ACI Fall 2009 Convention Program
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**ACI Fall 2009 Convention**  
**November 8-12, 2009**  
**Marriott New Orleans, New Orleans, LA**

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American Concrete Institute
Board of Direction

President
Florian G. Barth

Vice Presidents
Richard D. Stehly
Kenneth C. Hover

Directors
Dennis C. Ahal
Emmanuel K. Attiogbe
Claude Bédard
Ramón L. Carrasquillo
Beverly A. Garnant
Charles S. Hanskat
Ronald Klemencic
Colin L. Lobo
Joseph C. Sanders
Michael J. Schneider
Andrea J. Schokker
Kari L. Yuers

Past Presidents
Luis E. García
David Darwin
Thomas D. Verti

Executive Vice President
William R. Tolley
ACI President’s Welcome

ACI Members and Guests—Welcome to New Orleans and the ACI Fall 2009 Convention!

It is with great pleasure that I welcome you to New Orleans. As the ACI community gathers in New Orleans for the 2009 Fall convention, it is important that we commend the people of this extraordinary city for inviting us to the place they call home.

The Louisiana Chapter has been looking forward to hosting this convention since Hurricane Katrina cancelled their last scheduled convention in 2005. The chapter has devoted their time and effort to ensure you enjoy the 2009 Fall convention and the city of New Orleans. They have created a truly unique program which will give attendees the opportunity to experience the remarkable history and traditions of New Orleans. The Concrete Mixer on Tuesday night will give you a taste of the most famous tradition in New Orleans, Mardi Gras.

The ACI Fall 2009 convention has so much to offer. Whether you attend a committee meeting, technical and education session, or network with friends and concrete professionals, I hope all of you will gain valuable industry information and experience that will spice up your concrete career.

Lori and I are honored and thrilled to share this week with each one of you. We hope your convention experience is both productive and memorable, and you experience all that the great city of New Orleans has to offer. I would like to thank the Louisiana 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
Dear Friends,

I would like to welcome you to New Orleans for the American Concrete Institute Fall 2009 Convention.

We are pleased to welcome professionals and other attendees to the Crescent City. Please take some time to truly explore some of the sites that make Louisiana one of the most unique places in the world. From the artisans and boutiques of the French Market and the French Quarter in New Orleans, to the historic homes along the Mississippi River, to our world-famous cuisine, Louisiana truly has something to offer everyone.

On behalf of the state of Louisiana, I wish you a productive and enjoyable stay.

Very truly yours,

Governor Bobby Jindal
State of Louisiana
On behalf of the City of New Orleans, I extend my sincerest welcome to the participants of the 2009 American Concrete Institute’s Fall Convention. We are delighted that you have chosen our city as the site for this year’s convention.

I applaud the dedication of the members of the concrete industry. As you gather to network and learn the latest in concrete technology, please know that the valuable work done by your industry is truly needed and appreciated, especially during this time of rebuilding in the City of New Orleans.

Drawing from French, Spanish and West African influences, our heritage thrives through endless varieties of architecture, music and food. Our authentic Creole and Cajun restaurants, jazz clubs, shady courtyards, clacking streetcars and horse-drawn carriages help make this city one of the top cultural destinations in the world. Please be sure to visit our world-renowned Audubon Zoo and the Aquarium of the Americas.

We appreciate your strong support of our city. The rebuilding effort won’t happen overnight but with your support, we will bring back New Orleans better than ever. We hope that you enjoy your time here and keep your experiences with you when you return home. We know that, having welcomed you once to New Orleans, we will welcome you many times in the future.

Here’s to a productive convention and a pleasant stay!

Sincerely,

C. Ray Nagin
Mayor
Share ideas on standards, reports, and codes in the concrete industry. There are over 300 different committees in which you can participate.

Network, Network, Network! During the convention there will be plenty of opportunities to network with key players in the industry. Be sure to attend the Opening Session and Reception, the Student and Young Professional Networking Event, or the blues-themed Concrete Mixer! These events are great places to get to know other convention attendees, meet with colleagues, or catch up with friends for beverages and great conversation.

Attend sessions explaining the latest techniques and hottest topics. Some topics will include:
- Concrete Durability
- Adhesive Anchors
- Concrete Repair
- Quality Assurance
- Corrosion
- Extreme Concrete

See the sights of Chicago: The ACI Illinois Chapter has arranged a variety of tours for attendees and guests to take advantage of throughout the convention. Here are just a few of the tours you can participate in:
- Wonderful Town Tour
- Great Tastes Tour
- Oak Park/River Forest Tour
- Immigrant to Elite Tour
- Obama’s Chicago Tour
- Chicago Architecture Tour

Don’t miss out! Registration opens December 1, 2009! Watch your e-mail for details or visit www.aciconvention.org.
ACI Sustaining Members

ACS Manufacturing Corporation
ALJANS
Ash Grove Cement Company
Ashford Formula
Baker Concrete Construction, Inc.
BASF Admixtures, Inc.
BCS
Boral Material Technologies, Inc.
Bray Structures
Buzzi Unicem
Cantera Concrete Company
CECO
CHRYSO-ProMix Technologies
Commercial Contracting Corporation
Concrete Engineering Specialists
ACI Sustaining Members

Concrete Reinforcing Steel Institute

CTL Group

Dayton Superior

e.construct

e-construct

The Euclid Chemical Co.

Expanded Shale, Clay & Slate Institute

FGC, Inc.

Fibercon International, Inc.

Francis Harvey & Sons

Future Tech Consultants

W.R. Grace & Co.

Headwaters Resources, Inc.

Holcim (US) Inc.

ICS Penetron

IDRA SA

Keystone Structural Concrete, Ltd.

Kleinfelder

Lafarge North America
ACI Sustaining Members

Lehigh Portland Cement Co.

Lithko Contracting, Inc.

Meadow Burke

W. R. Meadows, Inc.

Metromont Corporation

Municipal Testing Lab

OMYA Canada, Inc.

Operating Engineers Training Trust

Oztec

Portland Cement Association

PNA Construction Technologies, Inc.

Precast/Prestressed Concrete Institute

Propex Concrete Systems

Ruentex Group

Scofield

Seretta Construction, Inc.

Sika Corp.

ACI Sustaining Members

Spurlino Materials
Structural Group
Structural Services, Inc.
Triad Engineering, Inc.
Tru Wall Concrete, Inc.

Unibeton Ready Mix
Universal Concrete Products, Ltd., Co.
Wacker Neuson
Webcor Concrete
Westroc, Inc.
Convention Sponsors

The ACI Louisiana Chapter wishes to thank the following organizations for their donations to make the ACI Fall 2009 Convention a success.

MARDI GRAS
ACI Louisiana Chapter
ACI Louisiana Chapter Certification Committee
Baker Concrete Construction
BASF Construction Chemicals, LLC

REX
CAAL
The Euclid Chemical Co.

BACCHUS
ACI Pittsburgh Chapter
Keystone Structural Concrete, Ltd.

ZULU
ACI Alabama Chapter
ACI Arizona Chapter
ACI Carolina Chapter
ACI Georgia Chapter
ACI Greater Michigan Chapter
ACI Illinois Chapter
ACI Intermountain Chapter
ACI Las Vegas Chapter
ACI Missouri Chapter
ACI New Jersey Chapter
ACI New Mexico Chapter
ACI Northeast Ohio Chapter
ACI Northeast Texas Chapter
ACI Rocky Mountain Chapter
ACI San Antonio Chapter
ACI Southern California Chapter
Aimee Pergalsky
ASCE Louisiana Section
ASCE SEI New Orleans Chapter
Boh Brothers Construction
Burk Kleinpeter, Inc.
Carlo Ditta, Inc.
Grace Construction Products
Lamanna Engineering Consultants, LLC
Linfield Hunter & Junius, Inc.
Louisiana Testing & Inspection
P.S.I., Inc.
Vulcan Material Company
Waldemar S. Nelson & Co., Inc.
## Convention Sponsors

**ENDYMION**

| ACI Arkansas Chapter          | Beta Testing & Inspection |
| ACI British Columbia Chapter | C.H. Fenstermaker & Associates |
| ACI Florida Suncoast Chapter | Cycle Construction Co., LLC |
| ACI Greater Miami Valley Chapter | Design Engineering, Inc. |
| ACI Houston Texas Chapter    | Eustis Engineering Services, Inc. |
| ACI Kansas Chapter           | Five Star Products, Inc |
| ACI Maryland Chapter         | Headwaters Resources |
| ACI Mid-South Chapter        | Kulkarni Consultants, APC |
| ACI National Capital Chapter | Lafarge North America |
| ACI San Diego International Chapter | M.A. Cheek Engineering, LLC |
| ACI Western Michigan Chapter | Mix Manufacturing |
| AECOM                        | Modjeski & Masters, Inc. |
| Badeaux Engineers, Inc.      | Thigpen Construction Company |
|                             | Van City |

**ORPHEUS**

| ACI Ontario Chapter         | Alpha Testing & Inspection, Inc. |
| All South Consulting Engineers | Bernie Gaton |
| Building Specialties Co. of Louisiana | Concrete Controls, Inc. |
| James Construction Group, LLC | Jeffery, Thomas, Avegno, Inc. |
| Morphy Makofsky, Inc.        | Schrenk & Peterson Consulting Engineers, Inc. |
| Southern Earth Services     | US Forensics |
|                             | Zeller Design Group |

**CENTURIANS**

| Decorative Concrete Supply, Inc. |
| Future Tech Corporation |

*Sponsors are listed as of 10/7/09.*
ACI Louisiana Chapter
2009 Board of Directors

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James Kapesis, Louisiana Department of Transportation

Vice President
Jose Rodriguez, Burk-Kleinpeter

Treasurer
Timothy Hassenboehler, Louisiana Department of Transportation

Secretary
Paul Ordoyne, Beta Testing and Inspections

Directors
Craig Marks, BASF
Kenneth Meyn, Southern Earth Sciences Inc.
Brian Patin, Post-Tensioned Slabs Inc.
Robert Evans, LA Testing and Inspection Inc.
Mark Vince, Terrebonne Concrete LLC
Sadi Torres, Louisiana Department of Transportation
ACI New Orleans Chapter Convention Committee

Co-Chairs
Bill Rushing, Waldemar S. Nelson and Company Inc.
Mark Cheek, Beta Testing and Inspection

Contractors’ Day
Darrell Elliot, Buzzi Unicem USA

Exhibits
James Kapesis, Louisiana Department of Transportation
Greg Richards, P.S.I. Inc

Fundraising
Om Dixit, C.H. Fenstermaker & Associates

Guest Program
Suresh Shah, Burk-Kleinpeter Inc.

Publicity
Thomas Smith, Design Engineering Inc.

Secretary
Jose Rodriguez, Burk-Kleinpeter Inc.

Social Events
Anthony Lamanna, Lamanna Engineering Consultants, LLC
Joel Dorsa, Waldemar S. Nelson and Company Inc.

Student Program
Norma Jean Mattei, University of New Orleans
Bridget Kelly, Waldemar S. Nelson and Company Inc.

Technical Session
Subhash Kulkarni, Kulkarni Consultants, APC

Treasurer
Donald Meyn, Southern Earth Sciences Inc.
General Information

ACI Registration ACADIA/BISSONET
ACI staff are eager to answer your convention questions at the ACI
Registration Desk during the following hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>2:00 pm – 6:00 pm</td>
</tr>
<tr>
<td>Sunday</td>
<td>7:30 am – 5:00 pm</td>
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<tr>
<td>Monday</td>
<td>8:00 am – 5:00 pm</td>
</tr>
<tr>
<td>Tuesday</td>
<td>8:00 am – 5:00 pm</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8:00 am – 12:00 pm</td>
</tr>
</tbody>
</table>

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 ACADIA/BISSONET
Cancellations, additions, and location changes to the convention
schedule will be posted daily on a monitor inside the exhibit area.

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’ (zero).

Beverage Breaks ACADIA/BISSONET
Beverages are available courtesy of ACI during the following hours.

<table>
<thead>
<tr>
<th>Day</th>
<th>Drink</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Saturday</td>
<td>Soda:</td>
<td>2:00 pm – 5:00 pm</td>
</tr>
<tr>
<td>Sunday-Tuesday</td>
<td>Coffee:</td>
<td>7:00 am – 10:00 am</td>
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<tr>
<td></td>
<td>Soda:</td>
<td>12:00 pm – 3:00 pm</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Coffee:</td>
<td>7:00 am – 10:00 am</td>
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</tbody>
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General Information

ACI 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 Louisiana is 21.

ACI Book Drive Collection bin located in ACADIA/BISSONET
Making Literacy More Concrete!
ACI will once again be conducting a book drive during the ACI Fall 2009 Convention, in an effort to promote literacy. Donated books will be given to the New Orleans branch of Communities in Schools, an organization that strives to champion the connection of needed community resources with schools to help young people successfully learn, stay in school, and prepare for life. All donated books will be given to local schools or directly to children as part of the Communities in Schools partnership with Reading is Fundamental’s book ownership program. For more information on Communities in Schools New Orleans, please visit http://www.cisneworleans.org/.

ACI is asking that each attendee bring a new or gently used book to the convention for children in grades K-12. Book donations may be made in Acadia/Bissonet, during open exhibit hours. Help us reach our goal of 800 books!

ACI Bookstore ACADIA/BISSONET
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 ACADIA/BISSONET
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.
General Information

Membership Information  ACI Bookstore—ACADIA/BISSONET
To learn MORE about ACI membership benefits and how to become a member, visit the ACI Bookstore.

ACI/Elsevier E-Learning  ACI Bookstore—ACADIA/BISSONET
ACI is expanding its reach to provide educational training via the Internet. This program is a partnership between ACI and Elsevier Inc., and covers 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 throughout the week to see a demonstration of this new program.

Cyber Café and Wireless Hot Spot  ACADIA/BISSONET
Stay connected to home and work! Take advantage of the Cyber Café and FREE wireless hot spots available during the following hours:

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

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

Session Handouts on Demand  ACADIA/BISSONET
Handouts are available from speakers who have elected to provide and post them to the ACI website. Stop by the Cyber Café or go to www.aciconvention.org/handouts to download or print a copy of the handouts for the sessions you plan to attend. All presentations for which ACI has received permission will be posted to the ACI Web site following the convention.

Local Information/ACI Louisiana Chapter  Outside ACADIA/BISSONET
ACI Louisiana 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
General Information

Hotel Restaurants & Lounges

Starbucks  LOBBY LEVEL
Open daily 6:30 am – 6:00 pm
For a quick and light breakfast, snack or lunch, stop by Starbucks to pick up coffee, pastries, yogurt, fruit and sandwiches.

5 Fifty 5  2ND FLOOR
Open daily 6:30 am – 11:00 am for breakfast, 11:00 am – 2:00 pm for lunch, and 5:00 pm – 10:00 pm for dinner.
5 Fifty 5 features New Orleans cuisine with a fresh and creative spin. Enjoy fine wines and signature cocktails from the Big Easy while savoring the flavors of comfort food specialties like lobster macaroni and cheese and seafood gumbo.

55 Fahrenheit  LOBBY LEVEL
Open daily 11:00 am – 11:00 pm
Enjoy a drink with friends at New Orleans’ newest wine bar and lounge. 55 Fahrenheit features a wine list with over 200 wine selections, classic cocktails, and a unique atmosphere.

Room Service
Room service is available 24 hours a day.

Restaurant Reservations  LOBBY LEVEL
The concierge will be available to make restaurant reservations and recommendations every day from 6:30 am – 10:00 pm.

Airport Transportation

Airport Shuttle
Airport Shuttle New Orleans offers a scheduled transfer service 7 days a week beginning 3:00 am every 30 minutes until the last scheduled departure, to the New Orleans Airport for $15 each way. Return transfer reservations must be made 24-hours prior to departure. To purchase your shuttle ticket in advance or to learn more about Airport Shuttle New Orleans, please visit www.airportshuttleneworleans.com or call 504-522-3500. Please note that Airport Shuttle New Orleans does make additional stops at other hotels on the way to the New Orleans Airport, which could delay your anticipated departure time.
General Information

Taxis
Departing guests should speak with the hotel concierge to arrange for transportation back to the airport. The average cost of a taxi to the New Orleans Airport is approximately $35 each way, depending on the number of passengers and time of day.

