE

1:30 pm-3:00 pm

209-A	Statistic Procedures	LINCOLN
341-B	Equake Res Brdgs - Pier Walls	ARKANSAS
440-D	FRP - Research	MISSISSIPPI

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Sunday, March 21, 2010 (cont.)

1:30 pm-5:00 pm

350-E	Env Str - Precast/Prestressed	PARLOR D

2:00 pm-3:00 pm

506-B	Shotcreting - Fiber Reinforced	CHICAGO 8
548-TG	Polymers - TG	PARLOR E

2:00 pm-3:30 pm

C650	Tilt-Up Constructor Cert	OHIO
236-B	Material Science - Transport Mechanisms	COLUMBUS A

2:00 pm-4:00 pm

215	Fatigue	ILLINOIS
305	Hot Weather	CHICAGO 9

2:00 pm-5:00 pm *Sessions*

	Durability and Long-Term Performance of SCC	SHERATON 2
	Durability for Concrete of Pavements	SHERATON 1
	Incorporating the ASCE Body of Knowledge	SHERATON 5
	Innovations in Fire Design of Concrete Structures	SHERATON 4
	Ultra High-Performance Concrete for Bridges	SHERATON 3

2:00 pm-5:00 pm

RCC	Responsibility	PARLOR C
309	Consolidation	PARLOR F
315	Detailing	CHICAGO 10
352	Joints	SUPERIOR B

2:30 pm-5:00 pm

224	Cracking	MISSOURI

3:00 pm-4:30 pm

441-E	Columns Multi-Spiral Reinf	PARLOR A

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Sunday, March 21, 2010 (cont.)

3:00 pm-5:00 pm

E601	Seminar Oversight Committee	SUITE 830
121	Quality Assurance	LINCOLN
201-A	Durability - Sulfate Attack	MAYFAIR
341	Earthquake Resistant Bridges	CHICAGO 8
423/445	Adhoc Grp on Shear in Prestress Conc	PARLOR G
440-L	FRP - Durability	MISSISSIPPI
550	Precast Structures	ARKANSAS

3:30 pm-5:00 pm

Intl-Cert	International Certification	COLUMBUS A
236-D	Material Science - Nanotechnology of Concrete M1	HURON
439-A	Steel Reinf - Wire	OHIO

4:00 pm-5:00 pm

S805	Collegiate Concrete Council	ILLINOIS
123	Research	MICHIGAN A&B

5:15 pm-6:30 pm

	Opening Session & Awards Program	CHICAGO 6&7

6:30 pm-7:30 pm

	Opening Reception	RIVER EXHIBIT HALL

7:30 pm-10:00 pm

	123 Forum: Fly Ash Contributes to Sustainable Concrete Construction – Is It Justified to Reclassify the Material as a Hazardous Waste?	SHERATON 3

9:00 pm-10:30 pm

	Student and Young Professional Networking Event	CHI BAR

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

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Monday, March 22, 2010

6:30 am-8:15 am

	Workshop for Technical Committee Chairs	CHICAGO 6&7

7:00 am-8:30 am

	Speaker Skills Training Breakfast: Teaching Methods and Educational Materials	CHICAGO 9

7:15 am-8:30 am

IC-Conf	International Conferences	PARLOR F

7:30 am-8:30 am

	Chapter Forum	ERIE

8:00 am-5:00 pm

	Registration and Exhibits	RIVER EXHIBIT HALL

8:15 am-10:00 am

351-B	Grtng Fndns - Equip Machnry	SUITE 929

8:30 am-9:30 am

343-B	Bridge Deck Design	SUITE 836

8:30 am-10:00 am

S802	Teaching Methods and Educational Materials	PARLOR B
118	Computers	PARLOR F
130-A	Materials	HURON
439	Steel Reinforcement	PARLOR C
440-G	FRP - Student	OHIO
524	Plastering	ERIE
544-B	FRC - Education	COLORADO

8:30 am-10:30 am

PUBC	Publications	LINCOLN
506-C	Shotcreting - Guide	SUITE 930

8:30 am-11:00 am

355-TG	Anchorage TG	ONTARIO
548-A	Polymers - Overlays	COLUMBUS A

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Monday, March 22, 2010 (cont.)

8:30 am-11:30 am

C610	Field Technician Cert	CHICAGO 10
209	Creep & Shrinkage	SUITE 1029
311	Inspection	ARKANSAS
437	Strength Evaluation	SUPERIOR A
543	Piles	SUITE 830
546	Repair	CHICAGO 9

8:30 am-12:00 pm

301-A	Spec - Gen Req, Definitions & Tolerances	PARLOR A
301-B	Spec - Formwork & Reinforcement	SUITE 936
362-A	Parking Str - Standard	PARLOR D

8:30 am-12:30 pm

374	Seismic Design	MAYFAIR

8:30 am-1:00 pm

302	Floor Construction	CHICAGO 8
350-B	Env Str - Durability	PARLOR G

8:30 am-5:00 pm

313	Bins & Silos	ILLINOIS

8:30 am-6:30 pm

350-D	Env Str - Structural	PARLOR E

9:00 am-11:00 am

365	Service Life	MISSOURI

9:00 am-12:00 pm *Sessions*

Extreme Tilt-Up Performance: Design to Construction, Part 1	SHERATON 2
Recent Advances in Maintenance and Repair of Concrete Bridges	SHERATON 5
Research in Progress	SHERATON 1
Technical Session in Honor of Tony Fiorato, Part 1	SHERATON 4
Textile Reinforced Concrete—Modern Developments, Part 1	SHERATON 3

Daily Program

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✓ **Separate fee required** **TG = Task Group**

Monday, March 22, 2010 (cont.)

9:00 am-1:00 pm

423	Prestressed	SUPERIOR B

9:00 am-3:00 pm

	✓A Place in Time: The History Architecture of Oak Park and River Forest	DEPART CONVENTION ENTRANCE

9:00 am-5:00 pm

376-TG	RLG Containment Structures-TG M1	MISSISSIPPI

9:30 am-3:30 pm

	Exhibitor Demostrations	RIVER EXHIBIT HALL

9:30 am-10:30 am

343-A	Design	SUITE 836

10:00 am-11:00 am

130-B	Production/Transport/Construction	SUITE 929

10:00 am-11:30 am

440-K	FRP - Material Characteristics	PARLOR C

10:00 am-12:00 pm

445-D	Shear & Torsn - Database	PARLOR B

10:00 am-12:30 pm

349-C	Nuclear Str - Anchorage	HURON

10:00 am-1:00 pm

207	Mass Concrete	ERIE
216	Fire Resistance	OHIO
232-A	Fly Ash - Use of Nat Pozzolans	PARLOR F
343	Bridge Design	COLORADO

10:30 am-11:30 am

318-ETG 1	Slabs	SUITE 836

10:30 am-12:00 pm

124	Aesthetics	LINCOLN

10:30 am-12:30 pm

506-E	Shotcreting - Specifications	SUITE 930

Daily Program

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✓ **Separate fee required** **TG = Task Group**

Monday, March 22, 2010 (cont.)

11:00 am-1:00 pm

130-E	Design/Specifications/Codes/Regulations	MISSOURI
351	Equip Foundations	ONTARIO
548-B	Adhesives in Concrete	COLUMBUS A

11:30 am-1:00 pm

201-D	Durability - Oversight Committee	SUITE 830
304	Measuring/Mix/Trans/Placing	ARKANSAS
346	CIP Pipe	SUITE 836
544-A	FRC - Production & Applications	MICHIGAN A&B

11:30 am-2:00 pm

314	Simplified Design Buildings	CHICAGO 10
441	Columns	SUPERIOR A
447	Finite Element Analysis	SUITE 1029

12:00 pm-1:30 pm

	Aqua Building Presentation and Tour 1 (SOLD OUT)	MEET AT AQUA BUILDING

12:00 pm-2:00 pm

	✓Student Lunch	CHICAGO 6&7

12:30 pm-2:00 pm

	Aqua Building Presentation and Tour 2 (Registration Required)	MEET AT AQUA BUILDING

1:00 pm-2:30 pm

C631	Conc Transportation Const Insp	PARLOR A
ISO/TC 71	ISO/TC 71 Advisory Cmte	MAYFAIR
228-TG	Nondestructive Testing TG	SUITE 936
350-H	Env Str - Editorial	SUITE 830

1:00 pm-3:00 pm

C660	Shotcrete Nozzleman Cert	COLORADO

1:00 pm-3:30 pm

375	Design for Wind Loads	SUITE 929

1:00 pm-4:00 pm

225	Hydraulic Cements	PARLOR D
232	Fly Ash & Natural Pozzolans	CHICAGO 9
237	Self-Consolidating Concrete	ONTARIO

Daily Program

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Monday, March 22, 2010 (cont.)

1:00 pm-5:00 pm

301	Specifications M3	SUPERIOR B
362	Parking Structures	HURON

1:30 pm-3:00 pm

440-J	FRP - Stay in Place Forms	MICHIGAN A&B

2:00 pm-3:00 pm

ITG-6	High-Strength Steel Reinforcement	PARLOR G
SCO	Scholarship Council M2	SUITE 1537

2:00 pm-3:30 pm

ACI 318/ ASCE7	ACI 318/ASCE7 Coordination	SUITE 836
231	Early Age	OHIO
318-S	Spanish Translation	ERIE
544-E	FRC - Mechanical Properties	PARLOR B

2:00 pm-5:00 pm *Sessions*

	Effects of Micro- and Macro-cracking on Durability	SHERATON 5
	Extreme Tilt-Up Performance: Design to Construction, Part 2	SHERATON 2
	Serviceability Limit States for Concrete Structures	SHERATON 1
	Technical Session in Honor of Tony Fiorato, Part 2	SHERATON 4
	Textile Reinforced Concrete—Modern Developments, Part 2	SHERATON 3

2:00 pm-5:00 pm

MKTC	Marketing	LINCOLN
130	Sustainability M1	CHICAGO 8
307	Chimneys	SUITE 930
318-B	Reinforcement & Development M1	SUPERIOR A
349-A&B	Nuclear Structures - Design & Materials	COLUMUS A&B
364	Rehabilitation	MISSOURI

Daily Program

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Monday, March 22, 2010 (cont.)

2:00 pm-6:00 pm

369	Seismic Rehab	ARKANSAS
445	Shear & Torsion	PARLOR C

2:00 pm-6:30 pm

212	Chemical Admixtures	PARLOR F
360	Slabs on Ground	CHICAGO 10

2:30 pm-4:00 pm

533	Precast Panels	MAYFAIR

2:30 pm-5:00 pm

CAC	Chapter Activities	SUITE 1029

3:00 pm-4:00 pm

506-F	Shotcreting - Underground	SUITE 936

3:00 pm-5:00 pm

373	Prestressed/Tendons	PARLOR G

3:00 pm-6:00 pm

440-F	FRP - Repair Strengthening	MICHIGAN A&B

3:30 pm-5:00 pm

211-P	Guide for Selecting Proportions for Pumpable Concrete	PARLOR B
214	Strength Tests	OHIO
318-L	International Liaison	SUITE 836
446	Fracture Mechanics	SUITE 929

3:30 pm-6:00 pm

544-D	FRC - Structural Uses	ERIE

3:30 pm-6:30 pm

350-J	Env Str - Education	SUITE 830
435	Deflection	PARLOR A

4:00 pm-6:00 pm

117-TG	Tolerances Task Group	COLORADO
201-E	Salt Weathering/Salt Attack	PARLOR D
	Beer Garden	RIVER EXHIBIT HALL

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Monday, March 22, 2010 (cont.)

4:30 pm-5:30 pm

236	Material Science	ONTARIO

5:00 pm-6:00 pm

	Women in ACI Reception	MAYFAIR

5:00 pm-6:30 pm

E702	Designing Concrete Structures	HURON
318-TGF	TGF - Foundation	SUITE 836
555	Recycled	SUPERIOR B

5:00 pm-7:00 pm

E703	Concrete Construction Practices	SUITE 930

5:30 pm-7:00 pm

	✓Reception Honoring Tony Fiorato	CHICAGO 9

7:30 pm-10:00 pm

	✓William R. Tolley Retirement Celebration	CHICAGO 6&7

Tuesday, March 23, 2010

7:00 am-8:30 am

TTTC	TAC Technology Transfer	MISSOURI

7:00 am-9:00 am

563-C	Excavation/Surface Preparation	SUITE 936
563-FG	Mixtures/Placing/Curing	SUITE 1029
563-I	Proprietary Grouts/Concrete	PARLOR A
563-L	Prestressed Concrete	MICHIGAN B
563-MN	Polymer Concrete Overlays/ Protection Systems	COLUMBUS A&B

7:00 am-12:00 pm

	✓Technical Tour of Metropolitan Water District	DEPART CONVENTION ENTRANCE

7:30 am-9:00 am

130-G	Education/Certification	MISSISSIPPI

8:00 am-10:00 am

211-C	Proportioning - No Slump	SUITE 930
230	Soil Cement	SUITE 830
444	Experimental Analysis	PARLOR E

Daily Program

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✓ **Separate fee required** **TG = Task Group**

Tuesday, March 23, 2010 (cont.)

8:00 am-10:30 am

325-A	Pavements - Design	PARLOR D

8:00 am-12:00 pm

EAC	Educational Activities M2	PARLOR B

8:00 am-5:00 pm

	Registration and Exhibits	RIVER EXHIBIT HALL

8:30 am-10:00 am

C620	Laboratory Tech Cert	OHIO
238	Workability of Fresh Concrete	SUITE 929
523-A	Cellular - Autoclaved Aerated	PARLOR C

8:30 am-10:30 am

IJBRC	Intl Joints & Bearings Research	COLORADO
318	Building Code M1	CHICAGO 6
357	Offshore & Marine	ILLINOIS
548	Polymers	HURON

8:30 am-11:30 am

201	Durability	CHICAGO 10
306	Cold Weather	ARKANSAS
348	Safety	PARLOR G
350-G&K	Env Str - Tightness Testing/Haz Mat	LINCOLN
440	Fiber Reinforced Polymer	CHICAGO 8
506	Shotcreting	ERIE
522	Pervious Concrete	CHICAGO 9

8:30 am-12:00 pm

117	Tolerances	MAYFAIR

8:30 am-12:30 pm

349	Nuclear Structures M1	SUPERIOR A&B

8:30 am-3:30 pm

350-F	Env Str - Seismic	PARLOR F

9:00 am-10:00 am

332-D	Residential Concrete - Footings & Foundation Walls	ONTARIO

Daily Program

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Tuesday, March 23, 2010 (cont.)

9:00 am-10:30 am

122	Thermal Properties	SUITE 836

9:00 am-11:00 am

563-H	Architectural/Precast Concrete	SUITE 1029
563-JK	Crack Repair/External Reinforcement	PARLOR A
563-P	Corrosion	COLUMBUS A&B

9:00 am-11:30 am

IC	International Committee	MISSISSIPPI

9:00 am-12:00 pm *Sessions*

	Advances in the Material Science of Concrete, Part 1	SHERATON 1
	Concrete Repair—Xtreme Conditions, Part 1	SHERATON 3
	Design Using the Strut-and-Tie Method: Examples and Approaches, Part 1	SHERATON 2
	Extreme Concrete History	SHERATON 4
	Structural Health Monitoring for Bridge Design and Evaluation	SHERATON 5

9:00 am-12:00 pm

TRRC	TAC Repair & Rehab	SUITE 936

9:00 am-1:00 pm

ITG-8	ITG-8 Perform Criteria for Conc Matrls	MICHIGAN B

9:00 am-2:00 pm

	✓Great Tastes of Chicago	DEPART CONVENTION ENTRANCE

9:00 am-3:30 pm

	Exhibitor Demonstrations	RIVER EXHIBIT HALL

9:00 am-5:00 pm

376-TG	RLG Containment Structures TG M2	MISSOURI

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Tuesday, March 23, 2010 (cont.)

10:00 am-11:00 am

130-C	Structures in Service	OHIO
332-E	Residential Concrete - Above Grade Walls	ONTARIO

10:00 am-11:30 am

C630	Construction Inspector Cert	PARLOR E

10:00 am-12:00 pm

211-A	Proportioning - Editorial	SUITE 830
327	RCC Pavements	SUITE 929

10:00 am-1:00 pm

371	Elevated Tanks with Concrete Pedestals	SUITE 930
523	Cellular Concrete	PARLOR C

10:30 am-12:00 pm

325-C	Pavements - Prestressed and Precast	PARLOR D
544-F	FRC - Durability	HURON

11:00 am-12:00 pm

332-B&C	Residential Concrete Materials & Placement	OHIO

11:00 am-1:00 pm

CRC	Concrete Research Council	COLUMBUS A&B
130	Sustainability of Concrete M2	CHICAGO 6

11:30 am-1:00 pm

211-E	Proportioning - Evaluation	PARLOR E
213-TG	Lightweight - Editorial TG	PARLOR A
223-D	Shr Compensating - Non Reinforced Concrete or Mortar	LINCOLN
515	Protective Systems	ERIE

11:30 am-2:00 pm

552	Cementitious Grouting	MISSISSIPPI

11:30 am-3:30 pm

350-A	Env Str - General & Concrete	PARLOR G

12:00 pm-2:00 pm

	✓Contractors' Day Lunch	CHICAGO 7

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Tuesday, March 23, 2010 (cont.)

12:30 pm-2:00 pm

C640	Craftsman Cert	SUITE 1029

1:00 pm-2:00 pm

223-C	Shr Compensating - Constr	ARKANSAS
325-D	Proportioning for Pavements	SUITE 929
332-F	Residential Concrete - Slabs	OHIO

1:00 pm-3:00 pm

NPTF	EAC New Programs Task Force	SUPERIOR A&B
201-C	Durability - Condition Report	SUITE 930
211-I	Assessing Aggregate Gradation	PARLOR D
236-D	Material Science - Nanotechnology of Concrete M2	PARLOR E

1:00 pm-6:30 pm

318-A	General Concrete Constr	ILLINOIS
318-C	Serviceability/Safety	MICHIGAN B
318-H	Seismic Provisions	MAYFAIR
318-R	Code Reorganization	COLORADO

1:30 pm-3:00 pm

120	History	MICHIGAN A
213	Lightweight	COLUMBUS A&B

2:00 pm-3:30 pm

234	Silica Fume	OHIO
325-E	Accelerated Paving	PARLOR A
544-C	FRC - Testing	CHICAGO 6

2:00 pm-4:00 pm

130-D	Rating Systems/Sustainabilty Tools	CHICAGO 8
211-F	Proportioning - Submittal	SUITE 830

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Tuesday, March 23, 2010 (cont.)

2:00 pm-5:00 pm *Sessions*

	Hot Topic Session: Reconstruction Efforts in Haiti	CHICAGO 9
	Advances in the Material Science of Concrete, Part 2	SHERATON 1
	Concrete Repair—Xtreme Conditions, Part 2	SHERATON 3
	Contractors' Day Session: Xtreme Local Projects	SHERATON 4
	Design Using the Strut-and-Tie Method: Examples and Approaches, Part 2	SHERATON 2
	Open Paper Session	SHERATON 5

2:00 pm-5:00 pm

CPC	Certification Programs	LINCOLN
222	Corrosion	HURON
223	Shrinkage Compensating	MISSISSIPPI
229	Controlled Low Strength	PARLOR C
235	Electronic Data Exchange	PARLOR B
310	Decorative Concrete	SUITE 929
332	Residential Concrete	ARKANSAS
349	Nuclear Structures M2	CHICAGO 10
563	Specs for Repair of Struct Conc in Bldgs	SUITE 1029

2:00 pm-6:00 pm

233	Slag Cement	ERIE

3:00 pm-5:00 pm

CC	Convention Committee M2	ONTARIO
211-N	Proportioning with Ground Limestone and Material Fillers	PARLOR D
372	Prestressed/Wire Wrapped	SUITE 930

3:00 pm-6:00 pm

131	BIM	PARLOR E

3:30 pm-5:00 pm

363-A	High-Strength Lightweight Concrete	PARLOR A

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Tuesday, March 23, 2010 (cont.)

3:30 pm-5:30 pm

325	Pavements	MICHIGAN A

3:30 pm-6:00 pm

544	Fiber-Reinforced Concrete	SUPERIOR A&B

4:00 pm-6:00 pm

350-L	Env Str - Specification	PARLOR G
	Beer Garden	RIVER EXHIBIT HALL

4:30 pm-6:00 pm

308/213	Guide on Internal Curing	OHIO

5:00 pm-6:00 pm

	Faculty Network Reception	COLUMBUS A&B

6:30 pm-8:00 pm

	Concrete Mixer – The Blues!	SHERATON CHICAGO 4-10

Wednesday, March 24, 2010

7:00 am-8:30 am

ACI/ASCE	ACI/ASCE Coordination	MISSISSIPPI

7:00 am-9:00 am

SYPAC	Student & Young Professional Activities	ARKANSAS

7:00 am-10:00 am

TSC	TAC Specifications	OHIO

8:00 am-10:30 am

308-B	Curing - Specifications	SUITE 929

8:00 am-12:00 pm

	Registration	RIVER EXHIBIT HALL

8:00 am-1:30 pm

318-B	Reinforcement & Development M2	HURON
318-D	Flexure & Axial Loads	COLORADO
318-E	Shear & Torsion	MISSOURI
318-G	Prestressed Precast	ERIE

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Wednesday, March 24, 2010 (cont.)