Session Attendance Tracking Form
The Session Attendance Tracking Form found following page 148 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
The Speaker Ready Room is available to moderators, speakers, and committee chairs during the following hours:

Saturday 3:00 pm – 7:00 pm
Monday & Tuesday 7:00 am – 7:00 pm
Wednesday 7:00 am – 3:00 pm

All speakers are requested to check in at the Speaker Ready Room 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

ACI Spring 2010 Convention
The ACI Illinois Chapter will be available Saturday through Tuesday to answer your questions about Chicago and activities at the spring convention. Mark your calendars for March 21-25, 2010 at the Sheraton Chicago!
<table>
<thead>
<tr>
<th>Room Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>ACADIA</td>
<td>3rd Floor</td>
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<tr>
<td>AUDOBON</td>
<td>5th Floor</td>
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<td>BACCHUS</td>
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<tr>
<td>BALCONY I</td>
<td>4th Floor</td>
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<td>BALCONY K</td>
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<td>BALCONY L</td>
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<td>BALCONY N</td>
<td>4th Floor</td>
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<td>BEAUREGARD</td>
<td>5th Floor</td>
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<tr>
<td>BISSONET</td>
<td>3rd Floor</td>
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<tr>
<td>BOARDROOM</td>
<td>Lobby Level</td>
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<td>BONAPARTE</td>
<td>4th Floor</td>
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<td>CARONDELET</td>
<td>3rd Floor</td>
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<td>GALVEZ</td>
<td>5th Floor</td>
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<td>IBERVILLE</td>
<td>4th Floor</td>
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<td>JACKSON</td>
<td>5th Floor</td>
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<td>LAFAYETTE SUITE</td>
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<td>LA GALERIE 1</td>
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<td>LA GALERIE 2</td>
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<td>LA GALERIE 6</td>
<td>2nd Floor</td>
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<tr>
<td>NAPOLEON SUITE</td>
<td>41st Floor</td>
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<td>REGENT</td>
<td>4th Floor</td>
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<td>SALON A</td>
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<td>SALON H</td>
<td>3rd Floor</td>
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<td>ST. CHARLES SUITE</td>
<td>41st Floor</td>
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<td>STUDIO 1</td>
<td>2nd Floor</td>
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New Orleans Marriott Floorplan

2ND FLOOR
STUDIO FLOOR PLAN

3RD FLOOR
GRAND BALLROOM

4TH FLOOR
MEETING ROOMS

5TH FLOOR
MEETING ROOMS

BALCONIES

ACADIA

CANAL STREET
Exhibitors

Exhibitor listing as of 10/8/09

Exhibits

ACADIA/BISSONET

The ACI Louisiana Chapter and the American Concrete Institute wish to thank all exhibitors for their participation and support of the ACI Fall 2009 Convention.

Exhibit Hours

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

BASF Construction Chemicals, LLC  Booth #7

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. Contact BASF Construction Chemicals at 800-628-9990 or visit www.masterbuilders.com.

Big River Industries, Inc.  Booth #14

Big River Industries, Inc. produces high quality expanded clay lightweight aggregates. These aggregates are used in a wide range of applications by customers throughout the South and Midwest. The company began in 1954 with the production of Gravelite, a rotary kiln expanded clay lightweight aggregate produced at the company’s original location near Baton Rouge, Louisiana. Visit www.bigriverind.com for additional information.

Burgess Pigment Company  Booth #20

Burgess Pigment Company will be exhibiting OPTIPOZZ, a class N pozzolan, for high strength concrete applications, or to mitigate ASR, efflorescence, without the handling issues associated with other pozzolans. For additional information, go to www.burgesspigment.com

*Enjoy a special presentation by Burgess Pigment representatives in the presentation area of the exhibit hall, on Tuesday, November 10, 2009 at 8:30 am. See page 32 for further details.
Con-Cure Corporation Booth #28
Con-Cure Corporation, COMMAND Center, and Green Power Technology have joined forces to provide the very best maturity solutions. Wireless or traditional, big jobs or small, cold weather or hot, we’ve got you covered. Take the concrete’s temperature and know its strength! Stop by and see our best-in-class solutions for the concrete industry.

Construction Materials Engineering Council, Inc. Booth #17
The Construction Materials Engineering Council, Inc. (CMEC), is a non-profit organization whose goal is to improve the quality of production, inspection, and testing of construction materials through its many Accreditation, Education, and Certification programs. CMEC inspects and accredits laboratories in the United States, Canada, Honduras, Puerto Rico, and Mexico, and distributes its educational materials worldwide.

Danish Technological Institute Booth #22
The Danish Technological Institute is a self-owned and non-profit institution providing research and development as well as traditional consulting services to national and international clients. The exhibit focuses on our Concrete Centre’s services related to self-consolidating concrete, e.g. measurement of flow properties with the 4C-Rheometer, mix design using 4C-Packing, etc. For additional information, go to www.dti.dk

Delta Core Development, LLC Booth #27
Delta Core Development, LLC, is a leader in the construction, design, and supply of autoclaved aerated concrete (ACC) to the U.S. marketplace. Founded in 2006, Delta Core Development (DCD) was set up to be a construction and supply entity promoting primarily AAC technology as the building material of choice. It is our firm belief at DCD, that AAC is the single finest building material in the world—bar none!

Electro Tech CP, LCC Booth #4
Electro Tech CP is a unique organization that specializes in applying engineered solutions to corrosion problems. Electro Tech CP possesses skills and experience not only in diagnosing corrosion problems, but also in designing optimal countermeasures for corrosion control. For additional information, go to www.cpmonitoring.com.
**Exhibitors**

*Exhibitor listing as of 10/8/09*

**The Euclid Chemical Company**  
Booth #6  
The Euclid Chemical Company, 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.

**FORTA Corporation**  
Booth #16  
Founded in 1978, FORTA is the oldest synthetic fiber reinforcement producer in the country. Celebrating 30 years, FORTA Corporation has grown to become a worldwide leader in synthetic fiber research and development. The most recent innovation is FORTA FERRO, a macro-synthetic fiber that allows for a higher replacement level of conventional steel reinforcement. For further information, go to www.fortacorp.com.

**Germann Instruments, Inc.**  
Booth #’s 23&24  

*A special presentation will be made on Monday, November 9, 2009 at 1:30 pm in the presentation area of the exhibit hall.*

**Grace Construction Products**  
Booth #13  
Headquartered in Cambridge, Massachusetts, 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.
Headwaters Resources Inc.  Booth #3
Headwaters Resources is America’s largest manager and marketer of coal combustion products, including fly ash. Fly ash use improves concrete performance, making it stronger, more durable, and more resistant to chemical attack. Fly ash use also creates significant benefits for our environment by reducing landfill use and offsetting greenhouse gas emissions. Visit www.flyash.com for more information.

Kryton International Inc.  Booth #21
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. To learn more about Kryton, visit www.kryton.com.

Lafarge North America  Booth #9
Lafarge North America is the largest diversified supplier of construction materials in the United States and Canada. The company's products, including cement and cement-related materials, ready-mixed concrete, and aggregates, are used for residential, commercial, institutional and public works construction. For more information, visit www.lafargenorthamerica.com.

Marshall Composite Systems, LLC  Booth #19
Marshall Composite Systems, LLC, is the exclusive manufacturer of C-BAR, a premier composite rebar, with more than 13 years of real-world performance. Marshall's pilot plant and world training center are located in Salem, OR. For additional information, visit www.marshallcomposite.com.

North Carolina State University  Booth #18
North Carolina State University provides graduate education in all areas of Civil Engineering at the masters and PhD levels including the option to pursue the Master of Civil Engineering degree (non-thesis) by distance education. Over 50 courses are offered online on a rotating basis. Visit www.ce.ncsu.edu for more information.
Exhibitors
Exhibitor listing as of 10/8/09

Northeast Solite Corporation Booth #26
Northeast Solite Corporation proudly celebrate 60 years of providing the highest quality, most innovative and ecologically sound construction products available today. Their 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.

Octaform Systems Booth #15
Octaform's finished stay in place concrete forming systems are designed and can be engineered for today's demanding applications, including infrastructure, repair & restoration, wastewater, aquaculture and agriculture tanks, commercial, industrial buildings and vehicle washes. Please visit www.octaform.com.

Proceq USA Inc. Booth #25
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 as well as a host of other products for ultrasonic pulse velocity, corrosion analysis, resistivity, permeability, and pulloff/bond strength test applications. Visit www.proceq-usa.com for additional information.

QuakeWrap Inc. Booth #10
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 crew create innovative solutions specifically tailored to clients. Applications include: beams, columns, walls, tanks, pipes, underwater piles, etc. Please visit www.quakewrap.com for more information.

Silica Fume Association Booth #12
Exhibitors

Exhibitor listing as of 10/8/09

Smart Bridge Tech Inc.  Booth #5
Smart Bridge Tech Inc. is one of the most innovative software companies, specializing in concrete and steel software applications. Our unique approach allows for learning and education of future engineering through detailed step by step analysis with reference to all applicable design specification requirements. For further information, go to www.smartbridgetech.com.

*Enjoy a special presentation by Smart Bridge Tech representatives in the presentation area of the exhibit hall, on Monday, November 9, 2009 at 2:30 pm. See page 31 for further details.

Tekla  Booth #11
Tekla structures is the most comprehensive, flexible 3D modeling and detailing tool available that makes project sales, bidding, and cost estimation easier than ever. Instead of trying to fit together individual pieces that may or may not match, all information including drawings and reports are coordinated in one digital location. This guarantees accurate detailing and more effortless change management within the project. For additional information, go to www.tekla.com.

Twintec USA, Inc.  Booth #8
Twintec USA is a concrete subcontractor that specializes in the design, supply and placement of ‘jointless’ steel fiber reinforced concrete floor slabs. Their unique system can be used for slabs on grade and freezer slabs on insulation, but also for structural applications such as piles supported by slabs and general raft foundations. For additional information, go to www.twintecusa.com.

Vector Corrosion Technologies  Booth #2
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. Contact Vector at 813-830-7566 or visit www.vector-corrosion.com.
Special Events

Saturday, November 7, 2009

Concrete Sustainability Forum
1:00 pm – 5:00 pm
SALON D

Sponsored by ACI Committee ISO-TC71, ACI Committee 130, Sustainability, and the Board Advisory Committee on Sustainable Development

Session Co-Moderators: Koji Sakai
Professor
Kagawa University
Takamatsu, Japan

Julie K. Buffenbarger
Engineering & Architectural Specialist
Lafarge
Medina, OH

Richard D. Stehly
Principal
American Engineering & Testing
Saint Paul, MN

In recent years, sustainability and green design/ construction have received much deserved attention. Through its strategic plan, ACI announced its commitment to expand the understanding of sustainability among the membership, expand resources to support sustainability issues, and increase the content on sustainability in ACI documents and products. This workshop will provide you with additional knowledge and resources to identify opportunities in your ACI committee work, in your work with other organizations, and in your career to make necessary changes to design, construct, and specify buildings and infrastructure in more sustainable ways. Additionally, this workshop will assist the International Organization for Standardization (ISO) TC71/SC8 in gathering information for a new standard being developed on environmental management for concrete and concrete structures.
Sunday, November 8, 2009

Convention #1 Breakfast  LA GALERIE 3
8:00 am – 9:00 am
Sponsored by the ACI Convention Committee

Session Moderator:  Kari L. 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 to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI Convention has to offer.

Student Concrete Cube Competition  ACADIA/BISSONET
12:00 pm – 5:00 pm
Sponsored by the ACI Louisiana Chapter and ACI Committee E801, Student Activities

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

Come watch the future of ACI compete against each other! The objective of the cube competition is to produce a concrete cube that achieves, as closely as possible, a target design strength and a target mass as specified in the rules. Don’t miss this event! Stop by and cheer on your favorite team! We will also have presentations from the first- and second-place winners of the Student Concrete Projects Competition.
Sunday, November 8, 2009

Opening Session and Hardy Cross Lecture Series  CARONDELET  
5:15 pm – 6:30 pm

The ACI Fall 2009 Convention officially begins during the Opening Session and Hardy Cross Lecture Series. Featured speaker Shunsuke Otani, Professor Emeritus at the University of Tokyo, will discuss The Role of Analysis in Earthquake-Resistant Design: A Retrospective.

Engineering seismology was developed in the late nineteenth century, and modern seismographs were developed to record the trace of earthquake motion. With the knowledge on earthquake acceleration signals, equivalent static forces for earthquake inertia effects on buildings were introduced in building codes; first in Italy after the 1908 Messina Earthquake and then in Japan after the 1923 Kanto (Tokyo) Earthquake.

Classical Castigliano’s theorems were used in structural analysis to determine stresses in a building. The slope deflection method was published by W.M. Wilson in 1918 to write a set of linear equations, and an iterative solution method of the linear equations, commonly known as “the moment distribution method” that was developed by Hardy Cross in 1930 for moment-resisting frames under vertical loads. These methods were not practical for routine earthquake-resistant design.

The development of earthquake-resistant design in the age of Hardy Cross will be reviewed in this lecture series.

Opening Reception  ACADIA/BISSONET  
6:30 pm – 7:30 pm
Sponsored by the ACI Louisiana Chapter

After the Opening Session, make your way to the exhibit hall and 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 definitely a networking opportunity you won’t want to miss!
Sunday, November 8, 2009

✓ Professor Thomas T.C. Hsu Honorary Dinner LA GALERIE 2
7:30 pm – 9:30 pm
$80 U.S. per person
Coordinated by ACI Committee 445, Shear and Torsion

Join other ACI attendees in celebrating Thomas Hsu’s extraordinary achievements and life-long career in reinforced concrete. Over the past 20 years, Professor Thomas Hsu has been a pioneer in reinforced concrete under variable conditions. Creator of the Universal Element Tester, this machine is the only machine in the world able to test reinforced concrete slabs under seismic conditions. Dr. Hsu has published comprehensively on micro-cracking, torsion, shear, and design of concrete structures under static, dynamic and earthquake conditions. ACI and the American Society of Civil Engineers jointly honor Dr. Hsu’s life-long contribution to the field of structural engineering by naming the ACI Symposium “Thomas T.C. Hsu Symposium on Shear and Torsion in Concrete Structures.” Symposium sessions will be held on Monday and Tuesday in Salon B. Refer to the session section for a listing of topics.

Student and Young Professional Networking Event 55 FAHRENHEIT
9:00 pm – 10:30 pm
Sponsored by the ACI Collegiate Concrete Council and Advisory Committee for Young Members

The ACI Collegiate Concrete Council and ACI Advisory 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.

✓ = separate fee required
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Monday, November 9, 2009

✓ Student Lunch
12:00 pm – 2:00 pm
$27 U.S. per person; FREE to students who preregister
Sponsored by Baker Concrete Construction

Coordinated by the ACI Louisiana Chapter and ACI Committee E801, Student Activities

Speaker: Sid Jacobson
Director
Sid Jacobson & Associates
Metairie, LA

Topic: Navigating the Task-Relationship Minefield: Long Term Success in the World of Work

Join other ACI attendees and students for the announcement of the Student Competition results. Following lunch, featured speaker Sid Jacobson, Founder and Director of The South Central Institute of Neuro-Linguistic Programming, will give a presentation on Navigating the Task-Relationship Minefield: Long Term Success in the World of Work.

Germann Instruments Demo
1:30 pm

Germann Instruments will be presenting the MIRA Shear Wave 3-D Tomography system, the EYECON, s’MASH Impulse Response, DOCter Impact-Echo, and CAPO-TEST Pullout System for nondestructive investigation of concrete structures. For new construction, they will be showing the iCAR Rheometer, LOK-TEST, MERLIN Bulk Conductivity Meter, Air Void Analyzer (AVA), and the Proove-it Rapid Chloride Permeability System. Other test systems on display will be the Rapid Chloride Test (RCT), BOND-TEST, Galvapulse, and GWT (Germann Water Permeability).

Smart Bridge Tech Inc. Demo
2:30 pm

Designed by Dr. Mohsen Shahawy, P.E., Smart Bridge Suite is a new bridge engineering software, both unique and user friendly, allowing for complete analysis, design, and load rating of various concrete and steel bridges in minutes with full graphical output.

✓ = separate fee required

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Monday, November 9, 2009

Smart Bridge Tech Inc. Demo (cont.)  ACADIA/BISSONET
Smart Bridge Suite provides a professional solution to bridge engineering and helps reduce workloads with cost-effective service. Comprehensive, powerful, and professional, the main features of Smart Bridge Suite are:

- Comprehensive library of concrete girders, vehicles, and materials
- Comprehensive bridge layout capabilities
- Comprehensive output reports
- Integrated design of entire bridge
- Built-in finite element analysis/modeling
- Automatic design
- Details of step-by-step analysis
- 3-D graphically visible design
- Super user-friendly interface and flexible customization

The presentation will introduce the key features, bridge design/analysis, and bridge load rating capabilities of Smart Bridge Suite.

✓ Sunset on the River Jazz Dinner Cruise  DEPART MAIN LOBBY
7:00 pm – 10:00 pm
$69 U.S. per person

Prepare to take a journey back in time on the Mighty Mississippi aboard an authentic steamboat. Your personalized cruise will travel from the heart of the French Quarter through the second busiest port in the world. You will enjoy a dinner buffet of traditional New Orleans Creole cuisine and dance to the sounds of a lively Jazz band. Beverages are available for purchase at the cash bar.

Attendees are encouraged to wear comfortable walking shoes. The boat is four short blocks from the hotel. A map will be provided to attendees and there will be guides along the way to point you in the right direction.

Tuesday, November 10, 2009

Burgess Pigment Company Demo  ACADIA/BISSONET
8:30 am
Burgess Pigment Company will give an overview of classification, processing, and incorporation of OPTIPOZZ into the mix design. Benefits such as reduced permeability and efflorescence, increased strength and chemical resistance, and mitigation of ASR will be discussed. Additionally, general and specific application areas will be presented.

✓ = separate fee required
Tuesday, November 10, 2009

☒ Contractors’ Day Lunch  SALON E
12:00 pm – 2:00 pm
$40 U.S. per person
Hosted by the ACI Louisiana Chapter and Construction Liaison Committee

Speaker:  Tim Ryan
Chancellor
The University of New Orleans
New Orleans, Louisiana

Topic:  Where Will the Next Contractors’ Dollar be Coming From?

Join other ACI attendees and contractors for the Contractors’ Day Lunch. Featured speaker Tim Ryan, Chancellor at the University of New Orleans, will give a presentation on “Where Will the Next Contractors’ Dollar be Coming From?”

Tim Ryan is considered an expert on the New Orleans economy, the Louisiana economy, managerial economics, economic development, the New Orleans and Louisiana tax structure, the hospitality and tourism industries, and the United States economy. Ryan was recently appointed Chancellor of the University of New Orleans, having served as Interim Executive Vice Chancellor since July 2003. Prior to this appointment Ryan was Dean of the College of Business Administration and the Hibernia Professor of Economics at the University of New Orleans.

Concrete Mixer at Mardi Gras World  DEPART MAIN LOBBY
7:00 pm – 10:00 pm
Sponsored by the ACI Louisiana Chapter

Schedule of Events
6:30 pm  Buses start to load on Canal Street
6:45 pm  First bus departs
7:00 – 10:00 pm  Concrete Mixer at Mardi Gras World
8:00 pm  Parade
10:00 pm  Last bus to the Marriott

All ACI attendees MUST wear a name badge to board the bus and enter Mardi Gras World. Please use the drink tickets found in your registration packet, or cash to purchase beverages.
Tuesday, November 10, 2009

Concrete Mixer at Mardi Gras World (cont.) DEPART MAIN LOBBY
Mardi Gras is a year-round celebration you will have a chance to enjoy. The official colors for Mardi Gras are purple, green, and gold, chosen in 1872 by the King of Carnival, Rex. He chose purple to represent justice, green for faith, and gold for power. Experience Mardi Gras with a re-creation of an actual Mardi Gras Parade complete with a marching band and mini floats, and New Orleans-style food and beverages. Look for the special ACI New Orleans collector cups at the bars.

Casual attire and comfortable shoes are suggested. Attendees are welcome to come dressed in costume. Cameras are highly recommended.

Wednesday, November 11, 2009

✓ International Lunch SALON E
12:00 pm – 2:00 pm
$30 U.S. per person
Hosted by the International Committee

Speaker: Khaled Awad
Director of Property Development
Masdar Initiative
Beirut, Lebanon

Topic: Building Green in the Desert

Join other attendees for the International Lunch. Enjoy a special presentation by featured speaker Khaled Awad, Director of Property Development for the Masdar Initiative, who will give a very special presentation on Building Green in the Desert. During this presentation, Awad will discuss how to move from the drawing board to reality in building a sustainable city. He will cover the design, goals, and key features of Masdar City, the world’s first carbon-neutral city.
Thursday, November 12, 2009

Troubleshooting Concrete Forming and Shoring Seminar
LA GALERIE 6
7:30 am registration; coffee and pastries available
8:00 am – 5:00 pm
ACI Member Rate: $457 U.S.
Nonmember Rate: $597 U.S.
Full-Time Student: $125 U.S.

Speakers:
Kim D. Basham
Senior Structural Engineer
KB Engineering LLC
Cheyenne, WY

Larry Erps
Senior Project Manager
Ceco Concrete Construction
Tempe, AZ

Contractors and engineers will learn tips and traps associated with form construction stripping and reshoring, and work through calculations for a reshoring problem. Topics discussed include: forming systems, forming economics, loads and pressures, form removal and reshoring, tolerances and finishes, and formed surface defects.
Tours and Guest Events

Tour tickets may be purchased until 24 hours prior to the event based on availability. All tours will depart from the main lobby.

Sunday-Wednesday

Guest Hospitality ST. CHARLES SUITE
Open to individuals who registered for the guest program ONLY.
Guest name badge required.

Continental Breakfast 7:00 am – 10:00 am
Suite open 10:00 am – 4:00 pm

Sunday, November 8, 2009

Guest Overview ST. CHARLES SUITE
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 Spring 2010 Convention in Chicago and the ACI Fall 2010 Convention in Pittsburgh.

✓ New Orleans Historic City Tour
Depart: 9:30 am from main lobby
Return: 12:30 pm
$52 U.S. per person
You will explore the unique architecture, history, and folklore of the colorful city of New Orleans as you board a deluxe motor coach with an informative and entertaining tour guide. You will begin the tour in the heart of the city, the “Vieux Carré” (French Quarter). Next, you will proceed down fabulous Esplanade Avenue and pass its many historic mansions. Then, you will head north through the lovely Mid-City to the majestic City Park and Lake Ponchartrain. Your route back toward the river will follow historic St. Charles Avenue, the avenue of some of the city’s grandest mansions. Please note that lunch is not included on this tour.

✓ French Quarter Walking Tour
Depart: 2:30 pm from main lobby
Return: 4:30 pm
$35 U.S. per person
Enjoy an informative and entertaining walking tour through the French Quarter of New Orleans. While strolling through the charming quarter, try to imagine the lonely expanse of land that greeted Jean-Baptiste nearly three centuries ago. Today, the Vieux Carré is home to fine restaurants, antiques, and attractions. You will witness the symmetry of design employed by French engineers and French and Spanish Colonial architecture.

✓ = separate fee required
Tours and Guest Events

Tour tickets may be purchased until 24 hours prior to the event based on availability. All tours will depart from the main lobby.

Monday, November 9, 2009

✓ Taste of New Orleans Cooking Class and Lunch with a Mini French Quarter Walking Tour
Depart: 9:30 am from main lobby
Return: 1:00 pm
$58 U.S. per person
The popularity of Cajun and Creole cooking is sweeping the U.S.; and after this exciting class, you’ll be able to join the culinary bandwagon! You’ll laugh and learn while watching the preparation of some of the wonderful foods of Louisiana. A highly skilled and entertaining chef will share the secrets of preparing and seasoning flavorful local favorites such as chicken andouille gumbo, spicy jambalaya, delicious bread pudding, and pecan pralines. You will learn the secrets of New Orleans cooking and partake in generous portions during a taste-tempting lunch following class. The cooking demonstration will be easy for you to duplicate at home with the complimentary recipes and cooking tips you’ll receive at the end of the class.

Guest Tea
3:30 pm – 5:00 pm
ST. CHARLES SUITE
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.

✓ Sunset on the River Jazz Dinner Cruise
Depart: 7:00 pm from main lobby
Return: 10:00 pm
$69 U.S. per person
Prepare to take a journey back in time on the Mighty Mississippi aboard an authentic steamboat. Your personalized cruise will travel from the heart of the French Quarter through the second-busiest port in the world. You will enjoy a buffet dinner of traditional New Orleans Creole cuisine and dance to the sounds of a lively Jazz band. Beverages are available for purchase at the cash bar.

✓ = separate fee required
Tours and Guest Events

Tour tickets may be purchased until 24 hours prior to the event based on availability. All tours will depart from the main lobby.

Tuesday, November 10, 2009
✓ Mississippi River Plantation Tour
  Depart: 9:00 am from main lobby
  Return: 2:00 pm
  $92 U.S. per person
  Come join a discovery tour of Louisiana’s past, up scenic River Road. Prepare to enter the Oak Alley Plantation, the “Grande Dame of the Great River Road,” where the quarter-mile canopy of giant live oak trees forms an unforgettable avenue leading to the Greek-revival style antebellum home. After a leisurely lunch of delicious traditional Cajun and Creole dishes, you will enjoy a guided tour of Oak Alley’s two-story mansion and extensive grounds.

Wednesday, November 11, 2009
✓ Louisiana Swamp Tour
  Depart: 9:00 am from main lobby
  Return: 1:00 pm
  $69 U.S. per person
  Take a journey into the swamplands of Louisiana. Picture the moss hanging on gnarled cypress trees as you travel into one of the wildest and most pristine river swamps in America. As your boat drifts through the waterways, you will learn about the Louisiana wetlands and the inhabitants of the swamp, particularly the life and habits of the American alligator. Please note that lunch will not be included on this tour.

✓=separate fee required
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required
TG = Task Group

Friday, November 6, 2009

6:30 pm – 9:00 pm
TAC Technical Activities M1 SALON B

Saturday, November 7, 2009

7:00 am – 6:00 pm
TAC Technical Activities M2 BALCONY K

1:00 pm – 3:00 pm
562-D Eval Repair & Rehab - Struct Repair Design SALON B

1:00 pm – 5:00 pm
Concrete Sustainability Forum SALON D
EAC Educational Activities M1 SALON C
562-F Eval, Repair & Rehab-General BALCONY J

1:00 pm – 6:00 pm
301 Specifications M1 SALON E

3:00 pm – 5:00 pm
376 RLG Containment Structures - M1 SALON B

5:00 pm – 9:00 pm
562-A Eval, Repair & Rehab - Life Safety SALON B
562-C Eval, Repair & Rehab - Structural Analysis SALON C
562-E Eval, Repair & Rehab - Durability Qlty Assurance BALCONY J

Sunday, November 8, 2009

7:00 am – 8:00 am
TAC/SDC TAC & Strategic Development Council SALON E
301-SC Spec-Steering Committee STUDIO 10

7:00 am – 2:00 pm
TAC Technical Activities M3 SALON D

8:00 am – 9:00 am
Convention #1 Breakfast LA GALERIE 3
Guest Overview ST. CHARLES
562-B Eval, Repair & Rehab - Loads STUDIO 4

8:00 am – 9:30 am
341-D Perf Based Seismic Design LA GALERIE 6
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

Separate fee required

TG = Task Group

Sunday, November 8, 2009 (cont.)

8:00 am – 10:00 am
E 706 Repair Application Procedures STUDIO 3
E 801 Student Activities LA GALERIE 2

8:00 am – 10:30 am
CLC Construction Liaison LA GALERIE 1

8:00 am – 11:00 am
TAC-RG1 TAC Review Group 1 IBERVILLE
TAC-RG2 TAC Review Group 2 BACCHUS
TAC-RG3 TAC Review Group 3 REGENT
445-B Shear & Torsn-Seismic Shear LAFAYETTE

8:30 am – 9:30 am
546-A Repair-Underwater BALCONY J

8:30 am – 10:00 am
342 Bridge Evaluation STUDIO 6
373 Prestressed/Tendons BALCONY K

8:30 am – 10:30 am
549-A Thin Reinforced-Premix GFRC STUDIO 8

8:30 am – 11:00 am
551 Tilt-Up LA GALERIE 4

8:30 am – 11:30 am
MEMC Membership BALCONY 1
315-B Detailing-Constructibility JACKSON
350-C Env Str-Reinf & Devel STUDIO 10
408 Development and Spicing STUDIO 9
440-H FRP-Reinforced-Concrete STUDIO 2

8:30 am – 12:00 pm
301 Specifications M2 LA GALERIE 5

8:30 am – 12:30 pm
347 Formwork STUDIO 7

9:00 am – 5:00 pm
376 RLG Containment Structures M2 STUDIO 4
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required      TG = Task Group

Sunday, November 8, 2009 (cont.)

9:30 am – 10:30 am
546-B Repair-Material Selection Guide BALCONY J

9:30 am – 11:00 am
341-A Equake Res Brdgs-Columns LA GALERIE 6
506-A Shotcreting-Evaluation BALCONY M

9:30 am – 12:30 pm
✓ New Orleans Historic City Tour DEPART MAIN LOBBY

10:00 am – 11:30 am
E 701 Materials for Concrete Construction BALCONY L
IC-Part International Partnerships & Publications STUDIO 3

10:00 am – 1:00 pm
228 Nondestructive Testing STUDIO 6
421 Reinf Slabs LA GALERIE 2

10:00 am – 3:00 pm
301-F Spec-Precast Concrete Panels BALCONY N

10:30 am – 11:30 am
546-C Repair-Guide BALCONY J

10:30 am – 1:30 pm
445-A Shear & Torsn-Strut & Tie STUDIO 8

10:30 am – 2:00 pm
549 Thin Reinforced LA GALERIE 3

11:00 am – 12:30 pm
341-B Equake Res Brdgs-Pier Walls LA GALERIE 6
506-G Qualifications for Projects BALCONY M

11:00 am – 3:00 pm
301-H Spec-Tilt-Up Constr & Arch Conc LAFAYETTE

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Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required  TG = Task Group

Sunday, November 8, 2009 (cont.)

11:30 am – 1:00 pm

<table>
<thead>
<tr>
<th>HTC</th>
<th>Hot Topic</th>
<th>STUDIO 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>221</td>
<td>Aggregates</td>
<td>BALCONY J</td>
</tr>
<tr>
<td>335</td>
<td>Composite Hybrid</td>
<td>BALCONY I</td>
</tr>
<tr>
<td>350-SC</td>
<td>Env Str-Steering Comm</td>
<td>STUDIO 3</td>
</tr>
<tr>
<td>374-TG2</td>
<td>Protocol for Testing RC Structural Elements</td>
<td>STUDIO 10</td>
</tr>
<tr>
<td>548-C</td>
<td>Structural Polymer Design</td>
<td>BALCONY L</td>
</tr>
</tbody>
</table>

11:30 am – 3:30 pm

| 301-D | Spec-Lightweight & Massive Concrete | LA GALERIE 4 |

11:30 am – 5:00 pm

| 562   | Eval, Repair & Rehab           | SALON E   |

12:00 pm – 5:00 pm

Student Concrete Cube Competition ACADIA/BISSONET

12:30 pm – 2:00 pm

| 130-F | Social Issues                | STUDIO 7  |
| 439-A | Steel Reinf-Wire            | BALCONY M |
| 445-E | Shear & Torsn-SOA Torsion   | REGENT    |

1:00 pm – 2:30 pm

| ISO/TC 71 | ISO/TC 71 Advisory Cmte | BALCONY I |

1:00 pm – 3:00 pm

| 345   | Bridge Construction         | BALCONY J |
| 445-C | Shear & Torsn-Punching Shear| STUDIO 3  |

1:00 pm – 4:00 pm

| BAC-SD | Board Advisory Committee on Sustainable Devlp | LA GALERIE 2 |

1:00 pm – 5:00 pm

| 301-A | Spec-Gen Req Definitions & Tolerances | STUDIO 10 |
| 301-C | Spec-Placing Consolidating & Curing   | BALCONY L |
| 301-E | Spec-Prestressed Concrete            | STUDIO 1  |
| 301-G | Spec-Shr Comp Conc & Ind Floor Slabs | STUDIO 9  |
| 305   | Hot Weather                        | LA GALERIE 5 |
| 336   | Footings                           | STUDIO 2  |
| 355   | Anchorage                          | SALON A   |
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Sunday, November 8, 2009 (cont.)