8:30 am-11:30 am

211	Proportioning	CHICAGO 9
303	Architectural CIP	CHICAGO 8
330-TG	Parking Lots & Site Paving TG	MISSISSIPPI
363	High-Strength	ONTARIO
560	Design & Constr ICFs	MAYFAIR

8:30 am-6:30 pm

350	Environmental Structures	SUPERIOR A&B

8:45 am-1:00 pm

	✓Chicago Architecture Tour	DEPART CONVENTION ENTRANCE

9:00 am-11:00 am

329	Perf Ready Mixed	CHICAGO 10

9:00 am-12:00 pm *Sessions*

Building Information Modeling in the Concrete Industry, Part 1	SHERATON 4
Frontiers in the Use of Polymers in Concrete, Part 1	SHERATON 2
International Session: Tall Buildings	SHERATON 1
Quality Management Systems in the Concrete Industry	SHERATON 5
What About Adhesive Anchors? Part 1	SHERATON 3

9:00 am-12:00 pm

ACIFdn	ACI Foundation	ILLINOIS

9:00 am-5:00 pm

376-TG	RLG Containment Structures TG M3	ARKANSAS

10:00 am-12:30 pm

C601-B	Concrete Quality Technical Mgr	OHIO

10:30 am-1:00 pm

308-A	Curing - Guide	SUITE 929

Daily Program

All schedule and location changes will be posted daily in the River Exhibition Hall.

✓ **Separate fee required** **TG = Task Group**

Wednesday, March 24, 2010 (cont.)

11:30 am-1:00 pm

C601-D Decorative Concrete Finisher MAYFAIR

12:00 pm-2:00 pm

✓International Lunch CHICAGO 7

1:00 pm-4:00 pm

330 Parking Lots & Site Paving OHIO

2:00 pm-5:00 pm *Sessions*

Building Information Modeling in the Concrete Industry, Part 2 SHERATON 4

Frontiers in the Use of Polymers in Concrete, Part 2 SHERATON 2

International Forum for International Chapters and Partners SHERATON 1

Sustainable Design in Structural Concrete SHERATON 5

What About Adhesive Anchors? Part 2 SHERATON 3

2:00 pm-5:00 pm

308 Curing MAYFAIR

2:30 pm-6:30 pm

318 Building Code M2 CHICAGO 8

Thursday, March 25, 2010

8:00 am-5:00 pm

✓ACI/PCA Simplified Design of Reinforced Concrete Buildings of Moderate Size and Height Seminar ONTARIO

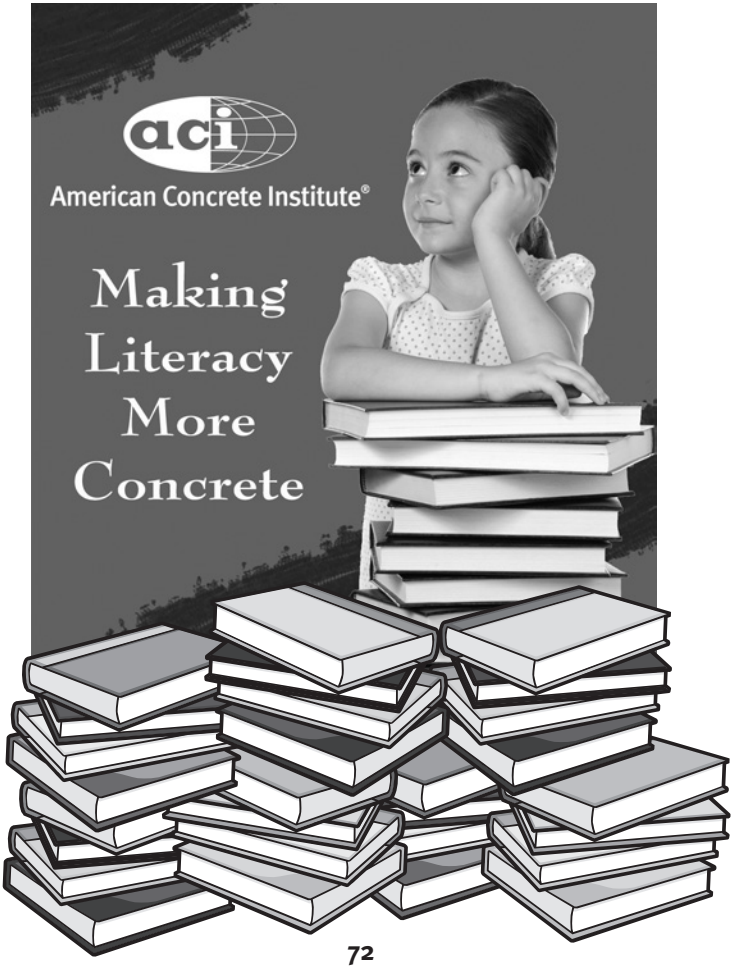
10:00 am-5:00 pm

BOD Board of Direction SHERATON 1

ACI Book Drive
Making Literacy More Concrete!

ACI is conducting a book drive during the ACI Spring 2010 Convention, in an effort to promote literacy. Bring a new or gently used book for children in grades K-12, to help us reach our goal of 1200 books! Donations may be made at the ACI Illinois Chapter Desk outside the River Exhibit Hall.

Donated books will be given to Book Worm Angels is a non-profit organization founded to help children in underachieving Chicago Public Schools strengthen their reading skills and develop a love for reading. Book Worm Angels helps to establish classroom lending libraries for recreational reading in an easily administered program involving principals, teachers, reading specialists, and parents/caregivers. To learn more about Book Worm Angels, visit www.bookangels.org.



NUMERIC

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
ACI 318/ ASCE7	ACI 318/ASCE7 Coordination	Mon	2:00 pm-3:30 pm	SUITE 836
ACI/ ASCE	ACI/ASCE Coordination	Wed	7:00 am-8:30 am	MISSISSIPPI
ACIFdn	ACI Foundation	Wed	9:00 am-12:00 pm	ILLINOIS
BAC-SD	Board Advisory Committee on Sustainable Development	Sun	1:00 pm-4:00 pm	MICHIGAN A&B
BOD	Board of Direction	Thu	10:00 am-5:00 pm	SHERATON 1
C601-B	Concrete Quality Technical Mgr	Wed	10:00 am-12:30 pm	OHIO
C601-D	Decorative Concrete Finisher	Wed	11:30 am-1:00 pm	MAYFAIR
C610	Field Technician Cert	Mon	8:30 am-11:30 am	CHICAGO 10
C620	Laboratory Tech Cert	Tue	8:30 am-10:00 am	OHIO
C630	Construction Inspector Cert	Tue	10:00 am-11:30 am	PARLOR E
C631	Conc Transportation Const Insp	Mon	1:00 pm-2:30 pm	PARLOR A
C640	Craftsman Cert	Tue	12:30 pm-2:00 pm	SUITE 1029
C650	Tilt-Up Constructor Cert	Sun	2:00 pm-3:30 pm	OHIO
C660	Shotcrete Nozzleman Cert	Mon	1:00 pm-3:00 pm	COLORADO
CAC	Chapter Activities	Mon	2:30 pm-5:00 pm	SUITE 1029
CC	Convention Committee M2	Tue	3:00 pm-5:00 pm	ONTARIO
CLC	Construction Liaison	Sun	8:00 am-10:30 am	OHIO
CPC	Certification Programs	Tue	2:00 pm-5:00 pm	LINCOLN
CRC	Concrete Research Council	Tue	11:00 am-1:00 pm	COLUMBUS A&B
E601	Seminar Oversight Committee	Sun	3:00 pm-5:00 pm	SUITE 830
E701	Materials for Concrete Construction	Sun	10:00 am-11:30 am	ILLINOIS
E702	Designing Concrete Structures	Mon	5:00 pm-6:30 pm	HURON
E703	Concrete Construction Practices	Mon	5:00 pm-7:00 pm	SUITE 930
E706	Repair Application Procedures	Sun	8:00 am-10:00 am	ILLINOIS

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
EAC	Educational Activities M1	Sat	1:00 pm-5:00 pm	SUPERIOR A
EAC	Educational Activities M2	Tue	8:00 am-12:00 pm	PARLOR B
HTC	Hot Topic	Sun	11:30 am-1:00 pm	PARLOR G
IC	International Committee	Tue	9:00 am-11:30 am	MISSISSIPPI
IC-Conf	International Conferences	Mon	7:15 am-8:30 am	PARLOR F
IC-Part	International Partnerships & Publications	Sun	10:00 am-11:30 am	PARLOR F
IJBRC	Intl Joints & Bearings Research	Tue	8:30 am-10:30 am	COLORADO
Intl-Cert	International Certification	Sun	3:30 pm-5:00 pm	COLUMBUS A
ITG-6	High-Strength Steel Reinforcement	Mon	2:00 pm-3:00 pm	PARLOR G
ITG-8	ITG-8 Perform Criteria for Conc Matrls	Tue	9:00 am-1:00 pm	MICHIGAN B
ISO/TC 71	ISO/TC 71 Advisory Cmte	Mon	1:00 pm-2:30 pm	MAYFAIR
MEMC	Membership	Sun	8:30 am-11:30 am	MISSOURI
MKTC	Marketing	Mon	2:00 pm-5:00 pm	LINCOLN
NPTF	EAC New Programs Task Force	Tue	1:00 pm-3:00 pm	SUPERIOR A&B
PUBC	Publications	Mon	8:30 am-10:30 am	LINCOLN
RCC	Responsibility	Sun	2:00 pm-5:00 pm	PARLOR C
SCO	Scholarship Council M2	Mon	2:00 pm-3:00 pm	SUITE 1537
SYPAC	Student & Young Professional Activities	Wed	7:00 am-9:00 am	ARKANSAS
S801	Student Activities	Sun	8:00 am-10:00 am	SUPERIOR B
S802	Teaching Methods and Educational Materials	Mon	8:30 am-10:00 am	PARLOR B
S805	Collegiate Concrete Council	Sun	4:00 pm-5:00 pm	ILLINOIS
TAC	Technical Activities M1	Fri	6:30 pm-9:00 pm	COLORADO
TAC	Technical Activities M2	Sat	7:00 am-6:00 pm	COLORADO
TAC	Technical Activities M3	Sun	11:00 am-2:00 pm	PARLOR C

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
TACRG1	TAC Review Group 1	Sun	8:00 am-12:00 pm	PARLOR A
TACRG2	TAC Review Group 2	Sun	8:00 am-12:00 pm	PARLOR B
TACRG3	TAC Review Group 3	Sun	8:00 am-12:00 pm	PARLOR D
TAC-RG4	TAC Review Group 4	Sun	8:00 am-12:00 pm	PARLOR E
TAC-RG5	TAC Review Group 5	Sun	8:00 am-11:00 am	PARLOR C
TRRC	TAC Repair & Rehab	Tue	9:00 am-12:00 pm	SUITE 936
TSC	TAC Specifications	Wed	7:00 am-10:00 am	OHIO
TTTC	TAC Technology Transfer	Tue	7:00 am-8:30 am	MISSOURI
117	Tolerances	Tue	8:30 am-12:00 pm	MAYFAIR
117-TG	Tolerances Task Group	Mon	4:00 pm-6:00 pm	COLORADO
118	Computers	Mon	8:30 am-10:00 am	PARLOR F
120	History	Tue	1:30 pm-3:00 pm	MICHIGAN A
121	Quality Assurance	Sun	3:00 pm-5:00 pm	LINCOLN
122	Thermal Properties	Tue	9:00 am-10:30 am	SUITE 836
123	Research	Sun	4:00 pm-5:00 pm	MICHIGAN A&B
124	Aesthetics	Mon	10:30 am-12:00 pm	LINCOLN BOARDROOM
130	Sustainability M1	Mon	2:00 pm-5:00 pm	CHICAGO 8
130	Sustainability M2	Tue	11:00 am-1:00 pm	CHICAGO 6
130-A	Materials	Mon	8:30 am-10:00 am	HURON
130-B	Production/ Transport/ Construction	Mon	10:00 am-11:00 am	SUITE 929
130-C	Structures in Service	Tue	10:00 am-11:00 am	OHIO
130-D	Rating Systems/ Sustainabilty Tools	Tue	2:00 pm-4:00 pm	CHICAGO 8
130-E	Design/ Specifications/ Codes/Regulations	Mon	11:00 am-1:00 pm	MISSOURI
130-F	Social Issues	Sun	12:30 pm-2:00 pm	PARLOR E
130-G	Education/ Certification	Tue	7:30 am-9:00 am	MISSISSIPPI
131	BIM	Tue	3:00 pm-6:00 pm	PARLOR E
201	Durability	Tue	8:30 am-11:30 am	CHICAGO 10
201-A	Durability-Sulfate Attack	Sun	3:00 pm-5:00 pm	MAYFAIR
201-C	Durability-Condition Report	Tue	1:00 pm-3:00 pm	SUITE 930

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
201-D	Durability-Oversight Committee	Mon	11:30 am-1:00 pm	SUITE 830
201-E	Salt Weathering/ Salt Attack	Mon	4:00 pm-6:00 pm	PARLOR D
207	Mass Concrete	Mon	10:00 am-1:00 pm	ERIE
209	Creep & Shrinkage	Mon	8:30 am-11:30 am	SUITE 1029
209-A	Statistic Procedures	Sun	1:30 pm-3:00 pm	LINCOLN
211	Proportioning	Wed	8:30 am-11:30 am	CHICAGO 9
211-A	Proportioning-Editorial	Tue	10:00 am-12:00 pm	SUITE 830
211-C	Proportioning-No Slump	Tue	8:00 am-10:00 am	SUITE 930
211-E	Proportioning-Evaluation	Tue	11:30 am-1:00 pm	PARLOR E
211-F	Proportioning-Submittal	Tue	2:00 pm-4:00 pm	SUITE 830
211-I	Assessing Aggregate Gradation	Tue	1:00 pm-3:00 pm	PARLOR D
211-N	Proportioning with Ground Limestone and Material Fillers	Tue	3:00 pm-5:00 pm	PARLOR D
211-P	Guide for Selecting Proportions for Pumpable Concrete	Mon	3:30 pm-5:00 pm	PARLOR B
212	Chemical Admixtures	Mon	2:00 pm-6:30 pm	PARLOR F
213	Lightweight	Tue	1:30 pm-3:00 pm	COLUMBUS A&B
213-TG	Lightweight-Editorial TG	Tue	11:30 am-1:00 pm	PARLOR A
214	Strength Tests	Mon	3:30 pm-5:00 pm	OHIO
215	Fatigue	Sun	2:00 pm-4:00 pm	ILLINOIS
216	Fire Resistance	Mon	10:00 am-1:00 pm	OHIO
221	Aggregates	Sun	11:30 am-1:00 pm	MAYFAIR
222	Corrosion	Tue	2:00 pm-5:00 pm	HURON
223	Shrinkage Compensating	Tue	2:00 pm-5:00 pm	MISSISSIPPI
223-C	Shr Compensating-Constr	Tue	1:00 pm-2:00 pm	ARKANSAS
223-D	Shr Compensating-Non Reinforced Concrete or Mortar	Tue	11:30 am-1:00 pm	LINCOLN
224	Cracking	Sun	2:30 pm-5:00 pm	MISSOURI

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
225	Hydraulic Cements	Mon	1:00 pm-4:00 pm	PARLOR D
228	Nondestructive Testing	Sun	10:00 am-1:00 pm	ERIE
228-TG	Nondestructive Testing TG	Mon	1:00 pm-2:30 pm	SUITE 936
229	Controlled Low Strength	Tue	2:00 pm-5:00 pm	PARLOR C
230	Soil Cement	Tue	8:00 am-10:00 am	SUITE 830
231	Early Age	Mon	2:00 pm-3:30 pm	OHIO
232	Fly Ash & Natural Pozzolans	Mon	1:00 pm-4:00 pm	CHICAGO 9
232-A	Fly Ash-Use of Nat Pozzolans	Mon	10:00 am-1:00 pm	PARLOR F
233	Slag Cement	Tue	2:00 pm-6:00 pm	ERIE
234	Silica Fume	Tue	2:00 pm-3:30 pm	OHIO
235	Electronic Data Exchange	Tue	2:00 pm-5:00 pm	PARLOR B
236	Material Science	Mon	4:30 pm-5:30 pm	ONTARIO
236-B	Material Science-Transport Mechanisms	Sun	2:00 pm-3:30 pm	COLUMBUS A
236-D	Material Science Nanotechnology of Concrete M1	Sun	3:30 pm-5:00 pm	HURON
236-D	Material Science Nanotechnology of Concrete M2	Tue	1:00 pm-3:00 pm	PARLOR E
237	Self-Consolidating Concrete	Mon	1:00 pm-4:00 pm	ONTARIO
238	Workability of Fresh Concrete	Tue	8:30 am-10:00 am	SUITE 929
301	Specifications M1	Sat	1:00 pm-5:00 pm	MICHIGAN A&B
301	Specifications M2	Sun	8:30 am-12:00 pm	CHICAGO 9
301	Specifications M3	Mon	1:00 pm-5:00 pm	SUPERIOR B
301-A	Spec-Gen Req, Definitions, & Tolerances	Mon	8:30 am-12:00 pm	PARLOR A
301-B	Spec-Formwork & Reinforcement	Mon	8:30 am-12:00 pm	SUITE 936
301-C	Spec-Placing Consolidating & Curing	Sun	1:00 pm-5:00 pm	SUITE 929
301-D	Spec-Lightweight & Massive Concrete	Sun	1:00 pm-5:00 pm	COLUMBUS B

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
301-E	Spec-Prestressed Concrete	Sun	1:00 pm-3:00 pm	PARLOR A
301-F	Spec-Precast Concrete Panels	Sun	10:00 am-3:00 pm	SUITE 830
301-G	Spec-Shrink Comp Conc & Ind Floor Slabs	Sun	1:00 pm-5:00 pm	PARLOR B
301-H	Spec-Tilt-Up Constr & Arch Conc	Sun	12:30 pm-3:30 pm	HURON
301-SC	Spec-Steering Committee	Sun	7:00 am-8:30 am	COLUMBUS B
302	Floor Construction	Mon	8:30 am-1:00 pm	CHICAGO 8
303	Architectural CIP	Wed	8:30 am-11:30 am	CHICAGO 8
304	Measuring/Mix/ Trans/Placing	Mon	11:30 am-1:00 pm	ARKANSAS
305	Hot Weather	Sun	2:00 pm-4:00 pm	CHICAGO 9
306	Cold Weather	Tue	8:30 am-11:30 am	ARKANSAS
307	Chimneys	Mon	2:00 pm-5:00 pm	SUITE 930
308	Curing	Wed	2:00 pm-5:00 pm	MAYFAIR
308/213	Guide on Internal Curing	Tue	4:30 pm-6:00 pm	OHIO
308-A	Curing-Guide	Wed	10:30 am-1:00 pm	SUITE 929
308-B	Curing-Specifica-tions	Wed	8:00 am-10:30 am	SUITE 929
309	Consolidation	Sun	2:00 pm-5:00 pm	PARLOR F
310	Decorative Concrete	Tue	2:00 pm-5:00 pm	SUITE 929
311	Inspection	Mon	8:30 am-11:30 am	ARKANSAS
313	Bins & Silos	Mon	8:30 am-5:00 pm	ILLINOIS
314	Simplified Design Buildings	Mon	11:30 am-2:00 pm	CHICAGO 10
315	Detailing	Sun	2:00 pm-5:00 pm	CHICAGO 10
315-B	Detailing Constructibility	Sun	8:30 am-11:30 am	HURON
318	Building Code M1	Tue	8:30 am-10:30 am	CHICAGO 6
318	Building Code M2	Wed	2:30 pm-6:30 pm	CHICAGO 8
318-A	General Concrete Constr	Tue	1:00 pm-6:30 pm	ILLINOIS
318-B	Reinforcement & Development M1	Mon	2:00 pm-5:00 pm	SUPERIOR A
318-B	Reinforcement & Development M2	Wed	8:00 am-1:30 pm	HURON

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
318-C	Serviceability/ Safety	Tue	1:00 pm-6:30 pm	MICHIGAN B
318-D	Flexure & Axial Loads	Wed	8:00 am-1:30 pm	COLORADO
318-E	Shear & Torsion	Wed	8:00 am-1:30 pm	MISSOURI
318-ETG 1	Slabs	Mon	10:30 am-11:30 am	SUITE 836
318-G	Prestressed Precast	Wed	8:00 am-1:30 pm	ERIE
318-H	Seismic Provisions	Tue	1:00 pm-6:30 pm	MAYFAIR
318-L	International Liaison	Mon	3:30 pm-5:00 pm	SUITE 836
318-R	Code Reorganization	Tue	1:00 pm-6:30 pm	COLORADO
318-S	Spanish Translation	Mon	2:00 pm-3:30 pm	ERIE
318-TGF	TGF-Foundation	Mon	5:00 pm-6:30 pm	SUITE 836
325	Pavements	Tue	3:30 pm-5:30 pm	MICHIGAN A
325-A	Pavements-Design	Tue	8:00 am-10:30 am	PARLOR D
325-C	Pavements-Prestressed and Precast	Tue	10:30 am-12:00 pm	PARLOR D
325-D	Proportioning for Pavements	Tue	1:00 pm-2:00 pm	SUITE 929
325-E	Accelerated Paving	Tue	2:00 pm-3:30 pm	PARLOR A
327	RCC Pavements	Tue	10:00 am-12:00 pm	SUITE 929
329	Perf. Ready Mixed	Wed	9:00 am-11:00 am	CHICAGO 10
330	Parking Lots & Site Paving	Wed	1:00 pm-4:00 pm	OHIO
330-TG	Parking Lots & Site Paving TG	Wed	8:30 am-11:30 am	MISSISSIPPI
332	Residential Concrete	Tue	2:00 pm-5:00 pm	ARKANSAS
332-B&C	Residential Concrete Materials & Placement	Tue	11:00 am-12:00 pm	OHIO
332-D	Residential Concrete-Footings & Foundation Walls	Tue	9:00 am-10:00 am	ONTARIO
332-E	Residential Concrete-Above Grade Walls	Tue	10:00 am-11:00 am	ONTARIO
332-F	Residential Concrete-Slabs	Tue	1:00 pm-2:00 pm	OHIO
335	Composite Hybrid	Sun	11:30 am-1:00 pm	MISSOURI
336	Footings	Sun	1:00 pm-5:00 pm	ONTARIO