1:30 pm – 3:00 pm
341-C  Equake Res Brdgs-Retrofit  LA GALERIE 6
440-D  FRP-Research  LA GALERIE 1
506-B  Shotcreting-Fiber Reinforced  STUDIO 5

1:30 pm – 4:30 pm
370  Dynamic & Vibratory Effects  STUDIO 8

1:30 pm – 5:00 pm
350-E  Env Str-Precast/Prestressed  JACKSON

2:00 pm – 3:00 pm
TAC/ICRI  TAC & International Concrete Repair Institute  STUDIO 6
548-TG  Polymers-TG  IBERVILLE

2:00 pm – 3:30 pm
209-A  Statistics Procedures  BOARDROOM
236-B  Material Science-Transport Mechanisms  BACCHUS

2:00 pm – 4:00 pm
215  Fatigue  LA GALERIE 3

2:00 pm – 5:00 pm Sessions
Emerging Technologies in Civil Infrastructure  SALONS G&H
Application of Fracture Mechanics to Concrete Structures and Composites  SALON C
How I Spiced Up My Concrete  SALON B
Construction, Formwork, Scheduling, Tolerances, and Communication  SALON F

2:00 pm – 5:00 pm
C 650  Tilt-Up Constructor Certification  REGENT
RCC  Responsibility  BALCONY K
309  Consolidation  BALCONY M
315  Detailing  STUDIO 7
352  Joints  SALON D
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required TG = Task Group

Sunday, November 8, 2009 (cont.)

2:30 pm — 4:30 pm
✓ French Quarter Walking Tour DEPART MAIN LOBBY

2:30 pm – 5:00 pm
224 Cracking BALCONY I

3:00 pm – 4:30 pm
441-E Column Multi-Spiral Rein STUDIO 5

3:00 pm – 5:00 pm
E 601 Seminar Oversight Committee LAFAYETTE
121 Quality Assurance BALCONY N
201-A Durability-Sulfate Attack BALCONY J
341 Earthquake-Resistant Bridges LA GALERIE 6
423-445 Adhoc Grp on Shear in Prestress Conc STUDIO 3
440-L FRP-Durability LA GALERIE 1

3:30 pm – 5:00 pm
Intl-Cert International-Certification BACCHUS
236-D Material Science - Nanotechnology of Concrete M1 LA GALERIE 4
Guest Tea ST. CHARLES

4:00 pm – 5:00 pm
CLGE College Concrete Council LA GALERIE 3
123 Research LA GALERIE 2

5:15 pm – 6:30 pm
Opening Session CARONDELET

6:30 pm – 7:30 pm
Opening Reception ACADIA/BISSONET

7:30 pm – 9:30 pm
✓ Thomas T.C. Hsu Honorary Dinner LA GALERIE 2

9:00 pm – 10:30 pm
Student and Young Professional Networking Event 55 FAHRENHEIT
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required  TG = Task Group

Monday, November 9, 2009

6:30 am – 8:15 am
Workshop for Technical Committee Chairs  SALONS D&E

7:00 am – 8:30 am
Speaker Skills Training Breakfast  LA GALERIE 3
IC-Conf  International - Conferences  IBERVILLE

8:15 am – 10:00 am
351-B  Grtng Fndns - Equip Machnry  BALCONY M

8:30 am – 9:30 am
343-B  Bridge Deck Design  BACCHUS

8:30 am – 10:00 am
E 802  Teaching Methods and Educational Materials  STUDIO 4
118  Computers  IBERVILLE
130-A  Materials  STUDIO 7
439  Steel Reinforcement  NAPOLEON
440-G  FRP-Student  BALCONY K
524  Plastering  STUDIO 10
544-B  FRC-Education  STUDIO 9

8:30 am – 10:30 am
PUBC  Publications  BALCONY N

8:30 am – 11:00 am
506-C  Shotcreting-Guide  JACKSON
548-A  Polymer - Overlays  REGENT

8:30 am – 11:30 am
C 610  Field Technician Cert  LA GALERIE 3
209  Creep & Shrinkage  STUDIO 5
311  Inspection  STUDIO 8
437  Strength Evaluation  STUDIO 2
543  Piles  BOARDROOM
546  Repair  LA GALERIE 6

8:30 am – 12:00 pm
355-TG  Anchorage TG  BALCONY L
362-A  Parking Str-Standard  BALCONY I
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required        TG = Task Group

Monday, November 9, 2009 (cont.)

8:30 am – 12:30 pm
374       Seismic Design
          LA GALERIE 1

8:30 am – 1:00 pm
301-B     Spec-Formwork & Reinforcement
          BALCONY J
302       Floor Construction
          LA GALERIES 4&5
350-B     Env Str-Durability
          LAFAYETTE

8:30 am – 6:30 pm
350-D     Env Str-Structural
          STUDIO 1

9:00 am – 11:00 am
365       Service Life
          STUDIO 6

9:00 am – 12:00 pm Sessions
Research in Progress

Thomas T.C. Hsu Symposium, Part 1:
Recent Advances in Seismic Shear of
Wall-Type Structures

Things You Need to Know About the
Workability of Concrete

Nanotechnology of Concrete: The Next Big
Thing is Small, Part 1

The Leading Edge of Pervious Concrete,
Part 1

Simple Tools and Gadgets which Help
Solve Your Problems

9:00 am – 1:00 pm
423       Prestressed
          LA GALERIE 2

9:30 am – 10:00 am
343-A     Design
          BACCHUS

9:30 am – 1:00 pm
✓Taste of New Orleans

DEPARTS MAIN LOBBY
## Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

- Separate fee required
- TG = Task Group

### Monday, November 9, 2009 (cont.)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00 am – 11:30 am</td>
<td>E 804 Educational Awards Nomination Committee IBERVILLE</td>
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<td>440-I FRP-Prestressed Concrete BALCONY M</td>
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<tr>
<td>10:00 am – 12:00 pm</td>
<td>445-D Shear &amp; Torsn - Database BACCHUS</td>
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<tr>
<td>10:00 am – 1:00 pm</td>
<td>207 Mass Concrete STUDIO 10</td>
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<td>216 Fire Resistance STUDIO 9</td>
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<td>232-A Fly Ash-Use of Nat Pozzolans BALCONY K</td>
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<td>343 Bridge Design NAPOLEON</td>
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<td></td>
<td>349-A&amp;B Nuclear Str-Design &amp; Materials M1 STUDIO 4</td>
</tr>
<tr>
<td>10:30 am – 12:00 pm</td>
<td>124 Aesthetics BALCONY N</td>
</tr>
<tr>
<td>10:30 am – 6:30 pm</td>
<td>301 Specifications M3 STUDIO 7</td>
</tr>
<tr>
<td>11:00 am – 12:30 pm</td>
<td>506-E Shotcreting-Specifications JACKSON</td>
</tr>
<tr>
<td>11:00 am – 1:00 pm</td>
<td>548-B Adhesives in Concrete STUDIO 6</td>
</tr>
<tr>
<td>11:00 am – 2:00 pm</td>
<td>225 Hydraulic Cements REGENT</td>
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<tr>
<td>11:30 am – 1:00 pm</td>
<td>201-D Durability-Oversight Committee IBERVILLE</td>
</tr>
<tr>
<td></td>
<td>304 Measuring/Mix/Trans/Placing STUDIO 8</td>
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<tr>
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<td>346 CIP Pipe BOARDROOM</td>
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<td></td>
<td>544-A FRC-Production &amp; Applications LA GALERIE 3</td>
</tr>
<tr>
<td>11:30 am – 2:00 pm</td>
<td>314 Simplified Design Buildings LA GALERIE 6</td>
</tr>
<tr>
<td></td>
<td>441 Columns STUDIO 2</td>
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<td></td>
<td>447 Finite Element Analysis STUDIO 5</td>
</tr>
</tbody>
</table>
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required  TG = Task Group

Monday, November 9, 2009 (cont.)

11:30 am – 5:00 pm
376-TG  RLG Containment Structures TG M1  BALCONY M

12:00 pm – 2:00 pm
✓ Student Lunch  SALONS D&E
351  Equip Foundations  BALCONY I

1:00 pm – 2:00 pm
130-C  Structures in Service  BALCONY K

1:00 pm – 2:30 pm
C 631  Conc Transportation Const Insp  NAPOLEON
228-TG  Nondestructive Testing TG  BACCHUS
350-H  Env Str-Editorial  LAFAYETTE

1:00 pm – 3:00 pm
C 660  Shotcrete Nozzleman Cert  BALCONY J
440-M  FRP-Repair of Masonry Str  STUDIO 8

1:00 pm – 3:30 pm
375  Design for Wind Loads  BOARDROOM

1:00 pm – 4:00 pm
237  Self-Consolidating Concrete  LA GALERIE 2

1:00 pm – 5:00 pm
362  Parking Structures  STUDIO 6

1:30 pm – 2:00 pm
Germann Instruments Demo  ACADIA/BISSONET

2:00 pm – 3:00 pm
544-E  FRC-Mechanical Properties  LA GALERIE 6

2:00 pm – 3:30 pm
231  Early Age  STUDIO 5
318-S  Spanish Translation  STUDIO 4
318/ASCE7  ACI 318/ASCE7 Coordination  JACKSON
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Monday, November 9, 2009 (cont.)

2:00 pm – 5:00 pm Sessions
Nanotechnology of Concrete: The Next Big Thing is Small, Part 2 SALON A

The Leading Edge of Pervious Concrete, Part 2 SALONS G&H

“What’s New” on Concrete Reinforcing Detailing SALON F

Quality Management Systems for Concrete Construction SALON C

Thomas T.C. Hsu Symposium, Part 2: Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures SALON B

2:00 pm – 5:00 pm
MKTC Marketing BALCONY N
232 Fly Ash & Natural Pozzolans STUDIO 9
307 Chimneys IBERVILLE
318-B Reinforcement & Development M1 REGENT
349-C Nuclear Str-Anchorage STUDIO 2
364 Rehabilitation LA GALERIE 1

2:00 pm – 6:00 pm
ITG-6 High-Strength Steel Reinforcement BALCONY I
369 Seismic Rehab BALCONY K
445 Shear & Torsion BALCONY L

2:00 pm – 6:30 pm
212 Chemical Admixtures STUDIO 10
360 Slabs on Ground LA GALERIES 4&5

2:30 pm
Smart Bridge Tech Inc. Demo ACADIA/BISSONET
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Monday, November 9, 2009 (cont.)

2:30 pm – 5:00 pm
CAC Chapter Activities LAFAYETTE

3:00 pm – 5:00 pm
130 Sustainability LA GALERIE 3
506-F Shotcreting-Underground BACCHUS

3:00 pm – 6:00 pm
440-F FRP-Repair Strengthening LA GALERIE 6

3:30 pm – 5:00 pm
214 Strength Tests BALCONY J
318-L International Liaison STUDIO 5

3:30 pm – 6:00 pm
544-D FRC-Structural Uses STUDIO 4

3:30 pm – 6:30 pm
350-J Env Str-Education BOARDROOM
435 Deflection JACKSON

4:00 pm – 6:00 pm
201-E Salt Weathering/Salt Attack NAPOLEON

4:30 pm – 5:30 pm
236 Material Science LA GALERIE 2

5:00 pm – 6:00 pm
Women in ACI Reception ST. CHARLES SUITE
130-B Production/Transport/Construction STUDIO 6
334 Shells STUDIO 5

5:00 pm – 6:30 pm
E 702 Designing Concrete Structures STUDIO 3
318-TGF TGF-Foundation BACCHUS
555 Recycled STUDIO 2

5:00 pm – 7:00 pm
E 703 Concrete Construction Practices IBERVILLE
446 Fracture Mechanics STUDIO 9
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Monday, November 9, 2009 (cont.)

7:00 pm – 10:00 pm
✓ River Jazz Dinner Cruise

DEPART MAIN LOBBY

7:30 pm – 10:00 pm
123 Forum: Are Concrete Structures Better Suited for Hurricanes and Other Extreme Events?

Tuesday, November 10, 2009

7:00 am – 8:30 am
TTTC TAC Technology Transfer

LA GALERIE 6

7:00 am – 9:00 am
238 Workability of Fresh Concrete

BALCONY N

7:30 am – 9:00 am
130-G Education/Certification

STUDIO 1

8:00 am – 10:00 am
211-C Proportioning-No Slump

BOARDROOM

230 Soil Cement

BACCHUS

444 Experimental Analysis

NAPOLEON

8:00 am – 10:30 am
325-A Pavements-Design

LA GALERIE 1

8:00 am – 11:00 am
332-B&C Residential Concrete Sub B&C

STUDIO 2

332-D&E Residential Concrete Sub D&E

STUDIO 7

8:00 am – 12:00 pm
EAC Educational Activities M2

JACKSON

8:30 am
Burgess Pigment Demo

ACADIA/BISSONET

8:30 am – 10:00 am
C 620 Laboratory Tech Cert

STUDIO 10

523-A Cellular-Autoclaved Aerated

STUDIO 4
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

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Tuesday, November 10, 2009 (cont.)

8:30 am – 10:30 am
IJBRC  International Joints and Bearings Research Council  Studio 6
318  Building Code M1  Studios 8&9
548  Polymers  Balcony K

8:30 am – 11:30 am
201  Durability  La Galeries 4&5
306  Cold Weather  Balcony I
348  Safety  Studio 5
350-G&K  Env Str-Tightness Testing/Haz Mat  Iberville
357  Offshore & Marine  Balcony M
440  Fiber Reinforced Polymer  Salon D
506  Shotcreting  La Galerie 2
522  Pervious Concrete  Balcony L

8:30 am – 12:00 pm
117  Tolerances  La Galerie 3

8:30 am – 12:30 pm
349-A&B  Nuclear Structures-Design & Materials M2  La Galerie 6

8:30 am – 3:30 pm
350-F  Env Str-Seismic  Studio 3

9:00 am – 10:30 am
122  Thermal Properties  Lafayette

9:00 am – 11:30 am
IC  International Committee  Studio 1
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Tuesday, November 10, 2009 (cont.)

9:00 am – 12:00 pm Sessions
Construction Methods for Non-Traditional ICF’s  SALONS G&H

Temperature Effect on Concrete Performance  SALON C

Thomas T.C. Hsu Symposium, Part 3:
Five Decades of Progress in Shear and Torsion  SALON B

Contractors’ Day Session, Part 1  SALON F

Planning For Successful Concrete Projects  SALON A

9:00 am – 12:00 pm
TRRC  TAC Repair & Rehab  BALCONY N
376-TG  RLG Containment Structures TG M2  REGENT

9:00 am – 2:00 pm
ITG-B  Perform Criteria for Conc Matrials  BALCONY J

9:00 am – 2:00 pm
✓ Mississippi River Tour  DEPART MAIN LOBBY

10:00 am – 11:30 am
C 630  Construction Inspector Cert  STUDIO 10

10:00 am – 12:00 pm
211-A  Proportioning-Editorial  BACCHUS
327  RCC Pavements  NAPOLEON

10:00 am – 1:00 pm
371  Elevated Tanks with Concrete Pedestals  BOARDROOM
523  Cellular Concrete  STUDIO 4

10:30 am – 12:00 pm
325-C  Pavements-Prestressed and Precast  LA GALERIE 1
544-F  FRC-Durability  STUDIOS 8&9

10:30 am – 1:00 pm
550  Precast Structures  STUDIO 6
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

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Tuesday, November 10, 2009 (cont.)

11:00 am – 2:00 pm
332-F  Residential Concrete-Slabs  STUDIO 7

11:30 am – 1:00 pm
CRC  Concrete Research Council  LA GALERIE 2
211-E  Proportioning-Evaluation  BALCONY I
213-TG  Lightweight-Editorial TG  LAFAYETTE
223-D  Shr Compensating-Non Reinforced Concrete or Mortar  IBERVILLE

11:30 am – 2:00 pm
515  Protective Systems  BALCONY K
552  Cementitious Grouting  BALCONY L

11:30 am – 3:30 pm
350-A  Env Str-General & Concrete  STUDIO 10

12:00 pm – 2:00 pm
✓ Contractors’ Day Lunch  SALON E

12:30 pm – 2:00 pm
C 640  Craftsman Cert  LA GALERIE 6

1:00 pm – 2:00 pm
223-C  Shr Compensating-Constr  STUDIO 1
325-D  Proportioning for Pavements  LA GALERIE 1

1:00 pm – 3:00 pm
201-C  Durability-Condition Report  BOARDROOM
211-L  Assessing Aggregate Gradation  IBERVILLE
236-D  Material Science-Nanotechnology of Concrete M2  NAPOLEON

1:00 pm – 6:30 pm
318-A  General Concrete Constr  STUDIO 5
318-C  Serviceability/Safety  BALCONY J
318-H  Seismic Provision  LA GALERIE 2
318-R  Code Reorganization  LA GALERIE 4
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

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Tuesday, November 10, 2009 (cont.)

1:30 pm – 3:00 pm
120  History  BALCONY M
213  Lightweight  BALCONY N

1:30 pm – 3:30 pm
130-E  Design/Specifications/Codes/Regulations  STUDIO 6

2:00 pm – 3:30 pm
234  Silica Fume  JACKSON
325-E  Accelerated Paving  JACKSON
544-C  FRC-Testing  LA GALERIE 5

2:00 pm – 4:00 pm
130-D  Rating Systems/Sustainability Tools  SALON D
211-F  Proportioning-Submittals  BACCHUS

2:00 pm – 5:00 pm Sessions
Thomas T.C. Hsu Symposium, Part 4:
Recent Advances in Shear of Concrete Bridges  SALON B

Can This Concrete Self-Consolidate?  SALONS G&H

Open Paper Session  SALON A

Contractors’ Day Session, Part 2  SALON F

2:00 pm – 5:00 pm
CPC  Certification Programs  STUDIO 1
222  Corrosion  LA GALERIE 3
223  Shrinkage Compensating  BALCONY K
229  Controlled Low Strength  STUDIO 4
235  Electronic Data Exchange  LAFAYETTE
310  Decorative Concrete  LA GALERIE 1
332  Residential Concrete  LA GALERIE 6
349  Nuclear Structures  STUDIOS 8&9
563  Specs for Repair of Struct Conc in Buildings  BALCONY L
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required  TG = Task Group

Tuesday, November 10, 2009 (cont.)

2:00 pm – 6:00 pm
233 Slag Cement  STUDIO 7

3:00 pm – 5:00 pm
CC Convention Committee M2  BALCONY I
211-M Proportioning-Aggregate-Packing  IBERVILLE
372 Prestressed/Wire Wrapped  BOARDROOM

3:00 pm – 6:00 pm
131 Building Information Modeling of Concrete  BALCONY N

3:30 pm – 5:00 pm
363-A High-Strength Lightweight Concrete  BALCONY M

3:30 pm – 5:30 pm
325 Pavements  STUDIO 6

3:30 pm – 6:00 pm
544 Fiber Reinforced Concrete  LA GALERIE 5

3:30 pm – 6:30 pm
350-L Env Str-Specification  STUDIO 10

4:30 pm – 6:00 pm
308-213 Guide on Internal Curing  STUDIO 2

5:00 pm – 6:00 pm
Faculty Network Reception  NAPOLEON SUITE

7:00 pm – 10:00 pm
Concrete Mixer  DEPART MAIN LOBBY

Wednesday, November 11, 2009

7:00 am – 8:30 am
ACI/ASCE ACI/ASCE Coordination  STUDIO 7
SYPAC Student and Young Professional Activities Committee  STUDIO 9

7:00 am – 10:00 am
TSC TAC Specifications  STUDIO 10
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Wednesday, November 11, 2009 (cont.)

8:00 am – 10:30 am
308-B  Curing-Specifications  STUDIO 3

8:00 am – 1:30 pm
318-B  Reinforcement & Development M2  STUDIO 4
318-D  Flexure & Axial Loads  BALCONY L
318-E  Shear & Torsion  BALCONY M
318-G  Prestressed Precast  STUDIO 6

8:30 am – 11:30 am
211  Proportioning  SALON D
303  Architectural CIP  STUDIO 7
330-TG  Parking Lots & Paving Sites TG  BALCONY I
363  High-Strength  STUDIO 9
560  Design & Constr ICFs  STUDIO 8

8:30 am – 4:30 pm
359  Nuclear Reactors  BALCONY J

8:30 am – 6:30 pm
350  Environmental Structures  STUDIOS 1&2

9:00 am – 12:00 pm Sessions
Fiber-Reinforced Self-Consolidating Concrete, Part 1  SALONS G&H

How Do You Spice Up a Concrete Bridge to be Earthquake Resistant?  SALON A

Sulfate Influence Properties of Early Age Concrete  SALON C

Materials Science Modeling as a Solution to Concrete Problems, Part 1  SALON F

Current Trends in Structural Health Monitoring Systems of Concrete Structure, Part 1  SALON B

9:00 am – 12:00 pm
ACIFdn  ACI Foundation  STUDIO 5
Daily Program

All schedule and location changes will be posted daily in the Acadia/Bissonet.

✓ Separate fee required

TG = Task Group

Wednesday, November 11, 2009 (cont.)

9:00 am – 1:00 pm
✓ Louisiana Swamp Tour

9:00 am – 5:00 pm

376-TG RLG Containment Structures TG M3 BALCONY K

10:00 am – 12:30 pm
C601-B Concrete Quality Technical Mgr STUDIO 10

10:30 am – 1:00 pm
308-A Curing-Guide STUDIO 3

12:00 pm – 2:00 pm
✓ International Lunch SALON E

1:00 pm – 4:00 pm
330 Parking Lots & Site Paving BALCONY I

2:00 pm – 5:00 pm Sessions
Materials Science Modeling as a Solution to Concrete Problems, Part 2 SALON F
Current Trends in Structural Health Monitoring Systems of Concrete Structure, Part 2 SALON B
Fiber-Reinforced Self-Consolidating Concrete, Part 2 SALONS G&H
Corrosion of Post-Tensioned Systems SALON A

2:00 pm – 5:00 pm
308 Curing STUDIO 7

2:30 pm – 6:30 pm
318 Building Code M2 STUDIOS 8&9

Thursday, November 12, 2009

8:00 am – 5:00 pm
✓ Troubleshooting Concrete Forming and Shoring Seminar LA GALERIE 6

10:00 am – 5:00 pm
BOD Board of Direction LA GALERIES 4&5
<table>
<thead>
<tr>
<th>Code</th>
<th>Committee</th>
<th>Day</th>
<th>Time</th>
<th>Room Name</th>
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<tbody>
<tr>
<td>ACI 318/ASCE7</td>
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<td>ACIFdn</td>
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<td>9:00 am-12:00 pm</td>
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<td>BAC-SD</td>
<td>Board Advisory Committee on Sustainable Devlp</td>
<td>Sun</td>
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<td>C 601-B</td>
<td>Concrete Quality Technical Mgr</td>
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<td>C 610</td>
<td>Field Technician Cert</td>
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<td>C 620</td>
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<td>Construction Inspector Cert</td>
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<td>C 650</td>
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<td>Shotcrete Nozzleman Cert</td>
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<td>Collegiate Concrete Council</td>
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<td>4:00 pm-5:00 pm</td>
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<td>CPC</td>
<td>Certification Programs</td>
<td>Tue</td>
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<td>CRC</td>
<td>Concrete Research Council</td>
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<td>11:30 am-1:00 pm</td>
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<td>E 601</td>
<td>Seminar Oversight Committee</td>
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<td>E 701</td>
<td>Materials for Concrete Construction</td>
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<td>E 702</td>
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<td>E 703</td>
<td>Concrete Construction Practices</td>
<td>Mon</td>
<td>5:00 pm-7:00 pm</td>
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## Numerical Committee Meeting Listing

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<td>E 706</td>
<td>Repair Application Procedures</td>
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<td>Student Activities</td>
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<td>E 802</td>
<td>Teaching Methods and Educational Materials</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
<td>STUDIO 4</td>
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<td>E 804</td>
<td>Educational Awards Nomination Committee</td>
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<td>HTC</td>
<td>Hot Topic</td>
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<td>IC-Conf</td>
<td>International Conferences</td>
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<td>IC-Part</td>
<td>International Partnerships &amp; Publications</td>
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<td>10:00 am-11:30 am</td>
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<td>IJBC</td>
<td>Intl Joints &amp; Bearings Research</td>
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<td>ITG-6</td>
<td>High-Strength Steel Reinforcement</td>
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<td>ITG-8</td>
<td>Perform Criteria for Conc Matrls</td>
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<td>Membership</td>
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<td>Marketing</td>
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<td>Responsibility</td>
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<td>SYPAC</td>
<td>Student and Young Professional Activities</td>
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<td>7:00 am-8:30 am</td>
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<td>TAC</td>
<td>Technical Activities M1</td>
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<td>6:30 pm-9:00 pm</td>
<td>SALON B</td>
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<td>Technical Activities M2</td>
<td>Sat</td>
<td>7:00 am-6:00 pm</td>
<td>BALCONY K</td>
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<tr>
<td>TAC</td>
<td>Technical Activities M3</td>
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<td>7:00 am-2:00 pm</td>
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<td>TAC-RG1</td>
<td>TAC Review Group 1</td>
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<td>TAC-RG2</td>
<td>TAC Review Group 2</td>
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<td>TAC-RG3</td>
<td>TAC Review Group 3</td>
<td>Sun</td>
<td>8:00 am-11:00 am</td>
<td>REGENT</td>
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# Numerical Committee

## Meeting Listing

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<thead>
<tr>
<th>Code</th>
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<th>Time</th>
<th>Room Name</th>
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<tr>
<td>TAC/ICRI</td>
<td>TAC &amp; International Concrete Repair Institute</td>
<td>Sun</td>
<td>2:00 pm-3:00 pm</td>
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<td>TAC/SDC</td>
<td>TAC &amp; Strategic Development Council</td>
<td>Sun</td>
<td>7:00 am-8:00 am</td>
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<td>TRRC</td>
<td>TAC Repair &amp; Rehab</td>
<td>Tue</td>
<td>9:00 am-12:00 pm</td>
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<td>TSC</td>
<td>TAC Specifications</td>
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<td>TAC Technology Transfer</td>
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<td>117</td>
<td>Tolerances</td>
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<td>Computers</td>
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<td>History</td>
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<td>Quality Assurance</td>
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<td>122</td>
<td>Thermal Properties</td>
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<td>Research</td>
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<td>124</td>
<td>Aesthetics</td>
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<td>130</td>
<td>Sustainability</td>
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<tr>
<td>130-A</td>
<td>Materials</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
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<tr>
<td>130-B</td>
<td>Production/Transport/Construction</td>
<td>Mon</td>
<td>5:00 pm-6:00 pm</td>
<td>STUDIO 6</td>
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<tr>
<td>130-C</td>
<td>Structures in Service</td>
<td>Mon</td>
<td>1:00 pm-2:00 pm</td>
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<td>130-D</td>
<td>Rating Systems/Sustainability Tools</td>
<td>Tue</td>
<td>2:00 pm-4:00 pm</td>
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<td>Design/Specifications/Codes/Regulations</td>
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<td>Social Issues</td>
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<td>Education/Certification</td>
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<td>BIM</td>
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<td>Durability-Condition Report</td>
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<td>Durability Oversight Committee</td>
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<td>Salt Weathering/Salt Attack</td>
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<td>Mass Concrete</td>
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<td>209</td>
<td>Creep &amp; Shrinkage</td>
<td>Mon</td>
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<td>Statistical Procedures</td>
<td>Sun</td>
<td>2:00 pm-3:30 pm</td>
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## Numerical Committee
### Meeting Listing

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<th>Code</th>
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<th>Time</th>
<th>Room Name</th>
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<tr>
<td>211</td>
<td>Proportioning</td>
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<td>211-A</td>
<td>Proportioning-Editorial</td>
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<td>10:00 am-12:00 pm</td>
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<td>Proportioning-Evaluation</td>
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<td>211-F</td>
<td>Proportioning-Submittals</td>
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<td>Assessing Aggregate Gradation</td>
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<td>1:00 pm-3:00 pm</td>
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<td>211-M</td>
<td>Proportioning-Aggregate-Packing</td>
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<td>Chemical Admixtures</td>
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<td>Lightweight</td>
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<td>Lightweight-Editorial TG</td>
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<td>Strength Tests</td>
<td>Mon</td>
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<td>Fatigue</td>
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<td>Fire Resistance</td>
<td>Mon</td>
<td>10:00 am-1:00 pm</td>
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<td>Shrinkage Compensating</td>
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<td>223-C</td>
<td>Shr Compensating-Constr</td>
<td>Tue</td>
<td>1:00 pm-2:00 pm</td>
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<td>Shr Compensating-Non-Reinforced Concrete or Mortar</td>
<td>Tue</td>
<td>11:30 am-1:00 pm</td>
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<td>Hydraulic Cements</td>
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<td>Nondestructive Testing</td>
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<td>Controlled Low Strength</td>
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<td>232</td>
<td>Fly Ash &amp; Natural Pozzolans</td>
<td>Mon</td>
<td>2:00 pm-5:00 pm</td>
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<td>232-A</td>
<td>Fly Ash-Use of Nat Pozzolans</td>
<td>Mon</td>
<td>10:00 am-1:00 pm</td>
<td>BALCONY K</td>
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<tr>
<td>233</td>
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<tr>
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<td>LAFAYETTE</td>
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<td>236</td>
<td>Material Science</td>
<td>Mon</td>
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<td>236-B</td>
<td>Material Science-Transport Mechanisms</td>
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<td>236-D</td>
<td>Material Science-Nanotechnology of Concrete M1</td>
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<td>237</td>
<td>Self-Consolidating Concrete</td>
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<td>238</td>
<td>Workability of Fresh Concrete</td>
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<td>Measuring/Mix/Trans/Placing</td>
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<td>305</td>
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<td>307</td>
<td>Chimneys</td>
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<td>308</td>
<td>Curing</td>
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## Numerical Committee Meeting Listing

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<td>Guide on Internal Curing</td>
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<td>Inspection</td>
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<td>314</td>
<td>Simplified Design Buildings</td>
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<td>Detailing</td>
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<td>349</td>
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<td>STUDIOS 8&amp;9</td>
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## Numerical Committee Meeting Listing

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<td>Env Str-Seismic</td>
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<td>Offshore &amp; Marine</td>
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<td>Nuclear Reactors</td>
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<td>Slabs on Ground</td>
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<td>Parking Structures</td>
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<td>Parking Str-Standard</td>
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<td>Mon</td>
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<td>LA GALERIE 1</td>
</tr>
<tr>
<td>365</td>
<td>Service Life</td>
<td>Mon</td>
<td>9:00 am-11:00 am</td>
<td>STUDIO 6</td>
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<tr>
<td>369</td>
<td>Seismic Rehab</td>
<td>Mon</td>
<td>2:00 pm-6:00 pm</td>
<td>BALCONY K</td>
</tr>
<tr>
<td>370</td>
<td>Dynamic &amp; Vibratory Effects</td>
<td>Sun</td>
<td>1:30 pm-4:30 pm</td>
<td>STUDIO 8</td>
</tr>
<tr>
<td>371</td>
<td>Elevated Tanks with Concrete Pedestals</td>
<td>Tue</td>
<td>10:00 am-1:00 pm</td>
<td>BOARDROOM</td>
</tr>
<tr>
<td>372</td>
<td>Prestressed/Wire Wrapped</td>
<td>Tue</td>
<td>3:00 pm-5:00 pm</td>
<td>BOARDROOM</td>
</tr>
<tr>
<td>373</td>
<td>Prestressed/ Tendons</td>
<td>Sun</td>
<td>8:30 am-10:00 am</td>
<td>BALCONY K</td>
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<tr>
<td>374</td>
<td>Seismic Design</td>
<td>Mon</td>
<td>8:30 am-12:30 pm</td>
<td>LA GALERIE 1</td>
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# Numerical Committee Meeting Listing