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
341	Earthquake Resistant Bridges	Sun	3:00 pm-5:00 pm	CHICAGO 8
341-A	Equake Res Brdgs-Columns	Sun	11:00 am-12:30 pm	ARKANSAS
341-B	Equake Res Brdgs-Pier Walls	Sun	1:30 pm-3:00 pm	ARKANSAS
341-C	Equake Res Brdgs-Retrofit	Sun	8:00 am-9:30 am	ARKANSAS
341-D	Perf Based Seismic Design	Sun	9:30 am-11:00 am	ARKANSAS
342	Bridge Evaluation	Sun	8:30 am-10:00 am	ERIE
343	Bridge Design	Mon	10:00 am-1:00 pm	COLORADO
343-A	Design	Mon	9:30 am-10:30 am	SUITE 836
343-B	Bridge Deck Design	Mon	8:30 am-9:30 am	SUITE 836
345	Bridge Construction	Sun	1:00 pm-3:00 pm	MAYFAIR
346	CIP Pipe	Mon	11:30 am-1:00 pm	SUITE 836
347	Formwork	Sun	8:30 am-12:30 pm	CHICAGO 10
347-A	Formwork-Specification	Sat	7:00 pm-9:00 pm	MISSOURI
348	Safety	Tue	8:30 am-11:30 am	PARLOR G
349	Nuclear Structures M1	Tue	8:30 am-12:30 pm	SUPERIOR A&B
349	Nuclear Structures M2	Tue	2:00 pm-5:00 pm	CHICAGO 10
349-A&B	Nuclear Structures-Design & Materials	Mon	2:00 pm-5:00 pm	COLUMBUS A&B
349-C	Nuclear Str-Anchorage	Mon	10:00 am-12:30 pm	HURON
350	Environmental Structures	Wed	8:30 am-6:30 pm	SUPERIOR A&B
350-A	Env Str-General & Concrete	Tue	11:30 am-3:30 pm	PARLOR G
350-B	Env Str-Durability	Mon	8:30 am-1:00 pm	PARLOR G
350-C	Env Str-Reinf & Devel	Sun	8:30 am-11:30 am	COLUMBUS B
350-D	Env Str-Structural	Mon	8:30 am-6:30 pm	PARLOR E
350-E	Env Str-Precast/ Prestressed	Sun	1:30 pm-5:00 pm	PARLOR D
350-F	Env Str-Seismic	Tue	8:30 am-3:30 pm	PARLOR F
350-G&K	Env Str-Tightness Testing/Haz Mat	Tue	8:30 am-11:30 am	LINCOLN
350-H	Env Str-Editorial	Mon	1:00 pm-2:30 pm	SUITE 830

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
350-J	Env Str-Education	Mon	3:30 pm-6:30 pm	SUITE 830
350-L	Env Str-Specification	Tue	4:00 pm-6:00 pm	PARLOR G
350-SC	Env Str-Steering Comm	Sun	11:30 am-1:00 pm	ILLINOIS
351	Equip Foundations	Mon	11:00 am-1:00 pm	ONTARIO
351-B	Grtng Fndns-Equip Machnry	Mon	8:15 am-10:00 am	SUITE 929
352	Joints	Sun	2:00 pm-5:00 pm	SUPERIOR B
355	Anchorage	Sun	1:00 pm-5:00 pm	ERIE
355-TG	Anchorage TG	Mon	8:30 am-11:00 am	ONTARIO
357	Offshore & Marine	Tue	8:30 am-10:30 am	ILLINOIS
360	Slabs on Ground	Mon	2:00 pm-6:30 pm	CHICAGO 10
362	Parking Structures	Mon	1:00 pm-5:00 pm	HURON
362-A	Parking Str-Standard	Mon	8:30 am-12:00 pm	PARLOR D
363	High-Strength	Wed	8:30 am-11:30 am	ONTARIO
363-A	High-Strength Lightweight Concrete	Tue	3:30 pm-5:00 pm	PARLOR A
364	Rehabilitation	Mon	2:00 pm-5:00 pm	MISSOURI
365	Service Life	Mon	9:00 am-11:00 am	MISSOURI
369	Seismic Rehab	Mon	2:00 pm-6:00 pm	ARKANSAS
370	Dynamic & Vibratory Effects	Sun	10:30 am-1:00 pm	OHIO
371	Elevated Tanks with Concrete Pedestals	Tue	10:00 am-1:00 pm	SUITE 930
372	Prestressed/Wire Wrapped	Tue	3:00 pm-5:00 pm	SUITE 930
373	Prestressed/ Tendons	Mon	3:00 pm-5:00 pm	PARLOR G
374	Seismic Design	Mon	8:30 am-12:30 pm	MAYFAIR
374-TG2	Protocol For Testing RC Structural Elements	Sun	11:30 am-1:00 pm	COLUMBUS B
375	Design for Wind Loads	Mon	1:00 pm-3:30 pm	SUITE 929
376	RLG Containment Structures M1	Sat	3:00 pm-5:00 pm	ARKANSAS
376	RLG Containment Structures M2	Sun	9:00 am-5:00 pm	COLORADO
376-TG	RLG Containment Structures -TG M1	Mon	9:00 am-5:00 pm	MISSISSIPPI

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
376-TG	RLG Containment Structures -TG M2	Tue	9:00 am-5:00 pm	MISSOURI
376-TG	RLG Containment Structures -TG M3	Wed	9:00 am-5:00 pm	ARKANSAS
408	Development and Splicing	Sun	8:30 am-11:30 am	MAYFAIR
421	Reinf Slabs	Sun	10:00 am-1:00 pm	SUPERIOR B
423	Prestressed	Mon	9:00 am-1:00 pm	SUPERIOR B
423/445	Adhoc Grp on Shear in Prestress Conc	Sun	3:00 pm-5:00 pm	PARLOR G
435	Deflection	Mon	3:30 pm-6:30 pm	PARLOR A
437	Strength Evaluation	Mon	8:30 am-11:30 am	SUPERIOR A
439	Steel Reinforcement	Mon	8:30 am-10:00 am	PARLOR C
439-A	Steel Reinf-Wire	Sun	3:30 pm-5:00 pm	OHIO
440	Fiber Reinforced Polymer	Tue	8:30 am-11:30 am	CHICAGO 8
440-D	FRP-Research	Sun	1:30 pm-3:00 pm	MISSISSIPPI
440-F	FRP-Repair Stregthening	Mon	3:00 pm-6:00 pm	MICHIGAN A&B
440-G	FRP-Student	Mon	8:30 am-10:00 am	OHIO
440-H	FRP-Reinforced Concrete	Sun	8:30 am-11:30 am	SUPERIOR A
440-J	FRP-Stay in Place Forms	Mon	1:30 pm-3:00 pm	MICHIGAN A&B
440-K	FRP-Material Characteristics	Mon	10:00 am-11:30 am	PARLOR C
440-L	FRP-Durability	Sun	3:00 pm-5:00 pm	MISSISSIPPI
441	Columns	Mon	11:30 am-2:00 pm	SUPERIOR A
441-E	Columns Multi-Spiral Reinf	Sun	3:00 pm-4:30 pm	PARLOR A
444	Experimental Analysis	Tue	8:00 am-10:00 am	PARLOR E
445	Shear & Torsion	Mon	2:00 pm-6:00 pm	PARLOR C
445-A	Shear & Torsn-Strut & Tie	Sun	10:30 am-1:30 pm	MISSISSIPPI
445-B	Shear & Torsn-Seismic Shear	Sun	8:00 am-11:00 am	PARLOR G
445-C	Shear & Torsn-Punching Shear	Sun	1:00 pm-3:00 pm	PARLOR G
445-D	Shear & Torsn-Database	Mon	10:00 am-12:00 pm	PARLOR B

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
445-E	Shear & Torsn-SOA Torsion	Sun	12:30 pm-2:00 pm	PARLOR F
446	Fracture Mechanics	Mon	3:30 pm-5:00 pm	SUITE 929
447	Finite Element Analysis	Mon	11:30 am-2:00 pm	SUITE 1029
506	Shotcreting	Tue	8:30 am-11:30 am	ERIE
506-A	Shotcreting-Evaluation	Sun	8:00 am-10:00 am	PARLOR F
506-B	Shotcreting-Fiber Reinforced	Sun	2:00 pm-3:00 pm	CHICAGO 8
506-C	Shotcreting-Guide	Mon	8:30 am-10:30 am	SUITE 930
506-E	Shotcreting-Specifications	Mon	10:30 am-12:30 pm	SUITE 930
506-F	Shotcreting-Underground	Mon	3:00 pm-4:00 pm	SUITE 936
506-G	Qualifications for Projects	Sun	11:00 am-1:00 pm	ONTARIO
515	Protective Systems	Tue	11:30 am-1:00 pm	ERIE
522	Pervious Concrete	Tue	8:30 am-11:30 am	CHICAGO 9
523	Cellular Concrete	Tue	10:00 am-1:00 pm	PARLOR C
523-A	Cellular-Autoclaved Aerated	Tue	8:30 am-10:00 am	PARLOR C
524	Plastering	Mon	8:30 am-10:00 am	ERIE
533	Precast Panels	Mon	2:30 pm-4:00 pm	MAYFAIR
543	Piles	Mon	8:30 am-11:30 am	SUITE 830
544	Fiber-Reinforced Concrete	Tue	3:30 pm-6:00 pm	SUPERIOR A&B
544-A	FRC-Production & Applications	Mon	11:30 am-1:00 pm	MICHIGAN A&B
544-B	FRC-Education	Mon	8:30 am-10:00 am	COLORADO
544-C	FRC-Testing	Tue	2:00 pm-3:30 pm	CHICAGO 6
544-D	FRC-Structural Uses	Mon	3:30 pm-6:00 pm	ERIE
544-E	FRC-Mechanical Properties	Mon	2:00 pm-3:30 pm	PARLOR B
544-F	FRC-Durability	Tue	10:30 am-12:00 pm	HURON
546	Repair	Mon	8:30 am-11:30 am	CHICAGO 9
546-B	Repair-Material Selection Guide	Sun	8:30 am-10:30 am	SUITE 929
546-C	Repair-Guide	Sun	10:30 am-11:30 am	SUITE 929
548	Polymers	Tue	8:30 am-10:30 am	HURON
548-A	Polymers-Overlays	Mon	8:30 am-11:00 am	COLUMBUS A

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
548-B	Adhesives in Concrete	Mon	11:00 am-1:00 pm	COLUMBUS A
548-C	Structural Polymer Design	Sun	11:30 am-1:00 pm	SUITE 929
548-TG	Polymers-TG	Sun	2:00 pm-3:00 pm	PARLOR E
549	Thin Reinforced	Sun	9:30 am-2:00 pm	CHICAGO 8
549-A	Thin Reinforced-Glass Fiber Reinforced Concrete	Sun	8:30 am-10:30 am	MISSISSIPPI
550	Precast Structures	Sun	3:00 pm-5:00 pm	ARKANSAS
551	Tilt-up	Sun	9:00 am-11:00 am	ONTARIO
552	Cementitious Grouting	Tue	11:30 am-2:00 pm	MISSISSIPPI
555	Recycled	Mon	5:00 pm-6:30 pm	SUPERIOR B
560	Design & Constr ICFs	Wed	8:30 am-11:30 am	MAYFAIR
562	Eval, Repair & Rehab	Sun	11:30 am-5:00 pm	SUPERIOR A
562-A	Eval, Repair & Rehab-Life Safety	Sat	5:00 pm-9:00 pm	ARKANSAS
562-B	Eval, Repair & Rehab-Loads	Sun	8:00 am-9:00 am	COLORADO
562-C	Eval, Repair & Rehab-Structural Analysis	Sat	5:00 pm-9:00 pm	SUPERIOR A
562-Co	Eval, Repair & Rehab-Coordination Meeting	Sun	8:00 am-9:00 am	ONTARIO
562-D	Eval, Repair & Rehab-Structural Repair Design	Sat	1:00 pm-3:00 pm	ARKANSAS
562-E	Eval, Repair & Rehab-Durability Qlty Assurance	Sat	5:00 pm-9:00 pm	OHIO
562-F	Eval, Repair & Rehab-General	Sat	1:00 pm-5:00 pm	OHIO
563	Specs for Repair of Struct Conc in Bldgs	Tue	2:00 pm-5:00 pm	SUITE 1029
563-C	Excavation/Surface Preparation	Tue	7:00 am-9:00 am	SUITE 936
563-FG	Mixtures/Placing/Curing	Tue	7:00 am-9:00 am	SUITE 1029
563-H	Architectural/Precast Concrete	Tue	9:00 am-11:00 am	SUITE 1029

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
563-I	Proprietary Grouts/ Concrete	Tue	7:00 am-9:00 am	PARLOR A
563-JK	Crack Repair/ External Reinforcement	Tue	9:00 am-11:00 am	PARLOR A
563-L	Prestressed Concrete	Tue	7:00 am-9:00 am	MICHIGAN B
563-MN	Polymer Concrete Overlays/ Protection Systems	Tue	7:00 am-9:00 am	COLUMBUS A&B
563-P	Corrosion	Tue	9:00 am-11:00 am	COLUMBUS A&B

NOTABLE CONCRETE .in CHICAGO and Vicinity

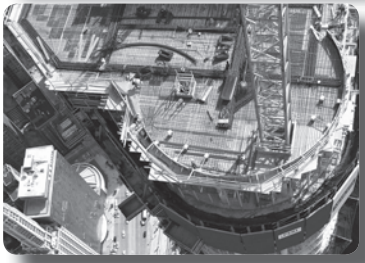
Compiled by ACI Committee 124, Aesthetics

Chicago 2010 Convention
aci
XTREME CONCRETE

Co-sponsored by:

AIAChicago

Download a copy of notable concrete projects at www.aciconvention.org



Sunday, March 21, 2010
8:00 am-9:00 am

Convention #1 Breakfast **CHICAGO 8**
Sponsored by the ACI Convention Committee

Session Moderator: Kari Yuers
President & CEO
Kryton International, Inc.
Vancouver, BC, Canada

First-time convention attendees are invited to join Kari Yuers, Chair of the ACI Convention Committee, for a continental breakfast and a brief session on convention activities. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI convention has to offer. Be sure to also attend the following events throughout the week.

Monday, March 22 & Tuesday, March 23
8:00 am-8:30 am
Coffee at the Meeting Spot **River Exhibit Hall**
Join other first-time attendees and convention veterans for morning coffee to discuss the days' events and network.

1:00 pm-2:00 pm:
Mentors and Guides Available at the Meeting Spot **River Exhibit Hall**
Grab a bite to eat from the concession stand in the exhibit area and meet convention veterans and other first-time attendees.

Tuesday, March 23
6:00 pm
Pre-Mixer Gathering **Chi Bar**
Meet for a pre-mixer beverage with convention mentors and other attendees. Beverages will be available for purchase.

Sunday, March 21, 2010

11:00 am-5:00 pm

Student Pervious Concrete and FRC Bowling Ball Competitions **RIVER EXHIBIT HALL**

Pervious Concrete Competition—sponsored by ACI Committee S801, Student Activities, the ACI Illinois Chapter, the Center for Maximum Potential Building Systems (CMPBS), and the U.S. Green Building Council® (USGBC®)

FRC Bowling Ball Competition—sponsored by ACI Committees 544, Fiber Reinforced Concrete, S801, Student Activities, and the ACI Illinois Chapter

Thank you to Humboldt and Forney for donating the compression machines to be used in these competitions. Also, special thanks to Flood Testing Laboratories for transportation of the Humboldt machine.

Session Moderator: Lawrence H. Taber
Structural Engineer
Black & Veatch
Kansas City, MO

ACI's nationally recognized student competitions offer students the opportunity to participate in interesting and educational concrete projects. This spring, students will compete in two competitions: the FRC Bowling Ball Competition and, for the very first time, the Pervious Concrete Competition. During the FRC Bowling Ball Competition, students will design and construct a fiber-reinforced concrete bowling ball that will achieve optimal performance under specified failure criteria and develop a fabrication process that produces a radial uniform density while maximizing volume. For the Pervious Concrete Competition, students will compete to create a pervious concrete specimen that maximizes permeability while maintaining a good splitting tensile strength. Come cheer on your favorite team during these spirited competitions.

Sunday, March 21, 2010
2:00 pm-5:00 pm

Durability and Long-Term Performance of SCC **SHERATON 2**
Sponsored by ACI Committees 237, Self-Consolidating Concrete, and 201, Durability

Session Moderator: Mohammed Sonebi
Senior Lecturer (Associate Professor)
Queen's University-Belfast
Belfast, United Kingdom

Self-consolidating concrete is an important and significant advance within concrete technology that is having a major impact on concrete practice. This technical session will focus on the long-term performance of SCC.

Influence of Supplementary Cementing Materials and Fillers on the Transport Properties of SCC **2:00 pm**
Mohammed Sonebi, Senior Lecturer (Associate Professor), Queen's University-Belfast, Belfast, United Kingdom

Frost Durability of Self-Consolidating Concrete Used in Repair Applications **2:30 pm**
Kamal H. Khayat, Professor, University of Sherbrooke, Sherbrooke, QC, Canada

Sulfate Resistance of Self-Consolidating Concrete **3:00 pm**
Mohamed Tamer Farouk Bassuoni, Lecturer (Assistant Professor), Queen's University-Belfast, Belfast, United Kingdom

Durability of SCC: General Results Based on Hydration Studies and Microstructural Investigations **3:30 pm**
Geert De Schutter, Professor, Magnel Laboratory for Concrete Research, Ghent University, Ghent, Belgium

High-Temperature Resistance of Self-Consolidating Concrete **4:00 pm**
Patrick Bamonte, Assistant Professor, Milan University of Technology, Milan, Italy; and **Pietro Gambarova**, Milan University of Technology

Durability Characteristics of SCC Incorporating Metakaolin **4:30 pm**
Mohamed Lachemi, Professor, Ryerson University, Toronto, ON, Canada

Sunday, March 21, 2010
2:00 pm-5:00 pm

Durability for Concrete of Pavements **SHERATON 1**
Sponsored by ACI Committee 325, Pavements

Session Moderator: Peter C. Taylor
Associate Director
National Concrete Pavement Technology Center
Ames, IA

This session focuses on how concrete materials and their proportioning and placing can affect the potential durability of pavements. The session presented by invited experts in their fields will include discussion about testing methods and specifications.

Cementitious Binders for Durable Concrete Pavements **2:00 pm**
Thomas J. Van Dam, Program Director, Applied Pavements Technology, Inc., Hancock, MI

Role of Aggregates in Durable Concrete **2:25 pm**
James D. Powell, Technical Director, Vulcan Materials Co., Birmingham, AL

Mix Design and Proportioning for Durability **2:50 pm**
Peter C. Taylor, Associate Director, National Concrete Pavement Technology Center, Ames, IA

The Effects of Construction Practices on Concrete Pavement Longevity **3:15 pm**
Michael E. Ayers, Director of Education for Design and Construction, American Concrete Pavement Association, Skokie, IL

Testing Concrete Durability **3:40 pm**
Tommy E. Nantung, Sections Manager, Indiana Department of Transportation, West Lafayette, IN

Concrete Pavement Durability: The Final Step—Maintaining the Durability **4:05 pm**
Shiraz D. Tayabji, Regional Manager, Fugro Consultants Inc., Ellicott City, MD

Sunday, March 21, 2010
2:00 pm-5:00 pm

Incorporating the ASCE Body of Knowledge **SHERATON 5**
Sponsored by ACI Committee S802, Teaching Methods and Educational Materials

Session Co-Moderators: Fred Meyer
Associate Professor and Director of Civil Engineering
United States Military Academy
West Point, NY

Shashi S. Marikunte
Assistant Professor
Pennsylvania State University
Middletown, PA

The ASCE Body of Knowledge will become a requirement for civil engineering departments to be accredited by the Accreditation Board for Engineering and Technology and for civil engineers to be licensed. This session provides an overview of the topics that ASCE expects junior engineers to learn on the job before licensure. It will also cover several examples of how to cover non-traditional topics in concrete courses.

Presentation from the Walter P. Moore Award Winner **2:00 pm**
Mahmoud M. Reda Taha, Associate Professor, University of New Mexico, Albuquerque, NM

Addressing the Project Management Outcome in a Design Course **2:45 pm**
James H. Hanson, Assistant Professor, Rose-Hulman Institute of Technology, Terre Haute, IN

Incorporation of the ASCE Body of Knowledge (BOK) Based on Global Experiences **3:07 pm**
Fred Meyer, Associate Professor and Director of Civil Engineering, United States Military Academy, West Point, NY; and **Steve Hart**, United States Military Academy

Teaching Sustainability to Engineers **3:29 pm**
Daniel R. Lynch, MacLean Professor of Engineering, Dartmouth, Hanover, NH

Sunday, March 21, 2010
2:00 pm-5:00 pm

Incorporating the ASCE Body of Knowledge (cont.) **SHERATON 5**

Tracking Student Performance Using Bloom's Taxonomy **3:51 pm**
Keith Thompson, Assistant Professor, University of Wisconsin, Platteville, Platteville, WI

Incorporating Teamwork and Communication in an Undergraduate Concrete Course **4:13 pm**
Laurel M. Dovich, Professor, Walla Walla University, Spokane, WA

Incorporating the ASCE Body of Knowledge into a Multi-Disciplinary Design Project **4:35 pm**
Charles W. Dolan, Professor, University of Wyoming, Laramie, WY

Sunday, March 21, 2010
2:00 pm-5:00 pm

Innovations in Fire Design of Concrete Structures SHERATON 4
Sponsored by ACI Committee 216, Fire Resistance

Session Moderator: Venkatesh Kumar Kodur
Professor
Michigan State University
East Lansing, MI

The provision of appropriate fire safety measures to structural members is a major safety requirement in building design since fire represents a significant hazard in built infrastructure. Recent research and development efforts have focused on developing rational design approaches, innovative mixture designs, constitutive models for high temperature material properties, and advanced computational techniques for enhancing fire resistance of concrete structures. In this session, findings from the recent development activities on the fire performance of concrete (reinforced and prestressed) and masonry systems will be presented through eight presentations. This session is expected to benefit practicing engineers and lead to wider use of innovative design approaches and materials in building applications.

Introduction to ACI Committee 216 and Current Committee Activities **2:00 pm**
Venkatesh Kumar Kodur, Professor, Michigan State University, East Lansing, MI

Bond Strength Degradation for Prestressed Steel and Carbon FRP Bars in Ultra High-Performance Concrete at Elevated Temperatures **2:05 pm**
Luke A. Bisby, Reader, University of Edinburgh, Edinburgh, Scotland; **Cristian Hernán Maluk Zedan**, Potificia Universidad Catolica de Santiago; and **Giovanni Terrasi**, EMPA – The Swiss Federal Laboratories for Materials Testing and Research

Stress Block Parameters for Reinforced Concrete Beams Exposed to Elevated Temperatures **2:25 pm**
Maged A. Youssef, Associate Professor, The University of Western Ontario, London, ON, Canada; and **S.F. El-Fitiany**, The University of Western Ontario

Sunday, March 21, 2010
2:00 pm-5:00 pm

Innovations in Fire Design of Concrete Structures (cont.) **SHERATON 4**

An Analytical Method for Assessing the Strength of Concrete Structural Elements During and After Fire **2:45 pm**
Martin Gillie, Lecturer, University of Edinburgh, Edinburgh, Scotland; and **Angus Law**, University of Edinburgh

A Macroscopic Finite Element Computer Model for Tracing Fire Response of Reinforced Concrete Columns **3:05 pm**
Nikhil Raut, PhD Candidate, Michigan State University, East Lansing, MI; and **Venkatesh Kumar Kodur**, Michigan State University

Reinforced Concrete Bearing Walls Under Elevated Temperatures **3:25 pm**
Yahya C. Kurama, Associate Professor and Director of Graduate Studies, University of Notre Dame, Notre Dame, IN; and **Kevin Mueller**, University of Notre Dame

Effect of Temperature on Tensile Strength of High-Strength Concrete **3:45 pm**
Venkatesh Kumar Kodur, Professor, Michigan State University, East Lansing, MI; and **Wasim Khaliq**, Michigan State University

Review of High Temperature Properties of High-Strength Concrete **4:05 pm**
Long T. Phan, Research Structural Engineer, National Institute of Standards and Technology, Gaithersburg, MD

Experience with Full-Scale Tests for Concrete Tunnel Constructions **4:25 pm**
Frank Dehn, Executive Director, Leipzig Institute for Materials Research and Testing, Leipzig, Germany

Sunday, March 21, 2010
2:00 pm-5:00 pm

Ultra High-Performance Concrete for Bridges **SHERATON 3**
Sponsored by ACI Committee 343, Bridge Design

Session Moderator: Shrinivas B. Bhide
Director of Engineering
Bentley Systems, Inc.
Sunrise, FL

Ultra high-performance concrete (UHPC) offers exceptional strength and durability properties. The result is efficient, long-lasting, and economic structures. This session will present material properties, design philosophies, current research, and case studies of UHPC bridges from around the world.

Innovative Application of Ultra High-Performance Concrete with Fiber-Reinforced Polymer Tubes in Columns **2:00 pm**
Amir Mirmiran, Professor and Chair, Florida International University, Miami, FL; and **Pedram Zohrevand**, Florida International University

Innovative Field-Cast UHPC Joints for Precast Bridge Deck Panels **2:20 pm**
Vic Perry, Professional Engineer, Lafarge North America Inc., Calgary, AB, Canada; and **Matthew Royce**, New York State Department of Transportation

Interface Shear Performance of Precast Prestressed Ultra High-Performance Bridge Girder with Cast-in-Place Concrete Deck **2:40 pm**
Lawrence F. Kahn, Professor, Georgia Institute of Technology, Atlanta, GA; and **Charles Crane,** Georgia Institute of Technology

Ultra High-Performance Concrete Structural Components **3:00 pm**
Benjamin Graybeal, Research Structural Engineer, Federal Highway Administration, Maclean, VA

Marine Performance and Chloride Resistance of UHPC **3:20 pm**
Michael Thomas, Professor, University of New Brunswick, Frederickton, NB, Canada; and **Vic Perry,** Lafarge North America Inc.

Optimization of Highway Bridge Girders for Use with Ultra High-Perfomance Concrete **3:40 pm**
Carin L. Roberts-Wollmann, Professor, Virginia Polytechnic Institute, Blacksburg, VA; **Michael Woodworth**, **Thomas Cousins**, and **Elisa Sotelino**, Virginia Polytechnic Institute

Sunday, March 21, 2010
2:00 pm-5:00 pm

Ultra High-Performance Concrete for Bridges (cont.) **SHERATON 3**

Ultra High-Performance Fiber-Reinforced Concrete in Footbridges **4:00 pm**
Gamal Ghoneim, Senior Structural Engineer, Cohos Evamy Partners, Calgary, AB, Canada; **Gerald Carson**, Cohos Evamy Partners; and **Vic Perry**, Lafarge North America Inc.

Ultra High-Performance Concrete Research at Virginia Tech 4:20 pm
Cristopher D. Moen, Assistant Professor, Virginia Polytechnic Institute, Blacksburg, VA; **Vathana Poev**, **Kacie D'Alessandro**, **Carin Roberts-Wollmann**, **Thomas Cousins**, and **Elisa Sotelino**, Virginia Polytechnic Institute

Ultra High-Performance Concrete for Bridge Double T Girders 4:40 pm
George Morcous, Assistant Professor, University of Nebraska-Lincoln, Omaha, NE

Sunday, March 21, 2010
5:15 pm-6:30 pm

Opening Session & Awards Program **CHICAGO 6&7**

The ACI Spring 2010 Convention officially begins during the Opening Session. Here, ACI will recognize different individuals and groups for their contributions to ACI and achievements in the concrete industry. Congratulations to the following awardees!

HONORARY MEMBERSHIP

Daniel L. Baker
Angel Herrera
Brad D. Inman
H. S. Lew
Surendra P. Shah

50 YEAR MEMBERS

Charles Ang
Edward Aziz
John Brunalli
Emery Farkas
D. Gene Daniel
Kenneth D. Hansen
John M. Hanson
Kal Hindo
D. Kennedy
L. Robert Kimball
Eleusipo Labrada*
Joseph F. Lamond
Murray Low
Ronald B. McPherson
Bernard L. Meyers
Donald E. Milks
Warren Minner
Isam (Sam) Munir
Dan Ravina
Dennis E. Roby
Henry Rouillard
Stuart Thompson
James Warner
J. Craig Williams
Leonard Woodruff
Asim Yeginobali

FELLOW

James Aldred
Robert W. Barnes
Oguzhan Bayrak
Evan C. Bentz
Young Soo Chung
Cesar A. Constantino
Juan Pablo Covarrubias
Russell L. Hill
Marc Jolin
Jose Daniel Damazo-Juarez
Kimberly E. Kurtis
Laura N. Lowes
Paul F. Mlakar
John W. Nehasil
Lawrence C. Novak
Gianfranco Ottazzi
Long T. Phan
Jose I. Restrepo
David M. Rogowsky
Harry C. Roof
David A. Rothstein
Larbi M. Sennour
John F. Silva
Sri Sritharan
Michael C. Stenko
Kolluru V. Subramaniam
Thomas J. Van Dam
Arthur T. Weiss, Jr.
W. Jason Weiss
Yan Xiao
Kari Yuers

*deceased

Sunday, March 21, 2010
5:15 pm-6:30 pm

ACI AWARDEES (cont.)

PERSONAL AWARDS

ARTHUR R. ANDERSON MEDAL
Ward R. Malisch

ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD
Bruce A. Suprenant

JOE W. KELLY AWARD
Ken Bondy

HENRY L. KENNEDY AWARD
Jon B. Ardahl

ALFRED E. LINDAU AWARD
Ron Klemencic

HENRY C. TURNER MEDAL
Concrete Reinforcing Steel Institute

CHARLES S. WHITNEY MEDAL
Baker Concrete Construction, Inc.

DISTINGUISHED ACHIEVEMENT AWARD
Illinois Ready Mixed Concrete Association

PAPER AWARDS

WASON MEDAL FOR MOST MERITORIOUS PAPER
Gary J. Klein

WASON MEDAL FOR MATERIALS RESEARCH
Michael D. A. Thomas, Allan Scott, Theodore W. Bremner, Alain Bilodeau, and Donna C. Day

ACI CONSTRUCTION AWARD
Victor H. Villarreal

CHESTER PAUL SIESS AWARD FOR EXCELLENCE IN STRUCTURAL RESEARCH
Aurelio Muttoni

ACI DESIGN AWARD
Hartwig N. Schneider and Ingo Bergmann

CHAPTER ACTIVITIES AWARD (DOMESTIC)
J. Mitchell Englestead
Mike Murray

CHAPTER ACTIVITIES AWARD (INTERNATIONAL)
Mohammed H. Al-Nagadi
Mario A. Chiorino

ACI YOUNG MEMBER AWARD FOR PROFESSIONAL ACHIEVEMENT
Maria Juenger
Nakin Suksawang
Jennifer Tanner

Sunday, March 21, 2010
5:15 pm-6:30 pm

ACI AWARDEES (cont.)

DELMAR L. BLOEM DISTINGUISHED SERVICE AWARD
V. Tim Cost
Russell L. Hill
Michael S. Stenko

ACI CERTIFICATION AWARD
Vartan Babakhanian
David Darwin
Mario R. Diaz

ACI FOUNDATION—CONCRETE RESEARCH COUNCIL BOASE AWARD
Sami Hanna Rizkalla

ACI FOUNDATION—CONCRETE RESEARCH COUNCIL PHILLEO AWARD
H. Celik Ozyildirim

WALTER P. MOORE, JR. FACULTY ACHIEVEMENT AWARD
Mahmoud Reda Taha

2009 EXCELLENT CHAPTERS
Arizona
Georgia
Illinois
India
Iran
Kansas
Louisiana
Missouri
New Jersey
New Mexico
Northeast Texas
Peru
Pittsburgh
San Antonio

2009 OUTSTANDING CHAPTERS
Carolinas
Central and Southern Mexico
Eastern Pennsylvania and Delaware
Ethiopia
Florida Suncoast
Indiana
Intermountain
Las Vegas
Nebraska
Northeast Mexico
Ontario
San Diego International
Southern California

Sunday, March 21, 2010
6:30 pm-7:30 pm

Opening Reception **RIVER EXHIBIT HALL**
Sponsored by the ACI Illinois Chapter

After the Opening Session, make your way to the exhibit hall to enjoy a beverage from a cash bar and light refreshments. What a great place to catch up with friends, network with concrete professionals, talk with exhibitors, and meet new convention attendees! This is a networking opportunity you won't want to miss!

Following the Opening Reception, experience one of Chicago's fine restaurants. Visit the ACI Illinois Chapter Desk for suggestions.

Sunday, March 21, 2010
7:30 pm-10:00 pm

123 Forum: Fly Ash Contributes to Sustainable Concrete Construction – Is It Justified to Reclassify the Material as a Hazardous Waste? **SHERATON 3**

Sponsored by ACI Committee 123, Research and Current Developments

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

Following its long tradition, ACI Committee 123 brings industry experts together to debate on another subject and to share their views with ACI patrons. The debate this time is whether it is justified to reclassify fly ash as a hazardous waste. Based on more than one-half century of research and application, today fly ash is the most commonly used supplementary cementitious material. We can produce good quality durable concrete by replacing as much as 50% of portland cement with fly ash. Since the production of portland cement is associated with greenhouse gas emissions, minimizing the use of portland cement and maximizing the use of supplementary cementitious materials is a substantial contribution to sustainable development, and fly ash does just that. Also, when fly ash is used in concrete, most harmful metals in the material are safely immobilized by the hydration reactions of cement, which could otherwise be hazardous if not disposed of properly.

If fly ash is reclassified as a hazardous waste, the big question is what implications it would have on the advances the concrete industry has made towards a sustainable concrete construction. Would fly ash still be included in concrete standards and specifications due to fear of liability and litigation? What alternatives would the concrete industry have in reducing CO_2 emissions associated with the production of portland cement? What alternatives would the concrete industry have in reducing the heat of hydration and consequently cracking and reduced service life of mass concrete structures such as dams? What alternatives would the concrete industry have in producing low permeability watertight structures with long service life? How would this reclassification impact major on-going construction projects designed and specified with fly ash? Could this reclassification jeopardize construction projects currently being performed under American Recovery and Reinvestment Act (ARRA)? What impact would reclassification have on the economic growth of the nation?

Sunday, March 21, 2010
7:30 pm-10:00 pm

123 Forum: Fly Ash Contributes to Sustainable Concrete Construction—Is It Justified to Reclassify the Material as a Hazardous Waste? (cont.) **SHERATON 3**

Our panelists in Chicago will address these and many other questions, and after discussing the subject with them you should be able to make an assessment whether reclassification of fly ash as a hazardous waste is a step forward or a step backward.

Introduction **7:30 pm**
Mohammad S. Khan, Senior Vice President, Professional Service Industries, Inc., Herndon, VA

Reclassification Impacts—A Global Perspective **7:35 pm**
Anne Ellis, Vice President of Government Affairs, AECOM, Alexandria, VA

Liability, Litigation, and Stigma—3 Barriers to Progress **7:45 pm**
Thomas H. Adams, Executive Director, American Coal Ash Association, Aurora, CO

The Potential Consequences of Reclassifying Fly Ash as a Hazardous Waste in Florida **7:55 pm**
Christopher Ferraro, Structural Materials Research Engineer, Florida Department of Transportation, Gainesville, FL

The Beneficial Use of Fly Ash in Pavements: The Concrete Pavement Industry's Perspective **8:05 pm**
Leif Wathne, Vice President of Highways and Federal Affairs, American Concrete Pavement Association, Washington, DC

Questions, Answers, and Discussion **8:15 pm**

Sunday, March 21, 2010
9:00 pm-10:30 pm

Student and Young Professional Networking Event **CHI BAR**
Sponsored by the ACI Collegiate Concrete Council and Student and Young Professional Activities Committee

The ACI Collegiate Concrete Council and Student and Young Professional Activities Committee for Young Professionals invite all convention attendees to the Student and Young Professional Networking Event. Meet fellow students and young professionals while networking with ACI members in a fun and casual environment. Attendees to the event will be entered into a drawing for door prizes. In addition, the bar will be open for attendees desiring to purchase beverages and/or appetizers.

Monday, March 22, 2010
6:30 am-8:15 am

Workshop for Technical Committee Chairs **CHICAGO 6&7**
Sponsored by the ACI Technical Activities Committee

Session Moderator: David H. Sanders
Professor
University of Nevada, Reno
Reno, NV

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

Monday, March 22, 2010
7:00 am-8:30 am

Speaker Skills Training Breakfast: Teaching Methods and Educational Materials **CHICAGO 9**

Sponsored by ACI Committee S802, Teaching Methods and Educational Materials

Session Moderator: James H. Hanson
Assistant Professor
Rose-Hulman Institute of Technology
Terre Haute, IN

Speaker: Chris Carroll
Assistant Professor
University of Louisiana at Lafayette
Lafayette, LA

Topic: The Use of a Tablet PC for a Presentation

This presentation will focus on the use of Tablet PC's for presentations. Tablet PC's are becoming more popular in academia amongst faculty and students, with some schools requiring students to purchase a Tablet PC prior to enrollment in an engineering program. While this push seems to be towards creating a more automated workforce, the most useful application of Tablet PC's can be seen in classroom instruction. Tablet PC's may be the most useful tool when creating active learning environments. By using a Tablet PC during lectures, faculty can use skeleton file formats which allow students the opportunity to focus more attention on important items and spend less time on sketches and drawings that so often distract students from key points during a lecture. If this concept works in a classroom setting, why should it be limited to classroom settings?

Many engineers present projects and give professional seminars on a regular basis as part of their careers. On too many occasions, PowerPoint presentations are given with information overload. In these situations, viewers leave the presentation overwhelmed and unable to pinpoint the presenter's main objective. By using techniques similar to those used with Tablet PC's in active learning style teaching environments, presenters can also keep the focus of the viewers and emphasize key points in their presentations. This presentation will give examples of both applications; a typical lecture and a professional seminar.

Monday, March 22, 2010
7:30 am-8:30 am

Chapter Forum **ERIE**
Sponsored by the Chapter Activities Committee

What is required of chapters in regards to filing the IRS 990 form? Is your chapter incorporated correctly? Donna Halstead, ACI's Managing Director of Finance and Administration will address these common questions.

Monday, March 22, 2010
9:00 am-12:00 pm

Extreme Tilt-Up Performance: Design to Construction, Part 1 **SHERATON 2**
Sponsored by ACI Committee 551, Tilt-Up Concrete Construction

Session Moderator: James R. Baty
Technical Director
Concrete Foundation Association
Mount Vernon, IA

Tilt-up concrete is both a frontier and a staple in the building industry. Although largely considered an industrial building system, today's market exhibits design and construction accomplishments that are achieved through effective collaboration of architects, engineers, and contractors. Attendees of this session will uncover the historical significance of tilt-up design and construction, and develop a solid foundation of the capabilities and technologies that enable the present and future to be dominated by this building method for low- to mid-rise construction.

Historical Significance of Slender Wall Test **9:00 am**
James S. Lai, Retired Structural Engineer, La Cañada Flintridge, CA

Code Changes That Effect Tilt-Up Concrete Design **9:30 am**
John W. Lawson, Assistant Professor, California Polytechnic State University, San Luis Obispo, CA

The Role of Steel **10:00 am**
Anthony I. Johnson, Production Application Engineering, Concrete Reinforcing Steel Institute, Rochester Hills, MI

Seismic Performance of Concrete Tilt-Up Walls **10:30 am**
Perry Adebar, Associate Professor, University of British Columbia, Vancouver, BC, Canada; **Kenneth J. Elwood,** University of British Columbia

Hybrid System Design & Construction **11:00 am**
Jeff Griffin, Senior Project Manager, LJB Inc., Dayton, OH

Monday, March 22, 2010
9:00 am-12:00 pm

Recent Advances in Maintenance and Repair of Concrete Bridges **SHERATON 5**

Sponsored by ACI Committee 345, Concrete Bridge Construction, Maintenance and Repair

Session Moderator: Yail Jimmy Kim
Assistant Professor
North Dakota State University
Fargo, ND

This special session will focus on current technology for concrete bridge repair and maintenance. The presentations and technical papers will include case studies of damages and corresponding repair due to extreme events, state-of-the-art repair technologies, evaluation and inspection techniques, and maintenance of existing concrete bridges.

The Effect of Snapping the Prestress Wires for Box Beams Subjected to Combined Load **9:00 am**

Mokhtar M. Aburawi, Professor, Al Marghab University, Alkhoms, Libya; and **Ali Mohamed**, Engineering Academy in Tajura

Seismic Rehabilitation of RC Bridges by Using FRP and SRP: Case Study of a Bridge in the South of Italy **9:20 am**

Marco Di Ludovico, Assistant Professor, University of Naples, Naples, Italy; **Roberto Cuzzilla, Andrea Prota**, and **Gaetano Manfredi**, University of Naples

Bridge Inspection and Repair in Cold Regions **9:40 am**

Amer Hmidan, PhD Student, North Dakota State University, Fargo, ND; and **Jimmy Kim**, North Dakota State University

Use of Non-Destructive Evaluation Techniques to Localize Occurring Damage in RC Structure Exposed to a Marine Environment **10:00 am**

Antonio Nanni, Professor and Chair, University of Miami, Coral Gables, FL; **Rossella M. Ferraro**, **Alexander Suma, Fabio Matta, and Brian Metrovich,** University of Miami

Evaluation of Fire-Damaged Bridges **10:20 am**

Scott T. Wyatt, Senior Bridge Engineer, CTLGroup, Skokie, IL

Monday, March 22, 2010
9:00 am-12:00 pm

Recent Advances in Maintenance and Repair of Concrete Bridges (cont.) **SHERATON 5**

Technical Demands for Preventive Bridge Maintenance **10:40 am**
Johan L. Silfwerbrand, Professor, Royal Institute of Technology, Stockholm, Sweden

FRP Retrofit for a Historic Arch Bridge in Southern Ontario **11:00 am**
Khaled A. Soudki, Canada Research Chair, University of Waterloo, Waterloo, ON, Canada; **Scott Davis**, AECOM; and **Christine Beard Laaber**, Town of South Bruce Peninsula

Texas' Use of CFRP to Repair Concrete Bridges **11:20 am**
Brian Merrill, State Bridge Construction and Maintenance Engineer, Texas Department of Transportation Bridge Division, Austin, TX; **Dingyi Yang** and **Timothy E. Bradberry**, Texas Department of Transportation

Monday, March 22, 2010
9:00 am-12:00 pm

Research in Progress **SHERATON 1**
Sponsored by ACI Committee 123, Research and Current Developments

Session Co-Moderators: Aleksandra Radlinska
Assistant Professor
Villanova University
Villanova, PA

Farshad Rajabipour
Assistant Professor
The Pennsylvania State University
University Park, PA

The session will feature presentations of original unpublished results from ongoing research projects and leading-edge concrete technology and research throughout the world.