<table>
<thead>
<tr>
<th>Code</th>
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<th>Day</th>
<th>Time</th>
<th>Room Name</th>
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<tbody>
<tr>
<td>374-TG2</td>
<td>Protocol For Testing RC Structural Elements</td>
<td>Sun</td>
<td>11:30 am-1:00 pm</td>
<td>STUDIO 10</td>
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<tr>
<td>375</td>
<td>Design for Wind Loads</td>
<td>Mon</td>
<td>1:00 pm-3:30 pm</td>
<td>BOARDROOM</td>
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<tr>
<td>376</td>
<td>RLG Containment Structures M1</td>
<td>Sat</td>
<td>3:00 pm-5:00 pm</td>
<td>SALON B</td>
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<tr>
<td>376</td>
<td>RLG Containment Structures M2</td>
<td>Sun</td>
<td>9:00 am-12:00 pm</td>
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<td>376-TG</td>
<td>RLG Containment Structures TG M1</td>
<td>Mon</td>
<td>11:30 am-5:00 pm</td>
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<tr>
<td>376-TG</td>
<td>RLG Containment Structures TG M2</td>
<td>Tue</td>
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<td>408</td>
<td>Development and Splicing</td>
<td>Sun</td>
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<tr>
<td>421</td>
<td>Reinf Slabs</td>
<td>Sun</td>
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<td>423</td>
<td>Prestressed</td>
<td>Mon</td>
<td>9:00 am-1:00 pm</td>
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<tr>
<td>423-445</td>
<td>Adhoc Grp on Shear in Prestress Conc</td>
<td>Sun</td>
<td>3:00 pm-5:00 pm</td>
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<td>435</td>
<td>Deflection</td>
<td>Mon</td>
<td>3:30 pm-6:30 pm</td>
<td>JACKSON</td>
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<td>437</td>
<td>Strength Evaluation</td>
<td>Mon</td>
<td>8:30 am-11:30 am</td>
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<td>439</td>
<td>Steel Reinforcement</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
<td>NAPOLEON</td>
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<tr>
<td>439-A</td>
<td>Steel Reinf-Wire</td>
<td>Sun</td>
<td>12:30 pm-2:00 pm</td>
<td>BALCONY M</td>
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<tr>
<td>440</td>
<td>Fiber Reinforced Polymer</td>
<td>Tue</td>
<td>8:30 am-11:30 am</td>
<td>SALON D</td>
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<tr>
<td>440-D</td>
<td>FRP-Research</td>
<td>Sun</td>
<td>1:30 pm-3:00 pm</td>
<td>LA GALERIE 1</td>
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<tr>
<td>440-F</td>
<td>FRP-Repair Strengthening</td>
<td>Mon</td>
<td>3:00 pm-6:00 pm</td>
<td>LA GALERIE 6</td>
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<tr>
<td>440-G</td>
<td>FRP-Student</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
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<td>440-H</td>
<td>FRP-Reinforced-Concrete</td>
<td>Sun</td>
<td>8:30 am-11:30 am</td>
<td>STUDIO 2</td>
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<tr>
<td>440-I</td>
<td>FRP-Prestressed Concrete</td>
<td>Mon</td>
<td>10:00 am-11:30 am</td>
<td>BALCONY M</td>
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<tr>
<td>440-L</td>
<td>FRP-Durability</td>
<td>Sun</td>
<td>3:00 pm-5:00 pm</td>
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<td>440-M</td>
<td>FRP-Repair of Masonry Str</td>
<td>Mon</td>
<td>1:00 pm-3:00 pm</td>
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<td>441</td>
<td>Columns</td>
<td>Mon</td>
<td>11:30 am-2:00 pm</td>
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<td>441-E</td>
<td>Column Multi-Spiral Reinf</td>
<td>Sun</td>
<td>3:00 pm-4:30 pm</td>
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<td>444</td>
<td>Experimental Analysis</td>
<td>Tue</td>
<td>8:00 am-10:00 am</td>
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<tr>
<td>445</td>
<td>Shear &amp; Torsion</td>
<td>Mon</td>
<td>2:00 pm-6:00 pm</td>
<td>BALCONY L</td>
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</table>
# Numerical Committee Meeting Listing

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>445-A</td>
<td>Shear &amp; Torsn-Strut &amp; Tie</td>
<td>Sun</td>
<td>10:30 am-1:30 pm</td>
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<tr>
<td>445-B</td>
<td>Shear &amp; Torsn-Seismic Shear</td>
<td>Sun</td>
<td>8:00 am-11:00 am</td>
<td>LAFAYETTE</td>
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<tr>
<td>445-C</td>
<td>Shear &amp; Torsn-Punching Shear</td>
<td>Sun</td>
<td>11:00 pm-3:00 pm</td>
<td>STUDIO 3</td>
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<tr>
<td>445-D</td>
<td>Shear &amp; Torsn-Database</td>
<td>Mon</td>
<td>10:00 am-12:00 pm</td>
<td>BACCHUS</td>
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<td>445-E</td>
<td>Shear &amp; Torsn-SOA Torsion</td>
<td>Sun</td>
<td>12:30 pm-2:00 pm</td>
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<tr>
<td>446</td>
<td>Fracture Mechanics</td>
<td>Mon</td>
<td>5:00 pm-7:00 pm</td>
<td>STUDIO 9</td>
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<td>447</td>
<td>Finite Element Analysis</td>
<td>Mon</td>
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<td>506</td>
<td>Shotcreting</td>
<td>Tue</td>
<td>8:30 am-11:30 am</td>
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<td>506-A</td>
<td>Shotcreting-Evaluation</td>
<td>Sun</td>
<td>9:30 am-11:00 am</td>
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<td>506-B</td>
<td>Shotcreting-Fiber Reinforced</td>
<td>Sun</td>
<td>1:30 pm-3:00 pm</td>
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<tr>
<td>506-C</td>
<td>Shotcreting-Guide</td>
<td>Mon</td>
<td>8:30 am-11:00 am</td>
<td>JACKSON</td>
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<td>506-E</td>
<td>Shotcreting-Specifications</td>
<td>Mon</td>
<td>11:00 am-12:30 pm</td>
<td>JACKSON</td>
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<tr>
<td>506-F</td>
<td>Shotcreting-Underground</td>
<td>Mon</td>
<td>3:00 pm-5:00 pm</td>
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<td>506-G</td>
<td>Qualifications for Projects</td>
<td>Sun</td>
<td>11:00 am-12:30 pm</td>
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<td>515</td>
<td>Protective Systems</td>
<td>Tue</td>
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<td>522</td>
<td>Pervious Concrete</td>
<td>Tue</td>
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<tr>
<td>523</td>
<td>Cellular Concrete</td>
<td>Tue</td>
<td>10:00 am-1:00 pm</td>
<td>STUDIO 4</td>
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<tr>
<td>523-A</td>
<td>Cellular-Autoclaved Aerated</td>
<td>Tue</td>
<td>8:30 am-10:00 am</td>
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<td>524</td>
<td>Plastering</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
<td>STUDIO 10</td>
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<td>543</td>
<td>Piles</td>
<td>Mon</td>
<td>8:30 am-11:30 am</td>
<td>BOARDROOM</td>
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<tr>
<td>544</td>
<td>Fiber Reinforced Concrete</td>
<td>Tue</td>
<td>3:30 pm-6:00 pm</td>
<td>LA GALERIE 5</td>
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<tr>
<td>544-A</td>
<td>FRC-Production &amp; Applications</td>
<td>Mon</td>
<td>11:30 am-1:00 pm</td>
<td>LA GALERIE 3</td>
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<tr>
<td>544-B</td>
<td>FRC-Education</td>
<td>Mon</td>
<td>8:30 am-10:00 am</td>
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<tr>
<td>544-C</td>
<td>FRC-Testing</td>
<td>Tue</td>
<td>2:00 pm-3:30 pm</td>
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<td>544-D</td>
<td>FRC-Structural Uses</td>
<td>Mon</td>
<td>3:30 pm-6:00 pm</td>
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<tr>
<td>544-E</td>
<td>FRC-Mechanical Properties</td>
<td>Mon</td>
<td>2:00 pm-3:00 pm</td>
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<tr>
<td>544-F</td>
<td>FRC-Durability</td>
<td>Tue</td>
<td>10:30 am-12:00 pm</td>
<td>STUDIOS 8&amp;9</td>
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<td>546</td>
<td>Repair</td>
<td>Mon</td>
<td>8:30 am-11:30 am</td>
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<tr>
<td>546-A</td>
<td>Repair-Underwater</td>
<td>Sun</td>
<td>8:30 am-9:30 am</td>
<td>BALCONY J</td>
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</table>
## Numerical Committee Meeting Listing

<table>
<thead>
<tr>
<th>Code</th>
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<th>Time</th>
<th>Room Name</th>
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<tbody>
<tr>
<td>546-B</td>
<td>Repair-Material Selection Guide</td>
<td>Sun</td>
<td>9:30 am-10:30 am</td>
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<tr>
<td>546-C</td>
<td>Repair-Guide</td>
<td>Sun</td>
<td>10:30 am-11:30 am</td>
<td>BALCONY J</td>
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<td>548</td>
<td>Polymers</td>
<td>Tue</td>
<td>8:30 am-10:30 am</td>
<td>BALCONY K</td>
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<tr>
<td>548-A</td>
<td>Polymers-Overlays</td>
<td>Mon</td>
<td>8:30 am-11:00 am</td>
<td>REGENT</td>
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<td>548-B</td>
<td>Adhesives in Concrete</td>
<td>Mon</td>
<td>11:00 am-1:00 pm</td>
<td>STUDIO 6</td>
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<tr>
<td>548-C</td>
<td>Structural Polymer Design</td>
<td>Sun</td>
<td>11:30 am-1:00 pm</td>
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<tr>
<td>548-TG</td>
<td>Polymers-TG</td>
<td>Sun</td>
<td>2:00 pm-3:00 pm</td>
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<td>549</td>
<td>Thin Reinforced</td>
<td>Sun</td>
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<td>Thin Reinforced-Premix GFRC</td>
<td>Sun</td>
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<td>550</td>
<td>Precast Structures</td>
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<td>551</td>
<td>Tilt-up</td>
<td>Sun</td>
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<td>552</td>
<td>Cementitious Grouting</td>
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<td>Recycled</td>
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<tr>
<td>560</td>
<td>Design &amp; Constr ICFs</td>
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<tr>
<td>562</td>
<td>Eval, Repair &amp; Rehab</td>
<td>Sun</td>
<td>11:30 am-5:00 pm</td>
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<td>562-A</td>
<td>Eval, Repair &amp; Rehab-Life Safety</td>
<td>Sat</td>
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<td>SALON B</td>
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<tr>
<td>562-B</td>
<td>Eval, Repair &amp; Rehab-Loads</td>
<td>Sun</td>
<td>8:00 am-9:00 am</td>
<td>STUDIO 4</td>
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<tr>
<td>562-C</td>
<td>Eval, Repair &amp; Rehab-Structural Analysis</td>
<td>Sat</td>
<td>5:00 pm-9:00 pm</td>
<td>SALON C</td>
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<tr>
<td>562-D</td>
<td>Eval, Repair &amp; Rehab-Structural Repair Design</td>
<td>Sat</td>
<td>1:00 pm-3:00 pm</td>
<td>SALON B</td>
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<tr>
<td>562-E</td>
<td>Eval, Repair &amp; Rehab-Durability Quality Assurance</td>
<td>Sat</td>
<td>5:00 pm-9:00 pm</td>
<td>BALCONY J</td>
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<tr>
<td>562-F</td>
<td>Eval, Repair &amp; Rehab-General</td>
<td>Sat</td>
<td>1:00 pm-5:00 pm</td>
<td>BALCONY J</td>
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<tr>
<td>563</td>
<td>Specs for Repair of Struct Conc in Bldgs</td>
<td>Tue</td>
<td>2:00 pm-5:00 pm</td>
<td>BALCONY L</td>
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</tbody>
</table>
Committee 124, Aesthetics, has developed a compendium of notable concrete projects in New Orleans and the surrounding area. Sites include several churches, Harrah’s Hotel, the Inner Harbor Navigation Canal, the St. Bernard Parish Cultural Arts & Community Center, Southern Yacht Club, and more. For a complete listing and map, visit www.aciconvention.org.
Saturday, November 7, 2009
1:00 pm – 5:00 pm

Concrete Sustainability Forum  
SALON D
Sponsored by ACI Committees ISO-TC71, ACI Committee 130, Sustainability, and the Board Advisory Committee on Sustainable Development

Session Co-Moderators:
- Koji Sakai
  Professor
  Kagawa University
  Takamatsu, Japan
- Julie K. Buffenbarger
  Engineering & Architectural Specialist
  Lafarge
  Medina, OH
- Richard D. Stehly
  Principal
  American Engineering & Testing
  Saint Paul, MN

In recent years, sustainability and green design/construction have received much deserved attention. Through its strategic plan, ACI announced its commitment to expand the understanding of sustainability among the membership, expand resources to support sustainability issues, and increase the content on sustainability in ACI documents and products. This workshop will provide you with additional knowledge and resources to identify opportunities in your ACI committee work, in your work with other organizations, and in your career to make necessary changes to design, construct, and specify buildings and infrastructure in more sustainable ways. Additionally, this workshop will assist the International Organization for Standardization (ISO) TC71/SC8 in gathering information for a new standard being developed on environmental management for concrete and concrete structures.

Forum Kickoff
Social Values of Concrete Structures 1:10 pm
Aris Papadopoulos, CEO & President, Titan America, Norfolk, VA
Saturday, November 7, 2009
1:00 pm – 5:00 pm

Concrete Sustainability Forum (cont.)  SALON D

**Sustainability Activities in Concrete-Related Organizations**
The Precast/Prestressed Concrete Initiative of Sustainable Design
Emily B. Lorenz, Director of Sustainability, Precast/Prestressed Concrete Institute, Chicago, IL

New Green Pavement Rating Systems  1:40 pm
Peter C. Taylor, Engineer, CPTech National Center, Ames, IA

PCA High-Performance Building Code  1:55 pm
Julie Buffenbarger, Engineering and Architectural Specialist, Lafarge, Medina, OH

NRMCA Footprint Reduction Strategy  2:10 pm
Lionel A. Lemay, Senior Director of Applied Engineering, National Ready Mixed Concrete Association, Libertyville, IL

Environmental Design and Applications of Concrete Structures; from JSCE and fib Activities
Kenji Kawai, Associate Professor, Hiroshima University, Hiroshima, Japan

Cement Sustainability Initiative: Recycling and More  2:40 pm
Harve Stoeck, Vice President of Environment and Public Affairs, Lafarge, Geneva, Switzerland

Sustainability and the Built Environment—A Closer Look from the European Perspective
Peter Richner, Head of the Department of Civil and Environmental Engineering, Empa—Material Science and Technology, Dübendorf, Switzerland

Break  3:10 pm

Advanced Sustainability Technologies
Environmental Advantage and Applications of Applying Ultra High-Strength Fiber-Reinforced Concrete in Japan
Hiroyuki Musha, Manager of Civil Engineering Technology Development Department, Taisei Corporation, Yokohama, Japan
Saturday, November 7, 2009
1:00 pm – 5:00 pm

Concrete Sustainability Forum (cont.) SALON D

An Advanced Concrete Recycling Plant, Completely Recyclable Concrete Products, and the Progress of Recycling Concrete in Japan
Fuminori Tomosawa, Professor, Nihon University, Tokyo, Japan

Sustainability ISO Standardization for the Concrete Sector
International Standard for Environmentally Conscious Specification of Concrete Materials, Production, and Structures
Takafumi Noguchi, Associate Professor, the University of Tokyo, Tokyo, Japan

Standardization for Sustainability in ISO/TC71/SC8
Koji Sakai, Professor, Kagawa University, Takamatsu, Japan

Forum Discussion

Saturday, November 7, 2009
1:00 pm – 5:00 pm
Sunday, November 8, 2009
8:00 am – 9:00 am

Convention #1 Breakfast
LA GALERIE 3
Sponsored by the ACI Convention Committee

Session Moderator: Kari L. 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 to orient you to the week ahead. Attendees will have the opportunity to meet other convention attendees and learn about what an ACI Convention has to offer.
Sunday, November 8, 2009
12:00 pm – 5:00 pm

Student Concrete Cube Competition
Sponsored by the ACI Louisiana Chapter and ACI Committee E801,
Student Activities

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

Come watch the future of ACI compete against each other! The objective of the cube competition is to produce a concrete cube that achieves, as closely as possible, a target design strength and a target mass as specified in the rules. Don’t miss this event! Stop by and cheer on your favorite team! We will also have presentations from the first- and second-place winners of the Student Concrete Projects Competition.

Second Place
Marine Biofouling and Its implications on the Durability of Concrete Sea Defences
Peter Hughes, University of Central Lancashire, Preston, Lancashire, UK

First Place
Experiment Work and an Analytical Investigation on Shear Strength of High-Performance Concrete Beams with Web Reinforcement
Jignesh I. Patel, Nirma University, Ahmedabad, Gujarat, India
Sunday, November 8, 2009
2:00 pm – 5:00 pm

Application of Fracture Mechanics to Concrete Structures and Composites
SALON C
Sponsored by ACI Committee 446, Fracture Mechanics

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

Woody Ju
Professor
University of California at Los Angeles
Los Angeles, CA

In recent years, substantial progress has been made towards developing applications of fracture mechanics for predicting performance and failure in concrete structures and composites. A technical session and a special publication are planned on this topic to highlight some of the significant advancements.