James Instruments Awardee Presentation **9:00 am**
Investigation of Delaminations in Concrete Using Air-Coupled Impact Echo Method
Taekeun Oh, PhD Student, University of Illinois at Urbana-Champaign, Urbana, IL

Experimental Examination of Confinement Reinforcement in Pretensioned Concrete Beams **9:05 am**
Brandon E. Ross, PhD Student and Research Assistant, University of Florida, Gainsville, FL; and **H.R. Hamilton**, University of Florida

Bond and Shear Behavior of Beams Containing Lightweight Synthetic Particles **9:20 am**
Sami H. Rizkalla, Distinguished Professor of Civil Engineering and Construction, and Director Constructed Facilities Laboratory, North Carolina State University, Raleigh, NC; and **Matthew J. Heiser**, **Amr I. Hosny**, and **Paul Zia**, North Carolina State University

Use of Mixed Mode Fracture Interfaces for the Modeling of FRP Strengthened Beams **9:35 am**
Jae Ha Lee, PhD Candidate, The Pennsylvania State University, State College, PA; and **Maria M. Lopez**, The Pennsylvania State University

Long Term Behavior of Integral Abutment Bridges **9:50 am**
Matthew D. Lovell, Graduate Assistant, Purdue University, West Lafayette, IN; and **Robert J. Frosch**, Purdue University

Monday, March 22, 2010
9:00 am-12:00 pm

Research in Progress (cont.) **SHERATON 1**

An Integrated Framework for Creation and Assessment of Sustainable Construction Processes **10:05 am**
Jacqueline Thompson, PhD Candidate and Sustainable Construction Research Specialist, Arizona State University, Tempe, AZ; and **Howard H. Bashford**, Arizona State University

Integrating 3D Imaging and Discrete Element Modeling for Concrete Fracture Problems **10:20 am**
Eric Landis, Professor and Chair, University of Maine, Orono, ME; **John Bolander** and **Daisuke Asahina**, University of California–Davis; and **Sean de Wolski**, University of Maine

The Effect of Coatings Used to Mitigate Alkali-Silica Reaction and/or Delayed Ettringite Formantion **10:35 am**
Evan R. Wehrle, Graduate Research Assistant, University of Texas, Austin, TX; and **Kevin Folliard**, University of Texas

Influence of Stranding on Chloride Threshold Levels in Prestressing Steels: Test Method and Preliminary Results **10:50 am**
Robert D. Moser, Doctoral Candidate, Georgia Institute of Technology, Atlanta, GA; and **Lawrence F. Kahn**, **Kimberly E. Kurtis**, and **Preet M. Singh**, Georgia Institute of Technology

Research Progress with ASTM C1202 Chloride Test **11:05 am**
Peter Claisse, Professor, Coventry University, Coventry, United Kingdom

Mechanical Properties of Fiber-Reinforced Aerated Concrete (AFRC) **11:20 am**
Aboozar Bonakdar, Graduate Student, Arizona State University, Tempe, AZ; and **Barzin Mobasher**, Arizona State University

Evaluating the Effect of Methods and Calculation Techniques on Apparent Activation Energy (Ea) of Cementious Materials **11:35 am**
Md. Sarwar Siddiqui, Graduate Student, Kansas State University, Manhattan, KS; and **Kyle Riding**, Kansas State University

Extending Internal Curing to Concrete Mixtures with *w/c* Higher than 0.42 **11:50 am**
Mauricio Lopez, Assistant Professor, Pontificia Universidad Católica de Chile, Santiago, Chile

Monday, March 22, 2010
9:00 am-12:00 pm

Technical Session in Honor of Tony Fiorato, Part 1 **SHERATON 4**
Sponsored by the ACI Illinois Chapter

Session Co-Moderators: Ronald G. Burg
Vice President
CTLGroup
Skokie, IL

James M. Clarke
Quality Control Director
Prairie Material
Bridgeview, IL

Part one of this session will highlight Tony Fiorato's many technical contributions to the concrete industry. Presentations that focus on Fiorato's contribution in the codes arena will include an overview of the relationship between ACI and ASTM standards in cement and concrete technology, harmonization of cement standards, reorganization of the ACI 318 building code, and rationalization of concrete core testing protocols.

ACI and ASTM: Cementing the Relationship **9:00 am**
Nicholas J. Carino, Concrete Materials Consultant, Chagrin Falls, OH

Code of Millennium, Reorganization of ACI 318 **9:30 am**
W. Gene Corley, Senior Vice President, CTLGroup, Skokie, IL

ACI's Approach to Durability in ACI 318-08: A More Rational Approach **10:00 am**
Terence C. Holland, Consulting Engineer, Concrete Terry LLC, Auburn Township, OH

Evaluation of Pre-Test Moisture Conditioning of Concrete Cores on Measured Compressive Strength **10:30 am**
Ronald G. Burg, Vice President, CTLGroup, Skokie, IL

Harmonization of Cement Specifications **11:00 am**
Al Innis, Vice President Product Performance, Holcim (US) Inc., Dundee, MI

Effect of Cement Properties on Concrete Performance **11:30 am**
Peter C. Taylor, Associate Director, National Concrete Pavements Technology Center, Ames, IA

Monday, March 22, 2010
9:00 am-12:00 pm

Textile Reinforced Concrete—Modern Developments, Part 1 **SHERATON 3**

Sponsored by ACI Committee 549, Thin Reinforced Cementitious Products and Ferrocement

Session Moderator: Ashish Dubey
Research Associate
USG Corporation
Libertyville, IL

This technical session highlights recent advances in the field of textile reinforced concrete (TRC). Topics covered in the symposium include novel textile reinforcements for concrete, mechanical behavior, durability performance, thermal and fire behavior, modeling and structural design aspects, production methods, and practical applications of textile reinforced concrete. Practicing engineers, architects, structural designers, specifiers, contractors, academicians, and researchers with an interest in the field of textile reinforced concrete will find this technical session highly pragmatic and useful to their professional development.

Introduction **9:00 am**
Ashish Dubey, Research Associate, USG Corporation, Libertyville, IL

Influence of Matrix Composition and Short Fibres on the Workability of Fibre Concrete **9:05 am**
Wolfgang Brameshuber, Professor and Chair, Institute of Building Materials and Research—RWTH Aachen University, Aachen, Germany; and **Marcus Hinzen**, Institute of Building Materials and Research—RWTH Aachen University

Durability of Textile Reinforced Concrete **9:30 am**
Till Büttner, Professor, Institute of Building Materials and Research—RWTH Aachen University, Aachen, Germany; and **Allessandra Keil** and **Michael Raupach**, Institute of Building Materials and Research—RWTH Aachen University

Behavior of Textile Reinforced Concrete Strengthened RC-Structures Under Fire Loading **9:55 am**
Daniel Ehlig, Professor, Institute of Concrete Structures—Dresden University of Technology, Dresden, Germany; and **Frank Jesse** and **Manfred Curbach**, Dresden University of Technology

Monday, March 22, 2010
9:00 am-12:00 pm

Textile Reinforced Concrete—Modern Developments, Part 1 (cont.) **SHERATON 3**

Corrosion Protection of Steel Reinforced Concrete Structural Members in Repair and Strengthening Using TRC **10:20 am**
Matthias Lieboldt, Professor, Institute of Concrete Structures—Dresden University of Technology, Dresden, Germany; and **Viktor Mechtcherine**, Dresden University of Technology

Preformed Textile Reinforcements for Thin-Walled Textile Reinforced Sandwich Building Members **10:45 am**
Steffan Janetzko, Professor, Institute for Textile Technology—RWTH Aachen University, Aachen, Germany

On the Mechanical Behavior of Carbon and Glass Fiber Filament Yarns Under Long-Term Load **11:10 am**
Ayham Younes, Professor, Institute of Textile and Clothing Technology—Dresden University of Technology, Dresden, Germany; **Chokri Cherif**, **Thomas Engler**, and **Andre Seidel**, Institute of Textile and Clothing Technology—Dresden University of Technology

High-Speed Tensile Testing of Textile Composites **11:35 am**
Deju Zhu, PhD Student, Arizona State University, Tempe, AZ; **Barzin Mobasher**, Arizona State University; and **Alva Peled** and **Zvi Cohen**, Ben Gurion University

Monday, March 22, 2010
9:00 am-3:30 pm

Exhibitor Demonstrations **RIVER EXHIBIT HALL**

Exhibitors will demonstrate the capabilities of their company on Monday and Tuesday, March 22nd and 23rd from 9:00 am to 3:30 pm. Presentations may demonstrate equipment operation, introduce new products, demonstrate software capabilities, or describe the services provided by each participating company. These presentations may include PowerPoint shows, videos, and even hands-on workshops. Each demonstration will conclude with a question and answer period. Attendees representing all areas of the concrete industry will find the demonstrations both interesting and educational. Learn more about the products and services offered by the following companies:

Monday Exhibitor Demonstration Schedule		
Time	**Exhibitor**	**Presentation/Demo Title**
9:00 am	Vector Corrosion Technologies	XMesh Gold Cementitious Fibre Reinforced Structural Strengthening
9:45 am	QuakeWrap Inc.	SuperLaminates™, the next Generation of FRP
10:30 am	BASF Construction Chemicals	Introducing a revolutionary workability admixture
11:15 am	Kryton	Integral Waterproofing using KIM crystallization admixtures
12:00 pm	South Atlantic LLC	Recent Research on Galvanized Rebar
12:45 pm	Tekla Inc.	BIM for the Concrete Industry
1:30 pm	Proceq	Introducing the New SilverSchmidt Concrete Test Hammer
2:15 pm	GSSI	Introduction to Ground Penetrating Radar for Concrete Inspection
3:00 pm	Engius LLC	IntelliRock and Concrete Maturity

For a complete listing of each demonstrator and the time of their presentation, pick up the flyer in the Registration area, or refer to signs located in front of the Demonstration Area located in the River Exhibit Hall.

Monday, March 22, 2010

12:00 pm-2:00 pm

✓**Student Lunch** **CHICAGO 6&7**

$50 U.S. per person; FREE to students who preregistered

Sponsored by Baker Concrete Construction, Inc.

Coordinated by the ACI Illinois Chapter and ACI Committee S801, Student Activities

Speaker: George Tuhowski III
General Superintendent and
Director of Sustainability
Leopardo Companies
Hoffman Estates, IL

Topic: The Importance of Sustainable Design

Join other ACI attendees and students for the results of the Student Competitions. Following the awards, featured speaker George Tuhowski III, LEED AP and General Superintendent and Director of Sustainability at Leopardo Companies, will discuss the importance of sustainable design and the significance of thinking "green" when designing future structures. Recently completed LEED projects in Chicago will be highlighted.

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.

Monday, March 22, 2010

Aqua Building Presentation and Tour
Tour 1: 12:00 pm-1:30 pm—SOLD OUT
Tour 2: 12:30 pm-2:00 pm—Registration Required
Meet at the Aqua Building—225 North Columbus Drive (approximately 4 blocks from Sheraton)
Coordinated by ACI Committee 124, Concrete Aesthetics

Take a tour of Aqua and hear from James McHugh Construction about how this striking new concrete tower was built. Aqua is an 82-story mixed-use residential skyscraper. To capture views of nearby landmarks, the architect stretched Aqua's balconies outward, resulting in the building's wave-like forms and irregularly shaped concrete floor slabs. **Note: The roof will be accessed by a fixed ladder. Please dress appropriately.**

Monday, March, 22, 2010
2:00 pm-5:00 pm

Effects of Micro- and Macro-cracking on Durability **SHERATON 5**
Sponsored by ACI Committees 201, Durability of Concrete, and 224, Cracking

Session Co-Moderators: Ralf Leistikow
Principal and Branch Manager
Wiss, Janney, Elstner Associates, Inc.
Duluth, GA

Lawrence J. Valentine
Director of Technical Services
ShrinkageComp Plus, Inc.
Concord, NC

Presenters will discuss the impact of micro- and macro-cracking can have on the long- and short-term durability of concrete in a variety of applications.

Long-Term Water Permeability of Cracks in Concrete **2:00 pm**
Hans W. Reinhardt, Professor, University of Stuttgart, Stuttgart, Germany

Durability of Partially Cracked Axial Concrete Members Subjected to Harsh Environments **2:20 pm**
Mozahid Hossain, Master's Degree Student, North Dakota State University, Fargo, ND; and **Yail Kim**, North Dakota State University

Investigating the Effect of Cracking on Concrete Permeability as a Function of Crack Width and Tortuosity **2:40 pm**
Farshad Rajabipour, Associate Professor, University of Hawaii at Manoa, Honolulu, HI; and **Alireza Akhavan**, University of Hawaii at Manoa

Shrinkage Compensation for Greater Durability **3:00 pm**
Lawrence J. Valentine, Director of Technical Services, ShrinkageComp Plus, Inc., Concord, NC

Recent Advances on Self-Healing of Cement-Based Materials **3:20 pm**
Erik Schlangen, Associate Professor, Delft University of Technology, Postbus, Netherlands

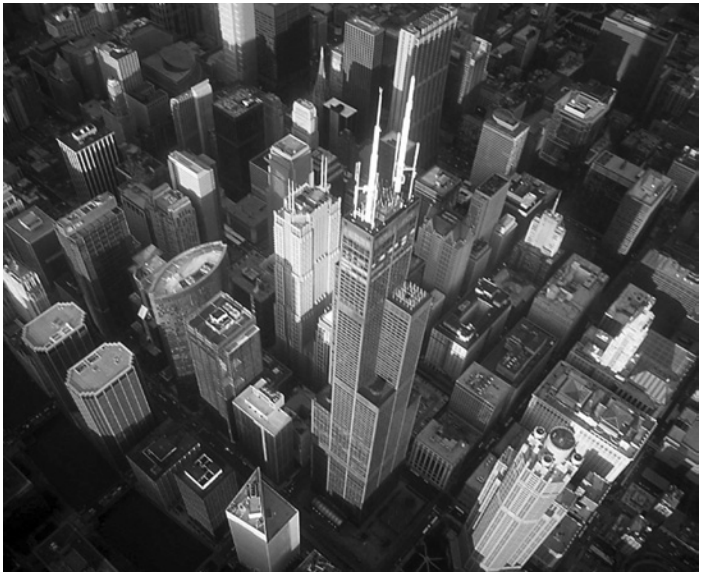
Monday, March, 22, 2010
2:00 pm-5:00 pm

Effects of Micro- and Macro-cracking on Durability (cont.) **SHERATON 5**

X-Ray Absorbtion Measurements of Fluid Ingress Cracked Concrete Under Load **3:40 pm**
Amir Poursaee, Research Assistant Professor, Purdue University, West Lafayette, IN; and **Jason Weiss**, Purdue University

Experimental Considerations for Studying the Impact of Cracks on Reinforcement Corrosion **4:00 pm**
Mette Geiker, Associate Professor, Technical University of Denmark, Kongens Lyngby, Denmark

Micro-cracked Concrete Tension Members Retrofitted with Near-Surface Mounted CFRP Strips Subjected to Wet-Dry Cycles **4:20 pm**
Arifur Rahman, Master's Degree Student, North Dakota State University, Fargo, ND; and **Yail Kim**, North Dakota State University



Monday, March, 22, 2010
2:00 pm-5:00 pm

Extreme Tilt-Up Performance: Design to Construction, Part 2 **SHERATON 2**
Sponsored by ACI Committee 551, Tilt-Up Concrete Construction

Session Moderator: J. Edward Sauter
Executive Director
Tilt-Up Concrete Association
Mount Vernon, IA

Tilt-up concrete is both a frontier and a staple in the building industry. Although largely considered an industrial building system, today's market exhibits design and construction accomplishments that are achieved through effective collaboration of architects, engineers, and contractors. Attendees of this session will uncover the historical significance of tilt-up design and construction and develop a solid foundation of the capabilities and technologies that enable the present and future to be dominated by this building method for low- to mid-rise construction.

Extreme Measures of Education **2:00 pm**
Kimberly Kramer, Director of Graduate Studies, Kansas State University, Manhattan, KS

Total Site Cast Precast Concrete Solutions for Today's Parking Structures **2:30 pm**
Joseph J. Steinbicker, Principal, Steinbicker & Associates, LLC, Dayton, OH

How Did They Build That? Non-Traditional Tilt-Up Structures **3:00 pm**
William R. Braswell, Senior Vice President, BBM Structural Engineers Inc, Longwood, FL

Detailing Tilt-Up Panels Using Revit Structure **3:30 pm**
Philip S. Kopf, President, Kopf Consulting Group, Marietta, GA

BIM Systems and Collaborative Technology for Tilt-Up Design and Construction **4:00 pm**
Shane Walters, Design Engineer, Tilt-Up Design Systems, LLC, Heathrow, FL

Tilt-Up: Engineering and Construction Partner to New Heights **4:30 pm**
James R. Baty, Technical Director, Tilt-Up Concrete Association, Mount Vernon, IA

Monday, March, 22, 2010
2:00 pm-5:00 pm

Serviceability Limit States for Concrete Structures **SHERATON 1**
Sponsored by ACI Committee 343, Concrete Bridge Design

Session Co-Moderators: Hani H. Nassif
Associate Professor
Rutgers University
Piscataway, NJ

Andrzej S. Nowak
Professor of Civil Engineering
University of Nebraska - Lincoln
Lincoln, NE

Limit states are of a fundamental importance in the new generation of load and resistance factor design (LRFD) codes including AASHTO LRFD. So far, the major effort has focused on ultimate (strength) limit states. Yet, in many cases, it is the serviceability limit state (SLS) that governs the design. There is an urgent need to verify the adequacy of the current design criteria for SLS and, if needed, to develop rational provisions.

Introduction **2:00 pm**
Hani H. Nassif, Associate Professor, Rutgers University, Piscataway, NJ

Behavior of Beams Prestressed with Unbonded Tendons at the Serviceability Limit State **2:05 pm**
Hani H. Nassif, Associate Professor, Rutgers University, Piscataway, NJ; and **Ozgur Ozkul**, Leslie E. Robertson Associates

Deflection Control: Dealing with Uncertainty **2:30 pm**
Andrew Scanlon, Professor, Pennsylvania State University, University Park, PA

Camber Variability in Pretensioned Concrete Members **2:55 pm**
Kromel Hanna, PhD Student, University of Nebraska-Lincoln, Lincoln, NE; and **Maher K. Tadros**, University of Nebraska

Target Reliability for Serviceability Limit States **3:20 pm**
Andrzej S. Nowak, Professor, University of Nebraska—Lincoln, Lincoln, NE; and **Piotr Paczkowski**, University of Nebraska—Lincoln

Monday, March, 22, 2010
2:00 pm-5:00 pm

Serviceability Limit States for Concrete Structures (cont.) **SHERATON 1**

Deflection Control of Steel and FRP Reinforced Concrete **3:45 pm**
Peter H. Bischoff, Professor, University of New Brunswick, Fredericton, NB, Canada

Tensile Stress Limits in Webs of Segmental Concrete Bridges **4:10 pm**
Ayman M. Okeil, Assistant Professor, Louisiana State University, Baton Rouge, LA

Prediction of Long-Term Prestress Loss in High-Strength Concrete **4:35 pm**
Amgad F. Girgis, Structural Engineer, Kiewit Engineering Co., Omaha, NE; and **Maher K. Tadros**, University of Nebraska-Lincoln

Monday, March, 22, 2010
2:00 pm-5:00 pm

Technical Session in Honor of Tony Fiorato, Part 2 **SHERATON 4**
Sponsored by the ACI Illinois Chapter

Session Co-Moderators: Ronald G. Burg
Vice President
CTLGroup
Skokie, IL

James M. Clarke
Quality Control Director
Prairie Material
Bridgeview, IL

Part two of this session continues with presentations that highlight Tony Fiorato's contributions to the development and use of high-strength concrete, including the evolution of high-strength concrete in Chicago, and a presentation on how high-strength concrete technology made the world's tallest building possible. Additional presentations will cover Fiorato's contributions that advanced knowledge in such diverse areas as how cement properties affect concrete performance, how Alkali-Silica Reaction (ASR) is controlled and mitigated through effective specifications, and how performance-based specifications were applied to rapid concrete repair materials.

Controlling and Mitigating ASR through Effective Specifications **2:00 pm**
Paul D. Tennis, Manager, Cement and Concrete Technology, Portland Cement Association, Fort Mill, SC

Lunar Concrete - Beyond Codes and Standards **2:30 pm**
T.D. Lin, President, Lintek International, Inc., Wilmette, IL

Evolution of High-Strength Concrete in Chicago **3:00 pm**
Henry G. Russell, Engineering Consultant, Henry G. Russell, Inc., Glenview, IL

How High-Performance Concrete Made the World's Tallest Building Possible **3:30 pm**
Lawrence C. Novak, Director of Engineered Buildings, Portland Cement Association, Skokie, IL

Monday, March, 22, 2010
2:00 pm-5:00 pm

Technical Session in Honor of Tony Fiorato, Part 2 (cont.) **SHERATON 4**

Case Histories in High-Strength Concrete **4:00 pm**
Michael A. Caldarone, Principal Engineer, CTLGroup, Skokie, IL

A Performance-Based Concrete Specification for Rapid Repairs **4:30 pm**
Matthew D. D'Ambrosia, Project Manager, CTLGroup, Skokie, IL

Monday, March, 22, 2010
2:00 pm-5:00 pm

Textile Reinforced Concrete—Modern Developments, Part 2 **SHERATON 3**
Sponsored by ACI Committee 549, Thin Reinforced Cementitious Products and Ferrocement

Session Moderator: Ashish Dubey
Research Associate
USG Corporation
Libertyville, IL

This technical session highlights recent advances in the field of textile reinforced concrete (TRC). Topics covered in the symposium include novel textile reinforcements for concrete, mechanical behavior, durability performance, thermal and fire behavior, modeling and structural design aspects, production methods, and practical applications of textile reinforced concrete. Practicing engineers, architects, structural designers, specifiers, contractors, academicians, and researchers with an interest in the field of textile reinforced concrete will find this technical session highly pragmatic and useful to their professional development.

Introduction **2:00 pm**
Ashish Dubey, Research Associate, USG Corporation, Libertyville, IL

Recommendations for Determining Design Strength Values of Textile Reinforced Concrete for Practical Applications **2:05 pm**
Frank Jesse, Professor, Institute of Concrete Structures—Dresden University of Technology, Dresden, Germany; **Kai Schicktanz** and **Manfred H. Curbach**, Institute of Concrete Structures–Dresden University of Technology

New Model for the Calculation of TRC Sandwich Panels **2:30 pm**
Michael Horstmann, Professor, Institute of Structural Concrete-RWTH Aachen University, Aachen, Germany; **Josef Hegger** and **Ali Shams**, Institute of Structural Concrete—RWTH Aachen University

Strengthening of a Barrel Shell with Textile Reinforced Concrete—Dimensioning and Design **2:55 pm**
Frank Schladitz, Professor, Dresden University of Technology, Dresden, Germany; **Enrico Lorenz**, **Silvio Weiland**, and **Manfred H. Curbach**, Dresden University of Technology

Monday, March, 22, 2010
2:00 pm-5:00 pm

Textile Reinforced Concrete—Modern Developments, Part 2 (cont.) **SHERATON 3**

Strengthening of a Barrel Shell with Textile Reinforced Concrete—Practical Experiences **3:20 pm**
Frank Schladitz, Professor, Dresden University of Technology, Dresden, Germany; **Enrico Lorenz**, **Frank Jesse**, and **Manfred H. Curbach**, Dresden University of Technology

Concepts and Execution Examples for the Use of Textile Reinforced Concrete **3:45 pm**
Christian Schatzke, Professor, Institute of Building Construction and Design – RWTH Aachen University, Aachen, Germany; and **Hartwig Schneider**, Institute of Building Construction and Design-RWTH Aachen University

Application of Textile Reinforced Concrete in Prefabrication **4:10 pm**
Viktor Mechtcherine, Professor, Dresden University of Technology, Dresden, Germany; **Matthias Lieboldt** and **Marko Butler**, Dresden University of Technology

Development, Production and Application of an Insulated Wall System Made of Self-Supporting TRC Sandwich-Façade Elements **4:35 pm**
Michael Glowania, PhD Student, Institute of Textile Technology and Process Engineering – RWTH Aachen University, Aachen, Germany; **Silke Tomoscheit,** and **Thomas Gries**, Institute of Textile Technology and Process Engineering - RWTH Aachen University; and **Michael Horstmann**, **Ali Shams**, and **Josef Hegger**, Institute of Structural Concrete-RWTH Aachen University

Monday, March, 22, 2010
5:00 pm-6:00 pm

Women in ACI Reception **MAYFAIR**
Co-Sponsored by the Society of Women Engineers

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. A cash bar and light hors d'oeuvres will be served.

Monday, March, 22, 2010
5:30 pm-7:00 pm

✓Reception Honoring Tony Fiorato **CHICAGO 9**
$35 U.S. per person
Sponsored by the ACI Illinois Chapter

Please join the ACI Illinois Chapter in honoring Tony Fiorato for his numerous contributions and accomplishments. Fiorato has served the industry in many ways, most notably as President of ACI during the centennial year and as Chairman of the Board of ASTM. He has been recognized as a Fellow of ACI; awarded the ACI Illinois Chapter's prestigious Henry Crown Award, the ACI Henry L. Kennedy Award, and the ACI Henry C. Turner Medal; and recognized by the Reinforced Concrete Research Council with the Arthur J. Boase Award. In 2008, Fiorato was inducted into the National Academy of Engineering. His research in the area of high-strength concrete and concrete durability is widely recognized and highly respected. Perhaps his most notable contributions are his tireless efforts to promote usable, consistent codes and standards and share his knowledge worldwide. The purpose of this reception, in addition to the technical sessions in his honor, is to recognize him for his outstanding long-time selfless dedication to the concrete industry. Hors d'oeuvres and a cash bar will be available.

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.

Monday, March, 22, 2010
7:30 pm-10:00 pm

✓William R. Tolley Retirement Celebration **CHICAGO 6&7**
$90 U.S. per person

Join other ACI friends and colleagues for a celebration dinner and toast in honor of William R. (Bill) Tolley's retirement from ACI. Tolley started his career at the American Concrete Institute in 1975 as the Manager of Administrative Services. Later he served as Senior Managing Director in which he oversaw conventions, education, certification, chapters, information technology, and international activities. He was promoted to Executive Vice President in 2002.

Tolley is the President of the ACI Foundation and its three councils. In addition, he is the President of Creative Association Management (CAM), a subsidiary of ACI that manages other associations such as the International Concrete Repair Institute, American Shotcrete Association, Post-Tensioning Institute, and the Building Owners and Managers Association of Metropolitan Detroit (BOMA).

In addition to his service at ACI, he is the Chairman of the Concrete and Masonry Related Associations and has served as Treasurer, Board member, and Chair of the Finance and Administration Committee for the Council of Engineering and Scientific Society Executives (CESSE). Tolley is a Certified Association Executive and has been active in the American Society of Association Executives.

A Fellow of ACI, he received the ACI Henry L. Kennedy Award for his outstanding leadership in strengthening and expanding chapter activities. In 2006, he was named one of the 10 most influential people in the concrete industry.

Please join us in honoring Bill Tolley's dedication to and retirement from ACI during this very special event!

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.

Tuesday, March 23, 2010
7:00 am-12:00 pm

✓Tour of Metropolitan Water Reclamation District Construction Upgrade
$25 U.S. per person

DEPART CONVENTION ENTRANCE

The Metropolitan Water Reclamation District (MWRD) of Greater Chicago is currently constructing a large upgrade in its sewage treatment facilities to increase the capacity of its Calumet plant, located on the south side of the city. Construction began in January 2009 and is expected to continue through the fall of 2012. The district construction upgrade consists of 12 155 foot diameter primary settling tanks, an enclosed aerated grit removal facility, twin 96-inch diameter force mains, service tunnels, effluent conduits, utility relocation/replacement, and other appurtenances. A guided tour of the construction site will be given by both MWRD and contractor staff.

A valid photo ID such as a driver's license, state ID card, or passport must be provided to enter the plant facilities. Appropriate footwear (no open-toed shoes) is required.

Tuesday, March 23, 2010
9:00 am-12:00 pm

Advances in the Material Science of Concrete, Part 1 **SHERATON 1**
Sponsored by ACI Committee 236, Material Science of Concrete

Session Co-Moderators: Jason H. Ideker
Assistant Professor
Oregon State University
Corvallis, OR

Aleksandra Radlinska
Assistant Professor
Villanova University
Villanova, PA

This session highlights material science aspects of concrete and the distinct impact that the Center for Advanced Cement Based Materials (ACBM) has had in this area over the past 20 years. Emphasis will be placed on advances in understanding the fundamental scientific background of cement-based materials as well as the crucial impact these research efforts have had on the concrete industry.

Introduction **9:00 am**
Jason H. Ideker, Assistant Professor, Oregon State University, Corvallis, OR; and **Aleksandra Radlinska**, Villanova University

In Pursuit of "Crack-Free" Concrete. A Tribute to Professor Surendra P. Shah **9:05 am**
Emmanuel K. Attiogbe, Manager of Technical Services, BASF Construction Chemicals LLC, Beachwood, OH

Performance of High-Density Concrete at Elevated Temperature **9:30 am**
Corina Aldea, Associate Materials Engineer, AMEC Earth and Environmental; and **Bruce Cornelius**, AMEC Earth and Environmental

Monitoring Chemical Shrinkage Using Pressure Sensors **9:50 am**
Sulapha Peethamparan, Assistant Professor, Clarkson University, Potsdam, NY; **Emily Weissinger**, **Joe Vocaturo**, **Jie Zhang**, and **George W. Scherer**, Princeton University

Cement-Based Materials Reinforced with Nanofibers **10:10 am**
Zoi Metaxa, Visiting Pre-Doctoral Fellow, Northwestern University, Evanston, IL; and **Maria S. Konsta-Gdoutos**, Democritus University of Thrace; and **Surendra P. Shah**, Northwestern University

Tuesday, March 23, 2010
9:00 am-12:00 pm

Advances in the Material Science of Concrete, Part 1 (cont.) **SHERATON 1**

Studying of Cement Paste Setting at Microstructural Level **10:30 am**
Giri Venkiteela, PhD Student, University of Louisville, Louisville, KY; and **Zhihui Sun**, University of Louisville

Cement-Based Materials Characterization at the Nanoscale: Nanoindentation and Ultrasonic AFM **10:50 am**
Jae Hong, Post-Doctoral Fellow, Northwestern University, Evanston, IL; **Paramita Mondal,** University of Illinois at Urbana-Champaign; and **Surendra P. Shah**, Northwestern University

X-Ray Nanotomography of Cement Microstructure **11:10 am**
David A. Lange, Professor and Associate Department Head, University of Illinois at Urbana-Champaign, Urbana, IL; **Yaodong Jia**, Tsinghua University; and **Yi-Shi Liu**, University of Illinois at Urbana-Champaign

Modeling Nucleation and Growth Kinetics of Alite Using μic **11:30 am**
Shashank Bishnoi, Post-Doctoral Fellow, Laval University, Quebec, QC, Canada; and **Karen Scrivener**, Ecole Polytechnique Fédérale de Lausanne

Tuesday, March 23, 2010
9:00 am-12:00 pm

Concrete Repair—Xtreme Conditions, Part 1 **SHERATON 3**
Sponsored by the ACI Illinois Chapter

Session Co-Moderators: Paul E. Gaudette
Associate Principal
Wiss, Janney, Elstner Associates, Inc.
Chicago, IL

Joseph S. Balik
Manager of International Projects
WR Grace & Co.
Arlington Heights, IL

The ACI Illinois Chapter is hosting an all-day session on Concrete Repair—Xtreme Conditions. Twelve presentations will be given by local and nationally recognized experts in concrete repair ranging in scope from conditions commonly found in the field to specific building and transportation structures. Included will be such landmark projects as the Baha'i House of Worship, Ronald Reagan Airport, Fenway Park, the I-35 Bridge reconstruction, and Old Chicago Post Office repair. You'll hear the presentations and views of the contractor, material supplier and engineer involved, and satisfy your desire for knowledge on extreme concrete repair!

Corrosion Mitigation at Reagan National Airport **9:00 am**
David W. Whitmore, Vice President, Vector Construction Ltd., Winnipeg, MB, Canada; and **Chris Ball**, Vector Corrosion Technologies

Role of Engineer and Contractor in Repair Work **9:30 am**
Thomas L. Rewerts, President, Thos. Rewerts & Co., LLC, Kansas City, MO

Fenway Park Restoration **10:00 am**
Paul E. Gaudette, Associate Principal, Wiss, Janney, Elstner Associates, Inc., Chicago, IL; and **Ann Harrer**, Wiss, Janney, Elstner Associates, Inc.

Baha'i House of Worship Restoration **10:30 am**
Robert F. Armbruster, President, The Armbruster Company, Inc., Northbrook, IL

Tuesday, March 23, 2010
9:00 am-12:00 pm

Concrete Repair—Xtreme Conditions, Part 1 (cont.) **SHERATON 3**

Repair, The Ultimate Sustainability **11:00 am**
Fred R. Goodwin, Senior Development Scientist, BASF Construction Chemicals LLC, Beachwood, OH

Post-Tensioning Repairs in a Coastal Environment **11:30 am**
John F. Duntemann, Principal, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL; and **Jon Sfura**, Wiss, Janney, Elstner Associates, Inc.

Tuesday, March 23, 2010
9:00 am-12:00 pm

Design Using the Strut-and-Tie Method: Examples and Approaches, Part 1 **SHERATON 2**
Sponsored by ACI Committee 445, Shear and Torsion

Session Co-Moderators: Karl-Heinz Reineck
Professor
University of Stuttgart
Leonberg, Germany

Lawrence C. Novak
Director, Engineered Buildings
Portland Cement Association
Skokie, IL

The provisions for design using the strut-and-tie model (STM) were incorporated in ACI 318 in 2002. Since then, practicing engineers have been using this model for the design of common and uncommon structures. These two sessions present an introduction to the method, design examples, common problems experienced in real design applications, additional guidance for using the STM, and an assessment of existing requirements. The sessions conclude with a discussion of the need for change in the code provisions and further guidance documents.

Introduction **9:00 am**
Karl-Heinz Reineck, Professor, University of Stuttgart, Leonberg, Germany

The STM Design Process and ACI Requirements **9:05 am**
Daniel A. Kuchma, Associate Professor, University of Illinois at Urbana-Champaign, Champaign, IL

Bridge Pier–Hammerhead Bent Cap **9:25 am**
Robin Tuchscherer, Structural Engineer, Datum Engineers, Austin, TX

Design of Deep Pile Caps with Tension Piles **9:50 am**
Widianto Widianto, Structural Engineer, ExxonMobil Development Company, Houston, TX

Foundation Grade Beam **10:10 am**
Leonard P. De Rooy, Professor, Calvin College, Grand Rapids, MI

Tuesday, March 23, 2010
9:00 am-12:00 pm

Design Using the Strut-and-Tie Method: Examples and Approaches, Part 1 (cont.) **SHERATON 2**

Stepped Beam **10:30 am**
Matthias F. Andermatt, Graduate Student, University of Alberta, Breton, AB, Canada

Dapped-End Double T-Beam with Curved Bar Nodes **10:55 am**
Gary J. Klein, Executive Vice President, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL

Evaluation of Prestressed Dapped Girder Ends with Cazaly Hangers **11:20 am**
Katrin Habel, Bridge Designer, AECOM, Edmonton, AB, Canada

Guideline Documents for Using Strut-and-Tie Models **11:45 am**
Karl-Heinz Reineck, Professor, University of Stuttgart, Leonberg, Germany

Closure **11:55 am**
Lawrence C. Novak, Director, Engineered Buildings, Portland Cement Association, Skokie, IL

Tuesday, March 23, 2010
9:00 am-12:00 pm

Extreme Concrete History **SHERATON 4**
Sponsored by ACI Committee 120, History of Concrete

Session Co-Moderators: Lawrence H. Taber
Structural Engineer
Black & Veatch
Kansas City, MO

Richard Yelton
Editor-in-Chief
HanleyWood LLC
Chicago, IL

Come experience our past! Concrete has an exciting history that needs to be explored and cherished. In this session, we will pry open those history books and discover a wide range of topics including Roman cement, historic mixture designs, dam construction, historic ready mixed concrete trucks, and much more.

Introduction **9:00 am**
Lawrence H. Taber, Structural Engineer, Black & Veatch, Kansas City, MO

Roman Cement **9:05 am**
Paul J. Tikalsky, Professor and Chair of Civil and Environmental Engineering, University of Utah, Salt Lake City, UT

Tampa's Concrete Cemetery **9:30 am**
Joseph A. Amon, Senior Consultant, Ardaman Associates Inc, Tampa, FL

History of the Ready Mixed Concrete Truck **9:55 pm**
Richard Yelton, Editor-in-Chief, Hanley Wood, Chicago, IL

The King Bee's Contributions to Concrete Technology **10:20 am**
Jon I. Mullarky, Retired, Chester, MD

Bridging the Imjin River during the Korean War **10:45 am**
Fred Meyer, Associate Professor and Director of Civil Engineering, United States Military Academy, West Point, NY

Tuesday, March 23, 2010
9:00 am-12:00 pm

Extreme Concrete History (cont.) **SHERATON 4**

Old Concrete Dam Construction and Modern Expansion: Ah Ha, A Clue! **11:10 am**
Lawrence H. Taber, Structural Engineer, Black & Veatch, Kansas City, MO

Early Concrete Mixture Designs **11:35 am**
Luke M. Snell, Eminent Scholar, Del E. Web School of Construction, Arizona State University, Tempe, AZ

Tuesday, March 23, 2010
9:00 am-12:00 pm

Structural Health Monitoring for Bridge Design and Evaluation **SHERATON 5**

Sponsored by ACI Committees 342, Evaluation of Concrete Bridges and Bridge Elements, and 343, Concrete Bridge Design

Session Co-Moderators: Ayman M. Okeil
Associate Professor
Louisiana State University
Baton Rouge, LA

Jeffrey Smith
Structures Engineer
Federal Highway Administration–Kentucky Division
Frankfort, KY

Structural Health Monitoring (SHM) activities have picked up pace in recent years. Many bridge projects are now instrumented with monitoring systems that perform various tasks and achieve different goals. Typical SHM activities can be classified into condition assessment and performance evaluation. Condition assessment is conducted on existing bridges to make decisions with respect to their load-carrying capacity, need for rehabilitation, or even replacement. Performance evaluation, on the other hand, is usually a long-term exercise, where the recorded response is used to evaluate the structural performance of the monitored system or component. In all cases, SHM has now become a viable tool that helps engineers answer questions that cannot be addressed in lab settings.

Contributors to this session include consultants, bridge officials, and researchers who are in charge of bridge SHM projects. The session will give the audience valuable information and lessons from existing projects. It will also allow the exchange of information about the latest technological advancements in SHM, including sensor types, communication modules, and data mining techniques.

Field Testing and SHM of Concrete Bridges in Kentucky **9:00 am**
Issam E. Harik, Professor, University of Kentucky, Lexington, KY

City of Seattle's Approach to Long-Term Monitoring **9:30 am**
David Anderson, Senior Civil Engineer Specialist, Seattle Department of Transportation, Seattle, WA

Tuesday, March 23, 2010
9:00 am-12:00 pm

Structural Health Monitoring for Bridge Design and Evaluation (cont.) **SHERATON 5**

Evaluation of Streicker Bridge Performance Using Fiber-Optic Monitoring Systems **10:00 am**
Branko Glisic, Assistant Professor, Princeton University, Princeton, NJ

Test to Failure of a Slab Bridge **10:30 am**
Bruno P. Massicotte, Professor, Ecole Polytechnique Montreal, Montreal, QC, Canada

Remote Monitoring of Bridges in the Everglades **11:00 am**
Rajan Sen, Professor, University of South Florida, Tampa, FL

Structural Health Monitoring for Evaluation of Cracking Potential of Concrete Decks **11:30 am**
Hani H. Nassif, Professor, Rutgers University, Piscataway, NJ

Tuesday, March 23, 2010
9:00 am-3:30 pm

Exhibitor Demonstrations **RIVER EXHIBIT HALL**

Exhibitors will demonstrate the capabilities of their company on Monday and Tuesday, March 22nd and 23rd from 9:00 am to 3:30 pm. Presentations may demonstrate equipment operation, introduce new products, demonstrate software capabilities, or describe the services provided by each participating company. These presentations may include PowerPoint shows, videos, and even hands-on workshops. Each demonstration will conclude with a question and answer period. Attendees representing all areas of the concrete industry will find the demonstrations both interesting and educational. Learn more today about the products and services offered by the following companies:

Tuesday Exhibitor Demonstration Schedule		
Time	**Exhibitor**	**Presentation/Demo Title**
9:00 am	Germann Instruments	Latest NDT systems and their applications
9:45 am	Atlas Restoration LLC	Slab stabilization with polyurethane foam
10:30 am	Michigan Technological University	University Transportation Center for Materials in Sustainable Transportation Infrastructure (UTC-MiSTI) program highlights
11:15 am	Erico	LENTON and LENTON LOCK product demonstration
12:45 pm	Olson Engineering and Instruments	Sonic, radar, and electrical methods for imaging concrete and rebar
1:30 pm	James Instruments Inc.	NDT testing—equipment and applications
2:15 pm	Superior Gunite	Shotcrete installation

For a complete listing of each demonstrator and the time of their presentation, pick up the flyer in the Registration area, or refer to signs located in front of the Demonstration Area located in the River Exhibit Hall.

Tuesday, March 23, 2010
12:00 pm-2:00 pm

✓**Contractors' Day Lunch** **CHICAGO 7**
$55 U.S. per person
Hosted by the ACI Illinois Chapter and Construction Liason Committee

Speaker: Bobby Hull
Retired Hockey Player
Chicago Blackhawks
Sarasota, FL

Topic: A Shot and a Goal!
Memoirs of the Golden
Era of Hockey

Join other ACI attendees and contractors for the Contractors' Day Lunch, featuring Hockey Hall of Famer, Bobby Hull. Bobby Hull is regarded as one of the greatest ice hockey players of all time and perhaps the greatest left winger to ever play the game. He possessed the most feared slapshot in his day. In his 23 years in the National Hockey League and World Hockey Association, he played for the Chicago Blackhawks, Winnipeg Jets, and Hartford Whalers. Hull will regale the audience with anecdotes from his multifaceted career.

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.

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Hot Topic Session: Reconstruction Efforts in Haiti **Chicago 9**
Sponsored by the Hot Topic Committee

Session Moderator: Kirk McDonald
Manager, Technical Services
CA Portland Cement Co.
Glendora, CA

This session will focus on the reconstruction efforts being put in place to start the rebuilding process of Haiti, following the devastating earthquake that took place January 12, 2010. Presentation topics include: the damage and aftermath of the Haiti earthquake from an eyewitness prospective, seismicity of the Caribbean, first-hand evaluation of the construction used in Haiti one month after the earthquake, and lessons learned from RC construction in the Americas from the Haiti Earthquake.

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Advances in the Material Science of Concrete, Part 2 **SHERATON 1**
Sponsored by ACI Committee 236, Material Science of Concrete

Session Co-Moderators: Jason H. Ideker
Assistant Professor
Oregon State University
Corvallis, OR

Aleksandra Radlinska
Assistant Professor
Villanova University
Villanova, PA

This session highlights material science aspects of concrete and the distinct impact that the Center for Advanced Cement Based Materials (ACBM) has had in this area over the past 20 years. Emphasis will be placed on advances in understanding the fundamental scientific background of cement-based materials, as well as the crucial impact these research efforts have had on the concrete industry.