A Fracture Based Method to Determine the Flexural Capacity of Concrete Slabs
2:00 pm
Cristian Gaedicke, Assistant Professor, Texas State University, San Marcos, TX; and Jeffery Roesler, University of Illinois at Urbana Champaign

Applications of Moment Curvature Analysis and Fracture Mechanics to Flexural Steel Fiber Reinforced Concrete Sections
2:25 pm
Fariborz M. Tehrani, Lecturer, University of California at Los Angeles, Los Angeles, CA; and Woody Ju, University of California at Los Angeles

Fiber Pullout Modeling and Fracture Toughness of Steel Fiber Reinforced Cementitious Composites
2:50 pm
Woody Ju, Professor, University of California at Los Angeles, Los Angeles, CA; and P. Suwatnodom, University of California at Los Angeles

Size-Effect Methods for the Identification of Cohesive Crack Model Parameters
3:15 pm
Gianluca Cusatis, Assistant Professor, Rensselaer Polytechnic Institute, Troy, NY; and Edward Schauffert, Rensselaer Polytechnic Institute
Sunday, November 8, 2009
2:00 pm – 5:00 pm

Application of Fracture Mechanics to Concrete Structures and Composites (cont.)

Application of Fracture Mechanics to Debonding of FRP from Concrete Beams 3:40 pm
Christian Carloni, Professor, University of Hartford, Hartford, CT; and
Kolluru V. Subramaniam, City College-City University of New York

Size Effect in Shear Failure of Beams 4:05 pm
G. Appa Rao, Associate Professor, Indian Institute of Technology, Madras, Chennai, India
Sunday, November 8, 2009
2:00 pm – 5:00 pm

Construction, Formwork, Scheduling, Tolerances and Communication
SALON F
Sponsored by ACI Committee 347, Formwork

Session Moderator: Pericles C. Stivaros
Principal, Feld, Kaminetzky and Cohen
Jericho, NY

This session will be of interest to contractors, formwork engineers, formwork manufacturers and others interested in concrete construction practices. Attendees will find out about new, innovative forming systems, successful and not so successful, design and construction operations, and safe and less expensive construction practices.

Case Studies: Effects of High Construction Loads on Concrete Slab Deflections Need for Design and Construction Coordination
Pericles C. Stivaros, Principal, Feld, Kaminetzky and Cohen, Jericho, NY

Advances in the Use of Column Hung Shoring Systems
John A. Brain, Eastern District Director of Engineering, Harsco Infrastructure, Paramus, NJ

Insulated Forms; Why and Why Now?
Pierre-Claude Aitcin, Professor, University of Sherbrooke, Sherbrooke, QC, Canada

Fabric Formed Concrete
Robert Schmitz, Principal, RP Schmitz Consulting Engineers, Brookfield, WI

Intelligent Formwork System (Reshore Free, Bi-Directional, Self Leveling Slab Form Systems)
George Charitou, Chief Engineer, EllisDon Construction, Mississauga, ON, Canada; and Lloyd J. Keller, EllisDon Construction

Overhang Forming Design Calculations
J. Leroy Caldwell, Senior Engineer, CMC Construction Services, Dallas, TX

Technical Committees Interface with Specification
Committee 301: Case Study to Define ‘Smooth-Form and Rough-Form Finish’
James N. Cornell II, Senior Project Manager, The Beck Group, Dallas, TX
Sunday, November 8, 2009
2:00 pm – 5:00 pm

Emerging Technologies in Civil Infrastructure Application  SALONS G&H
Sponsored by ACI Committee TTTC, TAC Technology Transfer

Session Co-Moderators:  Joseph Sanders
Vice President
Charles Pankow Builders Ltd
Pasadena, CA

Claude Bédard
Vice President
Euclid Admixtures Canada
St. Hubert, QC, Canada

Collaborating to solve the concrete industry’s technology problems and advancing the adoption of industry critical technologies is the joint goal of the Strategic Development Council and the Technology Transfer Committee. This session highlights a variety of current emerging industry technologies.

Multi-Spiral Shear Reinforcement for Rectangular Members  2:00 pm
Tony C. Liu, Senior Research Fellow, National Taiwan University, Taipei, Taiwan; and Samuel Yin and Raymond Wang, Ruentex Engineering and Construction Co., Ltd.

Precast Segmental Duct Couplers  2:30 pm
Larry B. Krauser, Vice President of Business Development, General Technologies, Inc., Stafford, TX

Advances in Monitoring and Estimating Form Pressure of SCC  3:00 pm
Kamal H. Khayat, Professor, University of Sherbrooke, Sherbrooke, QC, Canada

Building Information Modeling for Concrete  3:30 pm
Peter Carrato, Principal Civil Engineer and Fellow, Bechtel Corporation, Frederick, MD

Performance Criteria for Concrete Materials: Update on ITG-8  4:00 pm
Kenneth B. Rear, Vice President of Research & Support, KBR Resources Inc., Holmes Beach, FL

Testing Protocol for Repair System Evaluation  4:30 pm
Peter H. Emmons, President, Structural Group Inc., Hanover, MD
Sunday, November 8, 2009
2:00 pm – 5:00 pm

How I Spiced Up My Concrete
SALON B
Sponsored by the ACI Louisiana Chapter

Session Co-Moderators:
Subhash Kulkarni
President
Kulkarni Consultants
Metairie, LA

      Om P. Dixit
      Engineering Director
      C.H. Fenstermaker and Associates
      New Orleans, LA

Any design of a concrete mix for the modern specifications for concrete on projects is very similar to cooking a gourmet meal with spices. To satisfy the taste of every patron requires a unique blend of various spices. Similarly, in order to meet the specifications of HPC (High Performance Concrete) a unique blend of admixtures and other ingredients are required. This session will address some of these issues and the solutions used on various local and other projects.

How Do You Cook Up HPC? 2:00 pm
Darrell F. Elliot, Technical Service Manager, Buzzi Unicem USA, Laplace, LA

Prescription for Spicy HPC in Louisiana Projects 2:30 pm
Paul B. Fossier, Assistant State Bridge Design Engineer, Louisiana Department of Transportation and Development, Baton Rouge, LA

Research for Spicy HPC in Louisiana 3:00 pm
John J. Roller, Principal Structural Engineer, CTL Group, Skokie, IL

Variety of Spices for Concrete 3:30 pm
Charles K. Nmai, Chief Engineer, BASF Construction Chemicals, Twinsburg, OH

Towards Spicy Concrete 4:00 pm
Kevin MacDonald, Vice President of Engineering Services, Cemstone Products Company, Mendota Heights, MN

Spicing up Concrete for Extreme Requirements 4:30 pm
James Warner, Consulting Engineer, James Warner Consulting Engineers, Mariposa, CA
Sunday, November 8, 2009
5:15 pm – 6:30 pm

Opening Session and Hardy Cross Lecture Series

The ACI Fall 2009 Convention officially begins during the Opening Session and Hardy Cross Lecture Series. Featured speaker Shunsuke Otani, Professor Emeritus at the University of Tokyo, will discuss The Role of Analysis in Earthquake-Resistant Design: A Retrospective.

Engineering seismology was developed in the late nineteenth century, and modern seismographs were developed to record the trace of earthquake motion. With the knowledge on earthquake acceleration signals, equivalent static forces for earthquake inertia effects on buildings were introduced in building codes; first in Italy after the 1908 Messina Earthquake and then in Japan after the 1923 Kanto (Tokyo) Earthquake.

Classical Castigliano’s theorems were used in structural analysis to determine stresses in a building. The slope deflection method was published by W.M. Wilson in 1918 to write a set of linear equations, and an iterative solution method of the linear equations, commonly known as “the moment distribution method” that was developed by Hardy Cross in 1930 for moment-resisting frames under vertical loads. These methods were not practical for routine earthquake-resistant design.

The development of earthquake-resistant design in the age of Hardy Cross will be reviewed in this lecture series.
Sunday, November 8, 2009
6:30 pm – 7:30 pm

Opening Reception
ACADIA/BISSONET
Sponsored by the ACI Louisiana Chapter

After the Opening Session, make your way to the exhibit hall and 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 definitely a networking opportunity you won’t want to miss!
Sunday, November 8, 2009
7:30 pm – 9:30 pm

✓ Professor Thomas T.C. Hsu Honorary Dinner  LA GALERIE 2
$80 U.S. per person
Coordinated by ACI Committee 445, Shear and Torsion

Join other ACI attendees in celebrating Thomas Hsu's extraordinary achievements and life-long career in reinforced concrete. Over the past 20 years, Professor Thomas Hsu has been a pioneer in reinforced concrete under variable conditions. Creator of the Universal Element Tester, this machine is the only machine in the world able to test reinforced concrete slabs under seismic conditions. Dr. Hsu has published comprehensively on micro-cracking, torsion, shear, and design of concrete structures under static, dynamic and earthquake conditions. ACI and the American Society of Civil Engineers jointly honor Dr. Hsu's life-long contribution to the field of structural engineering by naming the ACI Symposium “Thomas T.C. Hsu Symposium on Shear and Torsion in Concrete Structures.” Symposium sessions will be held on Monday and Tuesday in Salon B. Refer to the session section for a listing of topics.

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.
Sunday, November 8, 2009
9:00 pm – 10:30 pm

Student and Young Professional Networking Event  55 FAHRENHEIT
Sponsored by the ACI Collegiate Concrete Council and Advisory Committee for Young Members

The ACI Collegiate Concrete Council and ACI Advisory 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.
Monday, November 9, 2009
6:30 am – 8:15 am

Workshop for Technical Committee Chairs
SALONS D&E
Sponsored by the ACI Technical Activities Committee

Session Moderator: Chiara F. Ferraris
Physicist
National Institute of Standards and Technology
Gaithersburg, MD

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, November 9, 2009
7:00 am – 8:30 am

Speaker Skills Training Breakfast: Spicing Up Your Presentation
LA GALERIE 3
Sponsored by ACI Committee E802, Teaching Methods and Educational Materials

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

Speaker: Zachary C. Grasley
Assistant Professor
Texas A&M University
College Station, TX

Topic: Spicing Up Your Presentation

Looking to spice up your presentation? Some common pitfalls of PowerPoint presentations will be discussed, as well as tips on how to avoid them. New technologies available for “spicing up” presentations for ACI sessions or for other audiences will be demonstrated and their application described. In particular, a few new technologies that improve audience attention and participation will be discussed. A light continental breakfast will be served.
Nanotechnology of Concrete: The Next Big Thing is Small, SALON A
Part 1
Sponsored by ACI Committee 236, Material Science

Session Co-Moderators: Konstantin Sobolev
Associate Professor
University of Wisconsin-Milwaukee
Milwaukee, WI

Mahmoud M. Reda Taha
Associate Professor
University of New Mexico
Albuquerque, NM

Nanotechnology has changed our vision, expectations and abilities to control the material world. These developments will have a great impact on the field of construction materials. Portland cement, one of the largest commodities consumed by mankind, is obviously the product with great, but at the same time, not completely explored potential. Better understanding and precise engineering of an extremely complex structure of cement-based materials at the nano-level will apparently result in a new generation of concrete, stronger and more durable, with desired stress strain behavior and possibly possessing the range of newly introduced smart properties. Information presented in this session will benefit all convention attendees, especially contractors, engineers, manufacturers and suppliers of construction materials.

Nano to Microlevel Modeling of Cement-Based Materials  9:00 am
Eddy Koenders, Associate Professor, Delft University of Technology, The Netherlands; Jorge Sanchez Dolado and Antonio Porro, Labein Nanotechnology Institute; and Klaas Van Breugel, Delft University of Technology

Nanoscale Characterization of Concrete  9:20 am
Surendra P. Shah, Professor, Northwestern University, Evanston, IL; Paramita Mondal, University of Illinois; and Jae Hong Kim, Northwestern University
Monday, November 9, 2009
9:00 am – 12:00 pm

Nanotechnology of Concrete: The Next Big Thing is Small, SALON A
Part 1 (cont.)

Design of Nano-SiO₂ to Improve the Performance of Cement and Concrete
9:40 am
Ismael Flores, PhD Candidate, Universidad Autónoma de Nuevo León, Nuevo León, Mexico; Konstantin Sobolev, University of Wisconsin-Milwaukee; and Leticia Torres Martínez, Pedro Valdez Tamez, Elvira Zarazua Morín, and Enrique Lopez Cuellar, Universidad Autónoma de Nuevo León

Influence of TiO₂ Nanoparticles on Early C₃S Hydration
10:00 am
Bo Yeon Lee, PhD Candidate, Georgia Institute of Technology, Atlanta, GA; Jeffrey J. Thomas, Northwestern University; and Matthew Treager and Kimberly E. Kurtis, Georgia Institute of Technology

Carbon Nanotubes Reinforced Concrete
10:20 am
Zoi Metaxa, PhD Candidate, Northwestern University, Evanston, IL; Maria Konsta-Gdoutos, Democritus University of Thrace; and Surendra P. Shah, Northwestern University

Carbon Nanofibers and Nanotubes in Cementitious Materials: Some Issues on Dispersion and Interfacial Bond
10:40 am
Ardavan Yazdanbakhs, PhD Candidate, Texas A&M University, College Station, TX; and Zachary Grasley, Bryan Tyson, and Rashid K. Abu Al-Rub, Texas A&M University

Effect of Nanosized Silica on Mechanical Properties in High-Performance Concrete Mixes
11:00 am
Joan Bowser, Professor, University of New Mexico, Albuquerque, NM; and Arup Maji, University of New Mexico

Concrete—The Original Nano-Material
11:20 am
Marion R. Hansen, Professor, South Dakota School of Mines and Technology, Rapid City, SD
Monday, November 9, 2009
9:00 am – 12:00 pm

Simple Tools and Gadgets which Help Solve Your Problems
Sponsored by ACI Committee E702, Designing Concrete Structures

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

Luke M. Snell
Eminent Scholar
Del E. Web School of Construction
Arizona State University
Tempe, AZ

This session will cover inexpensive tools, gadgets and techniques that make inspections and construction activities easier and can help you solve your concrete problems. A brief overview of these topics will be followed by live demonstrations. Engineers, contractors, or anyone who wants a better bang for their buck when trying to solve a problem, perform an inspection, or complete construction projects should attend this session.

Playing Inspector Gadget is Beneficial! (Session Overview) 9:00 am
Lawrence H. Taber, Structural Engineer, Black & Veatch, Kansas City, MO

Banging Around with Chains and Hammers 9:05 am
Philip P. Schlossnagle, Project Engineer, Ardaman & Associates Inc., Tampa, FL

Don’t Cut the Rebar! Using a Reinforcement Locator 9:15 am
Lawrence H. Taber, Structural Engineer, Black & Veatch, Kansas City, MO

Where’s the Soft Spot? Using a Rebound Hammer 9:25 am
Jarkko T. Simonen, Associate, Wiss Janney and Elstner Associates Inc., Austin, TX

Checking Conditions with a Weather Station and Infrared Thermometer 9:35 am
Luke M. Snell, Eminent Scholar, Del E. Web School of Construction, Tempe, AZ
Monday, November 9, 2009
9:00 am – 12:00 pm

Simple Tools and Gadgets which Help Solve Your Problems (cont.)

Focusing on the Details with a Handheld Microscope 9:45 am
Derek X. Cong, Associate Principal, Wiss Janney and Elstner Associates Inc., Austin, TX

Taking a Peek with a Borescope 9:55 am
Bill Bloemendal, Principal Engineer, American Engineering Testing, Saint Paul, MN

Using a Chace Air Indicator and Weighing Cylinders 10:05 am
Bryan R. Castles, Senior Materials Engineer, Western Technologies Inc., Phoenix, AZ

Live Demonstrations 10:15 am
Monday, November 9, 2009
9:00 am – 12:00 pm

The Leading Edge of Pervious Concrete, Part 1  SALONS G&H
Sponsored by ACI Committee 522, Pervious Concrete

Session Co-Moderators:  Charles A. Weiss, Jr.
Research Geologist
U.S. Army Engineer Research &
Development Center
Vicksburg, MS

Matthew A. Offenberg
Southeast U.S. Technical
Services Manager
W.R. Grace
Canton, GA

Pervious concrete is an innovative building material with many environmental, economic, and structural advantages. With increasing use of the material more research into new applications and a better understanding of the properties of pervious concrete is needed. This session will highlight the advances that are being made in the use, specification, and performance of pervious concrete.