Introduction **2:00 pm**
Jason H. Ideker, Assistant Professor, Oregon State University, Corvallis, OR; and **Aleksandra Radlinska**, Villanova University

Structural Concrete with Lightweight Synthetic Particles **2:05 pm**
Matthew D. D'Ambrosia, Project Manager, CTLGroup, Skokie, IL

Internal Curing: A Discussion of the Role of Pore Solution on Relative Humidity Measurements and the Desorption of LWA **2:30 pm**
Javier Castro, Graduate Research Assistant, Purdue University, West Lafayette, IN; **Jason Weiss**, Purdue University; **Ryan Henkesiefken**, U.S. Concrete, Inc.; **Pietro Lura**, EMPA; and **Farshad Rajabipour**, The Pennsylvania State University

Linking the Structure of Micro- and Macro-porous Concretes to Transport through Electrical Impedance **2:50 pm**
Narayanan Neithalath, Assistant Professor, Clarkson University, Potsdam, NY; and **Jitendra Jain**, Clarkson University

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Advances in the Material Science of Concrete, Part 2 (cont.) **SHERATON 1**

Improvement of Fresh-State Concrete Through Small Additions of Clay **3:10 pm**
Nathan A. Tregger, Graduate Research Assistant, Northwestern University, Evanston, IL; **Raissa P. Douglass-Ferron**, The University of Texas; and **Surendra P. Shah**, Northwestern University

Closed Form Solutions for Uniaxial Passive Restraint Experiments **3:30 pm**
Zachary C. Grasley, Assistant Professor, Texas A&M University, College Station, TX

Quantifying Damage Due to Aggregate Expansion in a Cement Matrix **3:50 pm**
Mohammad Pour-Ghaz, Graduate Research Assistant, Purdue University, West Lafayette, IN; and **Jason Weiss**, Purdue University

High-Speed Tensile Testing of Fabric Cement Composites Under Intermediate Strain Rates **4:10 pm**
Barzin Mobasher, Professor, Arizona State University, Tempe, AZ

Advancements in Cement-Based Materials from Rheology a Perspective **4:30 pm**
Raissa P. Douglass-Ferron, Assistant Professor, The University of Texas, Austin, TX

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Concrete Repair—Xtreme Conditions, Part 2 **SHERATON 3**
Sponsored by the ACI Illinois Chapter

Session Co-Moderators: Joseph S. Balik
Manager, International Projects
WR Grace & Co.
Arlington Heights, IL

Paul E. Gaudette
Associate Principal
Wiss, Janney, Elstner Associates, Inc.
Chicago, IL

The ACI Illinois Chapter is hosting an all-day session on Concrete Repair—Xtreme Conditions. Twelve presentations will be given by local and nationally recognized experts in concrete repair ranging in scope from conditions commonly found in the field to specific building and transportation structures. Included will be such landmark projects as the Baha'i House of Worship, Ronald Reagan Airport, Fenway Park, the I-35 Bridge reconstruction, and Old Chicago Post Office repair. You'll hear the presentations and views of the contractor, material supplier and engineer involved and satisfy your desire for knowledge on extreme concrete repair!

Old Chicago Post Office Shotcrete Repair **2:00 pm**
Blake M. Rago, Project Manager, RH Ward and Associates, Inc., South Chicago Heights, IL; and **Tony Rago**, RH Ward and Associates, Inc.

To Repair or Not to Repair **2:30 pm**
Ward R. Malisch, Technical Director, American Society of Concrete Contractors, Northville, MI

Marina City Façade Repairs **3:00 pm**
Robert F. Joyce, President, Quality Restorations, Inc., Wood Dale, IL

Repair Approaches for Concrete Slab Finish Problems **3:30 pm**
K. Nam Shiu, Vice President, Walker Restoration Consultants, Elgin, IL

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Concrete Repair—Xtreme Conditions, Part 2 (cont.) **SHERATON 3**

Reconstruction of I-35 Bridge **4:00 pm**
Kevin A. MacDonald, Vice President of Engineering Services, Cemstone Concrete Products Co., Mendota Heights, MN

Performance Specifications for Repair Work **4:30 pm**
Michael M. Sprinkel, Managing Director, Virginia Transportation Research Council, Charlottesville, VA

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Contractors' Day Session: Xtreme Local Projects **SHERATON 4**
Sponsored by the ACI Illinois Chapter

Session Co-Moderators: Paul Tuscher
Quality Control
Prairie Material
Bridgeview, IL

Kelly M. Page
Executive Director
International Concrete Repair Institute
Des Plaines, IL

Chicago is known for its innovative use of concrete in a variety of projects, from beautiful skyscrapers to the enormous Chicago Deep Tunnel project. In this session, you can hear about some of the most recent interesting projects within the Chicago Metropolitan area, straight from those intimately involved with these projects.

Constructability and Efficiency of Concrete Construction **2:10 pm**
Bill Carbeau, Director of Special Applications Business, Putzmeister America Inc., Sturtevant, WI

O'Hare Modernization Program **2:50 pm**
William Trudeau, Quality Assurance Manager, O'Hare Modernization Program, Chicago, IL

Constructability—AQUA **3:40 pm**
Paul Treacy, Concrete Superintendent, James McHugh Construction Co., Chicago, IL

Conservation and Relocation of the U-505 Submarine **4:20 pm**
Leonard Koroski, Project Architect, Goettsch Partners, Chicago, IL; **Gregory J. Lakota**, Halvorson and Partners.

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Design Using the Strut-and-Tie Method: Examples and Approaches, Part 2 **SHERATON 2**
Sponsored by ACI Committee 445, Shear and Torsion

Session Co-Moderators: Lawrence C. Novak
Director, Engineered Buildings
Portland Cement Association
Skokie, IL

Karl-Heinz Reineck
Professor
University of Stuttgart
Leonberg, Germany

The provisions for design using the strut-and-tie model (STM) were incorporated in ACI 318 in 2002. Since then, practicing engineers have been using this model for the design of common and uncommon structures. These two sessions present an introduction to the method, design examples, common problems experienced in real design applications, additional guidance for using the STM, and an assessment of existing requirements. The sessions conclude with a discussion of the need for change in the code provisions and further guidance documents.

Introduction: Highlights from Session 1 **2:00 pm**
Lawrence C. Novak, Director, Engineered Buildings, Portland Cement Association, Skokie, IL

Propped Cantilever with Opening **2:10 pm**
Daniel A. Kuchma, Associate Professor, University of Illinois at Urbana-Champaign, Urbana, IL

Design of a Link Beam at a Roof of a Medium-Rise Building **2:35 pm**
Hakim Bouadi, Senior Associate, Walter P. Moore & Associates, Houston, TX

Diaphragm for a Segmental Concrete Bridge **2:55 pm**
Richard J. Beaupre, Senior Bridge Engineer, URS Corporation, Tampa, FL

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Design Using the Strut-and-Tie Method: Examples and Approaches, Part 2 (cont.) **SHERATON 2**

Diaphragm for Extradosed Cable-Stayed Bridge **3:20 pm**
Trevor Kirkpatrick, Structural Engineer, URS Corporation, Tampa, FL

Importance of Reinforcement Detailing **3:45 pm**
Denis Mitchell, William Scott Professor of Civil Engineering, McGill University, Montreal, QC, Canada

Strut-and-Tie Models for Beams Versus Shear Design? **4:15 pm**
Karl-Heinz Reineck, Professor, University of Stuttgart, Leonberg, Germany

Future of ACI STM Provisions and Guidelines **4:35 pm**
Daniel A. Kuchma, Associate Professor, University of Illinois at Urbana-Champaign, Urbana, IL

Closure **4:55 pm**
Karl-Heinz Reineck, Professor, University of Stuttgart, Leonberg, Germany

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Open Paper Session **SHERATON 5**
Sponsored by ACI Committee 123, Research and Current Developments

Session Moderator: Sulapha Peethamparan
Assistant Professor
Clarkson University
Potsdam, NY

The Open Paper Session is a forum for presenting recent technical information that could not be scheduled into other convention sessions.

Introduction **2:00 pm**
Sulapha Peethamparan, Assistant Professor, Clarkson University, Postdam, NY

P2P: The Australian Perspective **2:05 pm**
Ken W. Day, Consultant, Concrete Advice Pty. Ltd, Melbourne, Australia

Monitoring Early Age Microstructure Development of Cement Paste Using Bender Elements **2:24 pm**
Jinying Zhu, Assistant Professor, The University of Texas, Austin, TX; **Seong-Hoon Kee**, The University of Texas

Development of Novel Concrete/Cold-Formed Steel Composite Beams **2:43 pm**
Alexander Wehbe, Design Engineer, Kiewit Engineering Co., Omaha, NE; **Nadim I. Wehbe** and **Arden B. Sigl**, South Dakota State University; and **Lionel E. Dayton**, Nucor Research and Development

The Role of Aggregate Stiffness on Restrained Shrinkage Cracking **3:02 pm**
Kyung-Joon Shin, Graduate Student, Purdue University, West Lafayette, IN; and **Jason Weiss**, Purdue University

Evaluation and Analysis of the Repair of a Post-Tensioned, Precast Concrete, Segmental Bridge **3:21 pm**
Adel El-Safty, Associate Professor, University of North Florida, Jacksonville, FL; and **Robert Bennett**, University of North Florida

Tuesday, March 23, 2010
2:00 pm-5:00 pm

Open Paper Session (cont.) **SHERATON 5**

Electrical Impedance Based Effective Media Approaches for High Performance Concrete Strength Prediction and its Relationship to Maturity Functions **3:40 pm**
Jarrod Persun, Graduate Student, Clarkson University, Postdam, NY; and **Narayanan Neithalath**, Clarkson University

Effect of Lightweight Aggregate and Curing Temperature on the Cracking Tendency of Concrete **3:59 pm**
Benjamin Byard, Graduate Research Assistant, Auburn University, Auburn, AL; and **Anton K. Schindler**, Auburn University

The Origin of Early Age Expansions in Cement Pastes Containing Shrinkage Reducing Admixtures **4:18 pm**
Gaurav Sant, Ecole Polytechnique Fédérale dé Lausanne, Lausanne, Switzerland; **Barbara Lothenback**, EMPA Materials Science and Technology; **Karen Scrivener**, Ecole Polytechnique Fédérale dé Lausanne; and **Jason Weiss**, Purdue University

Aggregate Characterization for Recycled Concrete Aggregates **4:37 pm**
Yogini Deshpande, Post-Doctoral Researcher, Michigan Technological University, Houghton, MI

Tuesday, March 23, 2010
5:00 pm-6:00 pm

Faculty Network Reception **COLUMBUS A&B**

Faculty members and students are invited to attend this informal reception. During this time, you will have an opportunity to exchange ideas and network. Light hors d'oeuvres and a cash bar will be available.

Tuesday, March 23, 2010
6:30 pm-8:00 pm

Concrete Mixer—The Blues! **SHERATON CHICAGO 4-10**
Sponsored by the ACI Illinois Chapter

Chicago is known worldwide as the home of the Blues. Be inspired by the music that was made popular in Chicago during the 1940s and 1950s by artists such as Muddy Waters, Willie Dixon, John Lee Hooker, Howlin' Wolf, and Elmore James during the Blues-themed Concrete Mixer at the Chicago convention! The perfect place to network and relax as you enjoy great music, a taste of Chicago, and cocktails (and maybe a surprise guest or two!), courtesy of the ACI Illinois Chapter.

All ACI attendees MUST wear a name badge to attend. Please use the drink tickets found in your registration packet, or cash to purchase beverages.

Following the Concrete Mixer enjoy more great food at one of Chicago's spectacular eateries. Chicago is such a food lovers' paradise that the only dilemma you'll have is how to choose from so many delicious options. Visit the ACI Illinois Chapter Desk or the hotel concierge for suggestions.

Wednesday, March 24, 2010
8:45 am-1:00 pm

✓Chicago Architecture Tour **DEPART CONVENTION ENTRANCE**
$69 U.S. per person

On foot, we'll tour Chicago's new and renewed buildings along Dearborn Street, including Daley Plaza with its landmark Picasso and surrounding State of Illinois and Chase Bank plazas filled with large-scale sculptures and murals that energize Chicago's Loop. A cruise of the Chicago River and Lake Michigan is the most unique and interesting way to see the city. On this narrated 90-minute Lake and River Cruise, we'll see the best of Chicago's historic and state-of-the-art architecture and learn why Chicago is known as the "Architectural Capitol of the World." **Please note that the cruise sails rain or shine, so please dress in appropriate attire. Stairs are required to reach the cruise boat.** If for some reason the Coast Guard cancels the cruise due to high seas, the time will be spent visiting several architecturally significant buildings and exhibits, including the Rookery, Chicago Architecture Foundation, and the Chicago History Museum. Finally, we'll visit Millennium Park, a 26-acre park that features an ice rink, a 1500-seat indoor theatre for music and dance, the 120 foot high, 3000-seat Jay Pritzker Music Pavilion designed by Frank Gehry, and so much more.

✓=separate fee required

Wednesday, March 24, 2010
9:00 am-12:00 pm

Building Information Modeling in the Concrete Industry, Part 1 **SHERATON 4**
Sponsored by ACI Committee 118, Use of Computers

Session Co-Moderators: Allan P. Bommer
Chief Design Engineer
Bentley Systems, Inc.
Seattle, WA

Phillip J. Antis
Principal, Manager Structural Engineering
AECOM
Arlington, VA

The presentations in this session will illustrate successes, failures, problems, and the potential of using Building Information Modeling (BIM) for concrete structures in any or all phases of a project (design, detailing, fabrication, construction, and operation). Some presentations will be project-specific and others will cover topics such as industry standards, interoperability, and tolerance/fit issues.

Intro to the New Committee 131—Building Information Modeling of Concrete Structures **9:00 am**
Peter J. Carrato, Principal Civil Engineer, Bechtel Corporation, Frederick, MD; and **Allan P. Bommer**, Bentley Systems, Inc.

The Concrete Benefits of BIM **9:10 am**
Erleen Hatfield, Principal, Buro Happold, New York, NY

BIM and Structural Concrete: Constructability Begins in Design **9:35 am**
William F. Ikerd, Director of Integrated Project Delivery Department, Raymond L. Goodson Jr., Inc., Dallas, TX

Potential BIM Applications for Cast-in-Place Concrete in Nuclear Plant Design and Construction **10:00 am**
Peter J. Carrato, Principal Civil Engineer, Bechtel Corporation, Frederick, MD; and **Martin Reifschneider**, Bechtel Corporation

Wednesday, March 24, 2010
9:00 am-12:00 pm

Building Information Modeling in the Concrete Industry, Part 1 (cont.) **SHERATON 4**

Construction Simulation for Transfer Floors and Outriggers of Reinforced Concrete Building Using BIM **10:25 am**
Bohwan Oh, Chief Researcher, Daewoo Engineering and Construction Co., Gyeongi-Do, South Korea; and **Taehun Ha** and **Myungho Lee**, Daewoo Engineering and Construction Company

Virtual Building **10:50 am**
Frank Haase, Senior Manager Virtual Building and Design, Webcor Builders, San Francisco, CA

The Use of BIM to Facilitate Concrete Design and Construction Leveraging Integration **11:15 am**
William M. Klorman, President, W. M. Klorman Construction Corporation, Woodland Hills, CA

Wednesday, March 24, 2010
9:00 am-12:00 pm

Frontiers in the Use of Polymers in Concrete, Part 1 **SHERATON 2**
Sponsored by ACI Committee 548, Polymers and Adhesives for Concrete

Session Co-Moderators: Mahmoud M. Reda Taha
Associate Professor
University of New Mexico
Albuquerque, NM

Mike Stenko
President
Transpo Industries Inc.
New Rochelle, NY

This session focuses on innovative uses of polymers in concrete. These include new types of polymer admixtures, new applications of polymer concrete, structural analysis of new polymer concrete systems, ultra-high-strength polymer concrete, new developments for epoxy modified mortars, the use of saturated acrylic polymers (SAP) for internal curing, and others.

Visco-Elastic Behavior of Concrete Containing Super-Absorbent Polymers **9:00 am**
Eduard Koenders, Associate Professor, Delft University of Technology, Delft, Netherlands; **H. Van der Ham** and **Klaas Van Breugel**, Delft University of Technology

Polymer Concrete for Sustainable Development and the Innovative Use of Recycled Glass in Polymer Concrete **9:20 am**
Paul Mellon, President, Novetas Solutions LLC, Philadelphia, PA

Shrinkage, Creep, and Moisture Transport in Polymer-Based Repair Materials **9:40 am**
Muhammad K. Rahman, Professor, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia; and **M.H. Baluch**, King Fahd University of Petroleum and Minerals

State of Practice in Polymer Concrete Overlays **10:00 am**
David W. Fowler, Professor, The University of Texas, Austin, TX; and **David P. Whitney**, The University of Texas

Wednesday, March 24, 2010
9:00 am-12:00 pm

Frontiers in the Use of Polymers in Concrete, Part 1 (cont.) **SHERATON 2**

A New Latex-Modified Cement Paste Incorporating Carbon Nanotubes **10:20 am**
Mahmoud M. Reda Taha, Associate Professor, University of New Mexico, Albuquerque, NM; **Eslam Soliman** and **Usama F. Kandil**, University of New Mexico

"Green" Novolac-Cementitious Overlays on Industrial Floors in Wet Environments **10:40 am**
Floyd E. Dimmick, Manager and Technical Director, Crown Polymers, LLC, Huntley, IL

Effect of Water-Soluable Polymers as Self-Curing Agent on Portland Cement Mixes Incorporating Silica Fume **11:00 am**
Amr El-Dieb, Professor, United Arab Emirates University, Al Ain, United Arab Emirates; and **A.A.M Mahmoud**, United Arab Emirates University

Rehabilitation of Edouard Pare Bridge Using LMC Overlay **11:20 am**
Jacques A. Bertrand, President, Béton Mobile du Québec, Inc, Lava, Quebec, Canada

Wednesday, March 24, 2010
9:00 am-12:00 pm

International Session: Tall Buildings **SHERATON 1**
Sponsored by the ACI International Committee

A special presentation will be made on the response of concrete buildings during the 27 February 2010 Chilean Earthquake.

Session Co-Moderators: H.S. Lew
Senior Structural Engineer
National Institute for Standards and Technology
Gaithersburg, MD

Mario A. Chiorino
Professor
Politecnico di Torino, Facoltá di Architettura
Torino, Italy

Tall and Innovative: New Ambitions for Concrete Tall Buildings **9:00 am**
David Scott, Principal, ARUP, New York, NY

Some Recent Tall Concrete Buildings in Brazil **9:30 am**
Mario Franco, Partner, Escritório Técnico Julio Kassoy e Mario Franco, Eng. Civis Ltda, São Paulo, Brazil

Costanera Center: Extreme Height in Chile **10:00 am**
Rene Lagos, President, Rene Lagos Associates, Santiago, Chile

Super-tall Residential Towers **10:30 am**
William F. Baker, Partner, Skidmore, Owings & Merrill, Chicago, IL; and **James J. Pawlikowski**, Skidmore, Owings & Merrill, Chicago, IL

Tall Concrete Buildings (Costanera Center) in Chile and Their Seismic Performance During the February 2010 Offshore Maule Chilean Earthquake **11:00 am**
Ronald Klemencic, President, Magnusson Klemencic Associates, Seattle, WA

Questions and Discussions **11:30 am**

Wednesday, March 24, 2010
9:00 am-12:00 pm

Quality Management Systems in the Concrete Industry SHERATON 5
Sponsored by ACI Committee 121, Quality Assurance Systems for Concrete

Session Co-Moderators: Ryan K. Riehle
President and CEO
BuildWays Corporation
Pittsburgh, PA

Stephen Marchese
President
Future Tech Consultants
Minola, NY

This technical session will provide guidance, examples, and experiences demonstrating quality management tools and systems within the concrete industry. This session will be useful to owners, architects, engineers, material suppliers, and consultants.

Quality Management System for the Trans Hudson Express (THE) Project **9:00 am**
Johan C.F. Schor, Vice President of Quality Management, STV Incorporated, New York, NY

Quality Assurance on Port Authority of NY & NJ Projects **9:25 am**
Casimir A. Bognacki, Chief of Materials Engineering Unit, Port Authority of New York & New Jersey, Jersey City, NJ

Constuctor Quality Management at the WTC Transportation Hub Project **9:50 am**
Thomas Tyler, Quality Manager, Skanska USA Civil Northeast, Whitestone, NY

Running a Large QAS Concrete Program **10:15 am**
Michelle E. Walters, Structural Engineer, Hatch Mott MacDonald, Toronto, ON, Canada

Quality Management Methods for the Manufacture of Chemical Admixtures **10:40 am**
Thomas M. Greene, Regional Technical Services Manager, W.R. Grace & Co., Houston, TX

Wednesday, March 24, 2010
9:00 am-12:00 pm

Quality Management Systems in the Concrete Industry (cont.) **SHERATON 5**

Quality Management Methods for the Manufacture of Portland Cement **11:05 am**
Paul D. Brooks, Senior Technical Engineer, Holcim (US) Inc., Albany, NY

In-Transit Process Control for Ready Mixed Concrete **11:30 am**
Eric P. Koehler, Research Engineer, W.R. Grace & Co., Cambridge, MA; **Joe Sostaric**, RS Solutions LLC; and **Tim A. Durning**, W.R. Grace & Co.

Wednesday, March 24, 2010
9:00 am-12:00 pm

What About Adhesive Anchors? Part 1 **SHERATON 3**
Sponsored by ACI Committees 355, Anchorage to Concrete, and 548, Polymers and Adhesives to Concrete

Session Co-Moderators: Donald F. Meinheit
Affiliated Consultant
Wiss, Janney, Elstner Associates, Inc.
Chicago, IL

Richard E. Wollmershauser
Independent Consultant Principal
Richard E. Wollmershauser Consulting
Tulsa, OK

As the ACI 318 Code Committee adopts design procedures for adhesive anchors into the code and the memories of the failures of adhesive anchors in the Boston Central Artery Tunnel ceilings are still fresh in our minds, it is appropriate to review the subject of adhesive anchors. These presentations cover the full breadth of technical information being asked by design professionals and includes design, installation, qualification, and inspection requirements, and continues to discuss the characteristics of sustained load behavior and other specific anchor considerations.

Adhesive Anchors—Requirements for Their Reliable Use in Concrete Construction **9:00 am**
Werner A.F. Fuchs, Director of Fastening Technical Research, University of Stuttgart Institute of Construction Materials, Stuttgart, Germany; and **Rolf Eligehausen**, University of Stuttgart Institute of Construction Materials

Draft Design and Qualification Provisions for Adhesive Anchors in Concrete **9:20 am**
John F. Silva, Director of Codes and Approvals, Hilti North America, San Rafael, CA

Adhesive Anchors: A Comparison of Testing, Qualification, and Design between the USA and Europe **9:40 am**
Jake Olsen, Managing Director, Power Fasteners, Shanghai, China; and **Andra Hoermann-Gast**, Consultant to ICC-ES

Wednesday, March 24, 2010
9:00 am-12:00 pm

What About Adhesive Anchors? Part 1 (cont.) **SHERATON 3**

Installation of Adhesive Anchors—Theory and Practice **10:00 am**
Philipp Grosser, PhD Candidate, University of Stuttgart Institute of Construction Materials, Stuttgart, Germany; **Rolf Eligehausen** and **Werner A.F. Fuchs**, University of Stuttgart Institute of Construction Materials

Building Code Requirements for Inspections of Adhesive Anchors in Concrete **10:20 am**
Brian C. Gerber, Senior Structural Engineer, ICC Evaluation Services, Inc., Whittier, CA; and **Mahmut Ekenel**, International Code Council

Adhesive Anchors in Slabs of Marginal Thickness—A Post-Mortem **10:40 am**
Andrew Budek-Schmeisser, Assistant Professor, New Mexico Institute of Mining and Technology, Socorro, NM; and **Claudia Wilson**, New Mexico Institute of Mining and Technology

Design Method for Splitting Failure Mode of Adhesive Anchor Systems **11:00 am**
Jörg Asmus, Principal and Structural Engineer, Ingenierburo Eligehausen und Asmus, Stuttgart, Germany

Japanese Guidelines for Embedment Depth and Edges on Bonded Anchor Tensile Resistance **11:20 am**
Katsuhiko Nakano, Professor, Niigata Institute of Technology, Kashiwazaki, Niigata, Japan; **Yasuhiro Matsuzaki**, Tokyo University of Science; and **Tomoaki Sugiyama**, Taisei Corporation

ACI-CRSI Adhesive Anchor Installation Certification Update **11:40 am**
Neal S. Anderson, Vice President of Engineering, Concrete Reinforcing Steel Institute, Schaumburg, IL; and **Donald F. Meinheit**, Wiss, Janney, Elstner Associates, Inc.

Wednesday, March 24, 2010
12:00 pm-2:00 pm

✓**International Lunch** **CHICAGO 7**
$30 U.S. per person
Hosted by the ACI International Committee

Speaker: Vincent Mages
Vice President of Climate Change Initiatives
Lafarge Cement
Paris, France

Topic: World Business Council for Sustainable Development Cement (WBCSD) Sustainability Initiative

Join other ACI attendees for a special presentation from Vincent Mages at the International Lunch. Vincent Mages is the Vice President of Climate Change Initiatives at Lafarge Cement. Prior to this role, he was the Vice President of Group Internal Communications. Mr. Mages has occupied various positions in France and Japan, all which have been related to cement, aggregates, and gypsum activities, as well as in marketing business development and strategy. During his presentation, he will highlight the cement industry global initiatives to reduce CO_2, the WBCSD Cement Sustainability Initiative, and the role of cement and concrete in sustainable construction.

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.

Wednesday, March 24, 2010
2:00 pm-5:00 pm

Building Information Modeling in the Concrete Industry, Part 2 **SHERATON 4**
Sponsored by ACI Committee 118, Use of Computers

Session Co-Moderators: Allan P. Bommer
Chief Design Engineer
Bentley Systems, Inc.
Seattle, WA

Phillip J. Antis
Principal, Manager Structural Engineering
AECOM
Arlington, VA

The presentations in this session will illustrate successes, failures, problems, and the potential of using Building Information Modeling (BIM) for concrete structures in any or all phases of a project (design, detailing, fabrication, construction, and operation). Some presentations will be project-specific and others will cover topics such as industry standards, interoperability, and tolerance/fit issues.

A Contractor's Experiments with BIM **2:00 pm**
James T. Davy, Manager of Virtual Construction, McHugh Construction Co., Chicago, IL

Building Information Modeling From Design to Fabrication **2:30 pm**
Scott Hammond, Industry Segment Manager—Structural Engineering, Autodesk, Inc., Waltham, MA

Utilization of an Integrated Reinforced Concrete Model from Design through Construction and Beyond **3:00 pm**
Santanu Das, Vice President—Structural Group, Bentley Systems, Inc., Yorba Linda, CA; and **Jeffrey N. Cochrane**, Applied Systems Associates, Inc.

Concrete BIM: When "Good Enough" BIM Doesn't Cut It **3:30 pm**
Alistair Wells, Sales and Marketing Manager, Tekla, Inc., Kennesaw, GA

Rebar Detailing for BIM **4:00 pm**
Richard Birley, President, Condor Rebar Consultants, Inc., Vancouver, BC, Canada

IFCs for Concrete Construction—Current State of the Industry **4:30 pm**
Edwin T. Dean, Vice President, Nishkian Dean, Portland, OR

Wednesday, March 24, 2010
2:00 pm-5:00 pm

Frontiers in the Use of Polymers in Concrete, Part 2 **SHERATON 2**
Sponsored by ACI Committee 548, Polymers and Adhesives for Concrete

Session Co-Moderators: Mahmoud M. Reda Taha
Associate Professor
University of New Mexico
Albuquerque, NM

David W. Fowler
Professor
University of Texas
Austin, TX

This session focuses on innovative uses of polymers in concrete. These include new types of polymer admixtures, new applications of polymer concrete, structural analysis of new polymer concrete systems, ultra-high-strength polymer concrete, new developments for epoxy modified mortars, the use of saturated acrylic polymers (SAP) for internal curing, and others.

Rapid Concrete Bridge Overlays **2:00 pm**
Michael M. Sprinkel, Associate Director, Virginia Transportation Research Council, Charlottesville, VA

Performance-Based Aspects and Constructability of Bridge Deck Latex Modified Concrete Overlays with and without Fibrous Additives **2:25 pm**
Mohammad A. Al-hassan, Assistant Professor, Purdue University-Fort Wayne, Fort Wayne, IN; and **Suleiman Ashur**, Purdue University-Fort Wayne

Use of Novalac Polymer Concrete in Sewer Application and Why **2:50 pm**
Joseph A. Nuciforo, Vice President, JPCI Services, Mesa, AZ

VESLMC Use on the Pulaski Skyway **3:15 pm**
Chris Davis, Northeastern Manager, CTS Cement Manufacturing Corp, Belmar, NJ

Wednesday, March 24, 2010
2:00 pm-5:00 pm

Frontiers in the Use of Polymers in Concrete, Part 2 (cont.) **SHERATON 2**

Fundamentals and Applications of Hybrid Fiber-Reinforced Polymers Combined with Concrete **3:40 pm**
Thomas Kang, Assistant Professor, University of Oklahoma, Norman, OK; **Woosuk Kim,** University of Oklahoma; and **Dong-Uk Choi**, Hankyoung National University

Properties of Economical Latex-Modified Concrete Using Recycled Paint **4:05 pm**
Aly Said, Assistant Professor, University of Nevada-Las Vegas, Las Vegas, NV; and **Oscar Quiroz**, University of Nevada-Las Vegas

Architectural Applications for Precast Polymer Concrete **4:30 pm**
Constantin Bodea, President, Metro Cast Corp., Westland, MI; and **David W. Fowler** and **David P. Whitney,** The University of Texas

Wednesday, March 24, 2010
2:00 pm-5:00 pm

International Forum for International Chapters and Partners **SHERATON 1**
Sponsored by the ACI International Committee

Session Moderator: Luke M. Snell
Eminent Scholar
Del E. Web School of Construction
Arizona State University
Tempe, AZ

This forum is to update our international chapters on certification programs that are available through ACI and student program ideas, as well as provide general discussions on how to improve your chapter activities.

This forum is open to all attendees. Chapter officers are encouraged to attend.

Introduction **2:00 pm**
Luke M. Snell, Eminent Scholar, Del E. Web School of Construction, Arizona State University, Tempe, AZ

ACI Certification Programs **2:10 pm**
John K. Conn, Manager, Certification Operations and Chapters, American Concrete Institute, Farmington Hills, MI

The Local Sponsoring Group (LSG) for Certification **2:40 pm**
Roberto A. Nunez, Lecturer and Senior Construction Extension Specialist, North Carolina State University, Raleigh, NC

Saudi Arabia Building Code Creates Need for Certifications **3:10 pm**
Mohammad H. Al-Nagadi, President, Saudi Building Code National Committee, Riyadh, Saudi Arabia

Student Competitions in Brazil **3:40 pm**
Selmo C. Kuperman, Director, DESEK, Ltd., São Paulo, Brazil

ACI Student Competitions **4:10 pm**
Lawrence H. Taber, Structural Engineer, Black & Veatch, Kansas City, MO

Comments and Open Discussion on Chapter Activities **4:40 pm**
Luke M. Snell, Eminent Scholar, Del E. Web School of Construction, Arizona State University, Tempe, AZ

Wednesday, March 24, 2010
2:00 pm-5:00 pm

Sustainable Design in Structural Concrete **SHERATON 5**
Sponsored by ACI Committees 130, Sustainability of Concrete, and 351, Foundations for Equipment and Machinery

Session Co-Moderators: James K. Hicks
Executive Vice President of Research and Development
CERATECH Inc.
Baltimore, MD

Mukti L. Das
Principal Civil Engineer
Bechtel Power Corporation
Frederick, MD

This session will include papers on concrete applications that incorporate sustainable design solutions for materials and structures. Ways to reduce the environmental impact associated with concrete materials and construction of structural elements will be explained and discussed. Methods of training and educating engineers and designers in new techniques and practices that leverage concrete's sustainable advantages will be explored. This session will include examples of sustainable production of concrete, material optimization, function-specific design, and cutting-edge methods and applications that can be used to increase the sustainability of concrete structures.

ACI is a U.S. Green Building Council (USGBC) Education Provider. ACI is committed to enhancing the ongoing professional development of the green building industry through top-quality, third-party reviewed education courses or events.

USGBC EDUCATION PROVIDER

The USGBC has approved the technical and instructional quality of this course for 3 GBCI CE Hours towards the LEED Credential Maintenance Program.

Sustainable Design of Heavy Industrial Concrete Structures **2:00 pm**
Javeed Munshi, Principal Engineer, Bechtel Power Corporation, Frederick, MD; and **Mukti L. Das**, Bechtel Power Corporation

Wednesday, March 24, 2010
2:00 pm-5:00 pm

Sustainable Design in Structural Concrete (cont.) **SHERATON 5**

New Development in Lightweight Insulating Concrete **2:30 pm**
Neal S. Berke, Principal Scientist, Grace Construction Products, Cambridge, MA

Sustainable Benefits of On-Site Concrete Batch Plants **3:00 pm**
Kelsey Edwardsen, Structural Engineer, Bechtel Corporation, Richland, WA

How Do We Teach a New Generation of Engineers Green Building and Sustainability? **3:30 pm**
John T. Kevern, Assistant Professor of Civil Engineering, University of Missouri-Kansas City, Kansas City, MO

Precast Possibilities for Sustainable Projects **4:00 pm**
Larry Rowland, Manager Marketing and Technical Service, Lehigh Cement Company, Allentown, PA

Achieving a Sustainable Future Through Performance, Not Prescription **4:30 pm**
Mark F. Chrzanowski, Principal Structural Technologist, CH2MHILL, Newberry, FL

Wednesday, March 24, 2010
2:00 pm-5:00 pm

What About Adhesive Anchors? Part 2 **SHERATON 3**
Sponsored by ACI Committees 355, Anchorage to Concrete, and 548, Polymers and Adhesives to Concrete

Session Co-Moderators: Richard E. Wollmershauser
Independent Consultant Principal
Richard E. Wollmershauser Consulting
Tulsa, OK

Donald F. Meinheit
Affiliated Consultant
Wiss, Janney, Elstner Associates, Inc.
Chicago, IL

As the ACI 318 Code Committee adopts design procedures for adhesive anchors into the code and the memories of the failures of adhesive anchors in the Boston Central Artery Tunnel ceilings are still fresh in our minds, it is appropriate to review the subject of adhesive anchors. These presentations cover the full breadth of technical information being asked by design professionals and includes design, installation, qualification, and inspection requirements, and continues to discuss the characteristics of sustained load behavior and other specific anchor considerations.

Stress Versus Time-to-Failure Test Method for Evaluating the Sustained Load Performance of Adhesive Anchor Systems in Concrete **2:00 pm**
Todd Davis, PhD Candidate, University of Florida, Gainesville, FL; and **Ronald A. Cook**, University of Florida

Behavior and Design of Bonded Anchors Under Sustained Load **2:20 pm**
Rolf Eligehausen, Professor, University of Stuttgart Institute of Construction Materials, Stuttgart, Germany; and **Ronald Blochwitz** and **Werner A.F. Fuchs**, University of Stuttgart Institute of Construction Materials

Evaluation of Long-Term Behavior of Bonded Anchors—Approval Testing Versus Long-Term Results **2:40 pm**
Hannes A. Spieth, Director of Technology Transfer and Research, Fischerwerke GmbH & Co., Waldachtal, Germany

Wednesday, March 24, 2010
2:00 pm-5:00 pm

What About Adhesive Anchors? Part 2 (cont.) **SHERATON 3**

Effect of Environmental Exposure on the Creep Behavior of Adhesive Anchors **3:00 pm**
Adham El Menoufy, Graduate Student, University of Waterloo, Waterloo, ON, Canada; **Hannah C. Schell**, Ministry of Transportation Ontario; and **Khaled A. Soudki** and **Abdel ElSayed**, University of Waterloo

Probability-Based Assessment of Short- and Long-Term Load Bearing Behavior of Bonded Anchors **3:20 pm**
Konrad Bergmeister, Professor, BOKU-University of Natural Resources and Applied Life Science, Vienna, Austria; and **Ronald Mihala**, BOKU-University of Natural Resources and Applied Life Science

Curing and Load Performance of Adhesive Anchor Systems Installed at Low Temperatures **3:40 pm**
Ingo Alig, Head of Physics Department, German Plastics Institute, Darmstadt, Germany; **Ralf Neuerburg**, Hilti Corporation; and **Dirk Lellinger** and **Frank Bohm**, Deutsches Kunststoff Institute

Effect of Fly Ash as Cement Replacement on the Short-Term Bond Strength of Adhesive Anchor Systems **4:00 pm**
Peter Grzesik, Manager of Anchor Approvals & Project Engineer, Hilti North America, Tulsa, OK

Simulation of Adhesive Anchoring Systems in Concrete **4:20 pm**
Fritz Wall, Director—International Regulations and Approvals, Hilti Corporation, Schaan, Liechtenstein; and **Bernhard Winkler** and **Yijun Li**, Hilti Corporation

Strength of Adhesive Anchor Embed Plates in Precast Concrete Under Welding and Eccentric Shear **4:40 pm**
Michael G. Eilers, PhD Candidate, Coreslab Structures Inc., Kansas City, KS; and **Ganesh Thiagarajan**, University of Missouri-Kansas City

Thursday, March 25, 2010
8:00 am-5:00 pm

✓ACI/PCA Simplified Design of Concrete Buildings of Moderate Size and Height Seminar **ONTARIO**
7:30 am Registration, coffee and pastries available
$597 Non-Member Registration Fee
$457 ACI National Members Registration Fee
$125 Full-Time Students (with proof of enrollment)

Speakers:

Mahmoud Kamara
Senior Structural Engineer
Portland Cement Association
Skokie, IL

Lawrence C. Novak
Manager, Building Structures
Portland Cement Association
Skokie, IL

This one-day seminar will focus on the design of concrete buildings of moderate size and height, in accordance with the latest information in ACI 318-08, 2009 IBC, and ASCE 7-05. The purpose of this seminar is to provide civil, architectural, and structural engineers with ways to simplify design procedures, thus reducing the time required to analyze, proportion, and detail small to moderate size projects while still complying with ACI 318-08, "Building Code Requirements for Structural Concrete." Various design considerations that need to be addressed in the structural design and detailing of reinforced concrete buildings will be discussed. Numerous time-saving shortcuts and design aids will be introduced.

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Session Attendance Tracking Form for the ACI Spring 2010 Convention

Chicago, IL • March 21-25, 2010

Use this form to track your attendance at ACI sessions. This form can be submitted to state boards that allow self-reporting of Continuing Education activities as evidence of participation. In most cases, 1 contact hour is equal to 1 Professional Development Hour (PDH). Check with your state board for acceptance criteria. *Please note: ACI does not track and cannot provide documentation confirming attendee participation or attendance at any ACI session held during the convention.*

Instructions: Check off each session you attended and write in the number of PDH credits you earned for each day.

Remember that 1 PDH is equal to a contact hour (nominal) of instruction or presentation, rounded down to the nearest half-hour.

SUNDAY, MARCH 21, 2010

2:00 p.m.-5:00 p.m. **3 PDH**

- ❑ Durability for Concrete of Pavements (325)
- ❑ Durability and Long-Term Performance of SCC (237/201)
- ❑ Ultra High-Performance Concrete for Bridges (343)
- ❑ Innovations in Fire Design of Concrete Structures (216)
- ❑ Incorporating the ASCE Body of Knowledge (E802)

7:30 p.m.-10:00 p.m. **2.5 PDH**

- ❑ 123 Forum: Fly Ash Contributes to Sustainable Concrete Construction—Is it Justified to Reclassify the Material as a Hazardous Waste? (123)

MONDAY, MARCH 22, 2010

9:00 a.m.-12:00 p.m. **3 PDH**

- ❑ Research in Progress (123)
- ❑ Extreme Tilt-up Performance: Design to Construction, Part 1 (551)
- ❑ Textile Reinforced Concrete—Modern Developments, Part 1 (549)
- ❑ Recent Advances in Maintenance and Repair of Concrete Bridges (345)
- ❑ Technical Session in Honor of Tony Fiorato, Part 1 (ACI Illinois Chapter)

2:00 p.m.-5:00 p.m. **3 PDH**

- ❑ Extreme Tilt-up Performance: Design to Construction, Part 2 (551)
- ❑ Technical Session in Honor of Tony Fiorato, Part 2 (ACI Illinois Chapter)
- ❑ Textile Reinforced Concrete—Modern Developments, Part 1 (549)
- ❑ Serviceability Limit States for Concrete Structures (343)
- ❑ Effects of Micro- and Macro-cracking on Durability (224/201)

TUESDAY, MARCH 23, 2010

9:00 a.m.-12:00 p.m. **3 PDH**

- ❑ Advances in the Material Science of Concrete, Part 1 (236)
- ❑ Design Using the Strut-and-Tie Method: Examples and Approaches, Part 1 (445)
- ❑ Concrete Repair—Xtreme Conditions, Part 1 (ACI Illinois Chapter)
- ❑ Extreme Concrete History (120)
- ❑ Structural Health Monitoring for Bridge Design and Evaluation (343)

2:00 p.m.-5:00 p.m. **3 PDH**

- ❑ Open Paper Session (123)
- ❑ Contractors' Day Session (ACI Illinois Chapter)
- ❑ Advances in the Material Science of Concrete, Part 2 (236)
- ❑ Concrete Repair—Xtreme Conditions, Part 2 (ACI Illinois Chapter)
- ❑ Design Using the Strut-and-Tie Method: Examples and Approaches, Part 2 (445)
- ❑ Hot Topic Session: Reconstruction Efforts in Haiti (HTC)

WEDNESDAY, MARCH 24, 2010

9:00 a.m.-12:00 p.m. **3 PDH**

- ❑ International Session: Tall Buildings (IC)
- ❑ Frontiers in the Use of Polymers in Concrete, Part 1 (548)
- ❑ What About Adhesive Anchors? Part 1 (548/355)
- ❑ Building Information Modeling in the Concrete Industry, Part 1 (118)
- ❑ Quality Management Systems in the Concrete Industry (121)

2:00 p.m.-5:00 p.m. **3 PDH**

- ❑ International Forum for International Chapters and Partners (IC)
- ❑ Frontiers in the Use of Polymers in Concrete, Part 2 (548)
- ❑ Sustainable Design in Structural Concrete (351/130)
- ❑ What About Adhesive Anchors? Part 2 (548/355)
- ❑ Building Information Modeling in the Concrete Industry, Part 2 (118)

Enter your name and address here

DAILY PDH TOTALS AVAILABLE

Total completed on Sunday, 3/21/10 _____
Total completed on Monday, 3/22/10 _____
Total completed on Tuesday, 3/23/10 _____
Total completed on Wednesday, 3/24/10 _____
Total number of PDHs completed _____

Thank you for attending the Spring 2010 Convention!

See you in Pittsburgh!

Future ACI Conventions

Fall 2010
Green Concrete in the Steel City
October 24-28, 2010
Westin & David L. Lawrence Convention Center
Pittsburgh, PA

Spring 2011
Concrete—The Strength of Florida
April 3-7, 2010
Marriott Tampa Waterside & Westin Harbour Island
Tampa, FL

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