Chemical Admixture System for Pervious Concrete  9:00 am
Matthew A. Offenberg, Southeast U.S. Technical Services Manager, W.R. Grace, Canton, GA; and Eric Koehler and Ara Jeknavorian, Grace Construction Products

Pervious Concrete Specification Progress  9:30 am
Charles A. Weiss, Jr., Research Geologist, U.S. Army Engineer Research & Development Center, Vicksburg, MS; Toy S. Poole, U.S. Army Engineer Research & Development Center; and Matthew A. Offenberg, W. R. Grace

Field Performance Evaluation of Pervious Concrete  10:00 am
Pavements in Freeze-Thaw Environments
Norbert J. Delatte, Professor, Cleveland State University, Broadview Heights, OH

Pervious Concrete and pH  10:30 am
Liv Haselbach, Associate Professor, Washington State University, Pullman, WA
Monday, November 9, 2009
9:00 am – 12:00 pm

The Leading Edge of Pervious Concrete, Part 1 (cont.)  SALONS G&H

Sedimentation of Pervious Concrete Pavement Systems  11:00 am
Luis A. Mata, Assistant Professor, Lawrence Technological University, Southfield, MI; and Michael L. Leming, North Carolina State University

Development of ASTM Test Methods for Pervious Concrete  11:30 am
Karthik H. Obla, Vice President of Research & Materials Engineering, National Ready Mixed Concrete Association, Silver Spring, MD
Design of a concrete mixture with desirable workability is essential in every step of a concrete project, from the manufacturing process, construction operation, and quality control to the long-term performance of hardened concrete. In recent years, concrete technology has advanced dramatically due to the uses of numerous supplementary cementitious materials, additives, and chemical admixtures as well as the development of various new types of concretes (such as self-consolidating concrete, engineered cementitious concrete, and pervious concrete). The demands for rapid construction, high performance, and excellent durability of concrete have also been increasing. As a result, an urgent need has emerged for workability measurement and acceptance of various concretes. In response to such an urgent need, ACI Committee 238 recently published a state-of-the-art report on Measurements of Workability and Rheology of Fresh Concrete (ACI 238.1R-08). This report provides a comprehensive view of workability and rheology of fresh concrete and a critical review of existing test methods. It discusses the factors affecting fresh concrete performance and provides a better understanding of the important issues related to the design of workable concrete, from no flow (zero slumps) to high flow. All presentations of this session will be developed based on the ACI 238 report. In addition, a special presentation will be delivered on how to teach concrete workability in the classroom to bridge material science and industry needs. All PowerPoint files of the presentations will be compiled into CDs, and the CDs will be distributed to the audiences. It is expected that the audience would carry forward the information received to classrooms, research laboratories, and/or field projects.
Monday, November 9, 2009
9:00 am – 12:00 pm

Things You Need to Know About Workability of Concrete (cont.)

Test Methods for Workability and Rheology of Fresh Concrete 9:30 am
Eric P. Koehler, Research Engineer, W.R. Grace, Cambridge, MA

Factors Affecting Workability of Concrete 10:00 am
Peter H. Billberg, Postdoctoral Researcher, Swedish Cement and Concrete Research Institute, Stockholm, Sweden

Examples of Using Workability Test Methods 10:30 am
Joseph A. Daczko, Product Manager, BASF Construction Chemicals, Mantua, OH

Relationship Between Rheology and Workability of Cement-Based Materials 11:00 am
Kamal H. Khayat, Professor, University of Sherbrooke, Sherbrooke, QC, Canada
This symposium will honor Professor Thomas T.C. Hsu for his life-long contribution to the field of structural engineering, particularly in the area of shear and torsion. The Special Publication (SP) of the Symposium contains 29 papers and 32 presentations that represent the state-of-the-art advances in new knowledge on shear and torsion. The Symposium consists of four sessions with 32 presenters from different corners of the globe. The Symposium and the SP volume are organized to allow Tom’s many friends, students, and colleagues to honor him for his fundamental contribution to the knowledge of shear and torsion and for his half a century contribution to ACI technical discussions and reports. The SP covers a wide spectrum of knowledge including: (1) Recent Advances in Seismic Shear of Wall-Type Structures, (2) Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures, (3) Five Decades of Progress in Shear and Torsion, and (4) Recent Advances in Shear of Concrete Bridges.

Introduction  9:00 am
David Darwin, Distinguished Professor, University of Kansas, Lawrence, KS

Test of a Coupled Wall with High-Performance Fiber-Reinforced Concrete Coupling Beams  9:04 am
James K. Wight, Professor, University of Michigan, Ann Arbor, MI; and Gustavo J. Parra-Montesinos and Remy D. Lequesne, University of Michigan
Monday, November 9, 2009
9:00 am – 12:00 pm

Thomas T.C. Hsu Symposium, Part 1: Recent Advances in Seismic Shear of Wall-Type Structures (cont.)

The Impact of Shear on Shear Wall Systems 9:26 am
John W. Wallace, Professor, University of California, Los Angeles, CA; Kutay Orakcal, Bogazici University; and Leonardo M. Massone, University of Chile

Shear Strength Prediction of Eccentric Beam-Column Joints 9:48 am
Shyh-Jiann Hwang, Professor, National Taiwan University, Taipei, Taiwan; Erwin Lim, National Taiwan University; and Hung-Jen Lee, National Yunlin University of Science & Technology

Reversed Cyclic Behavior of Reinforced Concrete Shear Walls with Diagonal Steel Grids 10:10 am
Jian-Xia Zhong, Engineer, MMI Engineering, Inc., Houston, TX; Yi-Lung Mo, University of Houston; and Weni-Liao, National Taipei University of Technology

Evaluation of Behavior of Reinforced Concrete Shear Walls through Finite Element Analysis 10:32 am
Ravi T. Mullapudi, PhD Candidate, University of Houston, Houston, TX; and Ashraf S. Ayoub and Parnak Charkhchi, University of Houston

Constitutive Relations of Cracked Reinforced Concrete with Steel Fibers 10:54 am
Mohamad Y. Mansour, Senior Engineer, Bennett and Associates LLC, Houston, TX; and Thomas T.C. Hsu and Yi-Lung Mo, University of Houston

Simulation of Prestressed Concrete Girders Failed by Shear 11:16 am
Yi-Lung Mo, Professor, University of Houston, Houston, TX; and Rachel N. Howser, Thomas T.C. Hsu, and Arghadeep Laskar, University of Houston

Refinements to Compression Field Theory, with Application to Wall-Type Structures 11:38 am
Enrique Hernandez-Montes, Professor, University of Granada, Spain; Mark A. Aschheim, Santa Clara University; Luisa Maria Gil-Martin, University of Granada; and Stavroula Pantazopoulou, Demokritos University of Thrace
Monday, November 9, 2009
9:00 am – 12:00 pm

Research in Progress  
SALON F
Sponsored by ACI Committee 123, Research and Current Developments

Session Co-Moderators:  Matthew D’Ambrosia  
Project Manager  
CTL Group  
Skokie, IL  
Aleksandra Radlinska  
Assistant Professor  
Villanova University  
Villanova, PA

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

Behavior of Ultra-High-Strength Steel Reinforced Concrete Members Subjected to Large Deflection Reversals  
9:00 am
Hooman Tavallali, PhD Candidate, Pennsylvania State University, University Park, PA; Andres Lepage, Pennsylvania State University; and Jeffrey Rautenberg and Santiago Pujol, Purdue University

Lightweight Concrete Beams with Steel Fiber Shear Reinforcement  
9:15 am
Thomas Kang, Assistant Professor, University of Oklahoma, Norman, OK; and Woosuk Kim, University of Oklahoma

Performance Assessment of an Existing Reinforced Concrete Storage Silo with the Absence of Out-of-Plane Shear Reinforcements  
9:30 am
Trevor D. Hrynyk, PhD Candidate, University of Toronto, Toronto, ON, Canada; and Frank J. Vecchio, University of Toronto

Thermo-Mechanical Response of Concrete Exposed to Fire  
9:45 am
Elin Jensen, Associate Professor, Lawrence Technological University, Southfield, MI; and Jacob Van Horn, Lawrence Technological University

Failure of a Deck Closure Pour on I-81  
10:00 am
Richard E. Weyers, Professor, Virginia Polytechnic Institute, Blacksburg, VA; Michael Sprinkel, Virginia Department of Transportation; and Sean A. Weyers and Andrei Ramniceanu, Virginia Polytechnic Institute
Monday, November 9, 2009
9:00 am – 12:00 pm

Research in Progress (cont.)

Permeability of Fiber Reinforced Mortar under Stress
Meghdad Hoseini, Graduate Research Assistant, University of Alberta, Edmonton, AB, Canada; and Vivek Bindiganavile, University of Alberta

Critical Chloride Threshold of Prestressing Steel and Service Life of Prestressed Concrete Structures
Radhakrishna G. Pillai, Post Doctoral Research Associate, Texas A&M University, College Station, TX; and David Trejo, Oregon State University

Effect of Sample Conditioning on the Water Absorption of Concrete
Javier Castro, PhD Student, Purdue University, West Lafayette, IN; and Jason Weiss, Purdue University

SEM Examination of the Alkali-Silica Reactivity of Recycled Glass Sand in ASTM C1260 Mortars
Farshad Rajabipour, Assistant Professor, Pennsylvania State University, State College, PA; Hamed Maraghechi, University of Hawaii; and Gregor Fischer, Technical University of Denmark

Alkali Contribution from Fly Ash and Impact on Alkali-Silica Reactivity
Kelsea Schwing, Graduate Student, Oregon State University, Corvallis, OR; and Jason H. Ideker, Oregon State University

Field Studies of Mitigation Strategies for Alkali-Silica Reaction in Hardened Concrete
Eric R. Giannini, Graduate Research Assistant, University of Texas at Austin, Austin, TX; and Kevin J. Folliard and Anthony F. Bentivegna, University of Texas at Austin

Characterization of Cement Kiln Dust Activated Fly Ash and Slag as Alternative Binding Materials for Sustainable Concrete
Sulapha Peethamparan, Assistant Professor, Clarkson University, Potsdam, NY; and Piyush Chaunsali, Clarkson University
Monday, November 9, 2009  
12:00 pm – 2:00 pm

✓ Student Lunch  
SALONS D&E  
$27 U.S. per person; FREE to students who preregister  
Sponsored by Baker Concrete Construction

Coordination by the ACI Louisiana Chapter and ACI Committee E801, Student Activities

Speaker: Sid Jacobson  
Director  
Sid Jacobson & Associates  
Metairie, LA

Topic: Navigating the Task-Relationship Minefield: Long Term Success in the World of Work

Join other ACI attendees and students for the announcement of the Student Competition results. Following lunch, featured speaker Sid Jacobson, Founder and Director of The South Central Institute of Neuro-Linguistic Programming, will give a presentation on Navigating the Task-Relationship Minefield: Long Term Success in the World of Work.

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

✓ = separate fee required
Monday, November 9, 2009
2:00 pm - 5:00 pm

“What’s New” on Concrete Reinforcing Detailing  SALON F
Sponsored by Committee E702, Designing Concrete Structures

Session Co-Moderators:  Richard Birley
President
Condor Rebar Consultants Inc.
Vancouver, BC, Canada

Roy H. Reiterman
Consultant
Wire Reinforcement Institute
Troy, MI

The reinforced concrete detailing committee, 315-B reports on the most recent forums created and published.

The Structural Engineer’s Responsibility for the Constructability of Concrete Structures  2:00 pm
Robert M. Darvas, Principal Engineer, University of Michigan, Ann Arbor, MI

The Contractors View: Case Studies on Constructibility  2:25 pm
Mario Garza, Preconstruction Manager, Barton-Malow Company, Oak Park, MI

Clarity of Design Intent - How to Avoid Misinterpretation of Structural Drawings  2:50 pm
Javed B. Malik, Structural Group Member, Jacobs Carter Burgess, Houston, TX

3-D Modeling of Reinforced Concrete for Nuclear Projects  3:15 pm
Gregory P. Birley, Vice President of Technical Development, Condor Rebar Consultants Inc., Vancouver, BC, Canada

Discussion on Revising/Updating ACI/CRSI’s Detailing Concrete Reinforcing Publications  3:40 pm
Dennis L. Hunter, Engineering Manager, Gerdau Ameristeel, Tampa, FL

“Updating Wire & WWR Details” Synopsis - SOG, Single Story and Multi-Story Buildings  4:05 pm
Todd Hawkinson, Technical Consultant, Wire Reinforcement Institute, Ballwin, MO; and Theodore A. Mize, Ivy Steel & Wire
Monday, November 9, 2009
2:00 pm – 5:00 pm

Nanotechnology of Concrete: The Next Big Thing is Small, Part 2
Sponsored by ACI Committee 236, Material Science

Session Co-Moderators: Konstantin Sobolev
Associate Professor
University of Wisconsin-Milwaukee
Milwaukee, WI

Mahmoud M. Reda Taha
Associate Professor
University of New Mexico
Albuquerque, NM

Nanotechnology has changed our vision, expectations and abilities to control the material world. These developments will have a great impact on the field of construction materials. Portland cement, one of the largest commodities consumed by mankind, is obviously the product with great, but at the same time, not completely explored potential. Better understanding and precise engineering of an extremely complex structure of cement based materials at the nano-level will apparently result in a new generation of concrete, stronger and more durable, with desired stress strain behavior and possibly possessing the range of newly introduced smart properties. Information presented in this session will benefit all convention attendees, especially contractors, engineers, manufacturers and suppliers of construction materials.

Comparative Creep Compliance of Two Concretes 2:00 pm
Using Nanoidentation
Aaron K. Reinhardt, Research Assistant, University of New Mexico, Albuquerque, NM; and Andrew P. Garner, Mehran Tehrani, Marwan Al-Haik, and Mahmoud M. Reda Taha, University of New Mexico

Multi-Scale Performance and Durability of Nano-Modified Cementitious Composites 2:25 pm
Florence Sanchez, Professor, Vanderbilt University, Nashville, TN; Catherine Gay, Vanderbilt University
Monday, November 9, 2009  
2:00 pm – 5:00 pm

Nanotechnology of Concrete: The Next Big Thing  
SALON A
is Small, Part 2 (cont.)

Porosity and Permeability of Cementitious Materials,  
2:50 pm
Incorporating Very Low Concentrations of Poly(ethylene oxide)-
black-Polystyrene
Dessi Koleva, Researcher, Delft University of Technology, Delft,
The Netherlands; and Klaas Van Breugel, Guang Ye, Jian Zhou,
Chamululu Godfrey, and Eduard Koenders, Delft University of Technology

Beneficial Effects of Small Amounts of Nanosilica on  
3:15 pm
the Mechanical Stability of Cement
Jintendra Jain, Post Doctoral Research Associate, Purdue University,
West Lafayette, IN; and Narayanan Neithalath, Clarkson University

Enhancing the Reactivity of Normal and High-Volume  
3:40 pm
Fly Ash Concrete Using
Colloidal Nano-Silica
Aly Said, Assistant Professor, University of Nevada Las Vegas, Las
Vegas, NV; and Mohamed Zeidan, University of Nevada Las Vegas

The Investigation of Nano-Silica in the Cement  
4:05 pm
Hydration Process
Jon Belkowitz, Supervisor, Lafarge, Western United States BU Laboratory,
Denver, CO; and Daniel L. Armentrout, University of Denver

How can Multiscale Modeling Provide Useful Information  
4:30 pm
for Structural Assessment and Life Cycle Management?
Yann Le-Pape, Senior Researcher, EDF R&D Materials and Mechanics,
Moret-Sur-Loing, France; and Charles Toulemonde and Julien Sanahuja,
Electricité de France

102
Monday, November 9, 2009
2:00 pm – 5:00 pm

Quality Management Systems for Concrete Construction  SALON C
Sponsored by ACI Committee 121, Quality Assurance Systems for Concrete

Session Co-Moderators:  Stephen Marchese
President
Future Tech Consultants
Mineola, NY

Ryan Riehle
President
Buildways Corporation
Pittsburgh, PA

Committee 121’s technical session will provide guidance, examples, and experiences demonstrating implementation of quality management tools and systems for concrete construction. This session will be useful to owners, contractors, architects, engineers, and consultants.

The Successful Implementation of an ACI 121 Quality Management System at Ready Mixed Concrete Company 2:00 pm
Godwin Q. Amekuedi, Director of Corporate Quality Assurance and Technology, Ready Mixed Concrete Company, Raleigh, NC

Quality Assurance for a Material Testing Lab 2:30 pm
Eugene Takhtovich, Materials Testing Lab Director, HAKS Engineering, Long Island City, NY; and Paul Hedli, Hatch Mott MacDonald

QA and QC - A Three Year Old’s Perspective 3:00 pm
Woodward L. Vogt, President, Paradigm Consultants, Inc., Houston, TX

Putting It all Together - The ISO Standard and the Concrete Industry 3:30 pm
Raymond Hayes, Independent Consultant, Raymond Hayes, Birmingham, AL

ICRETE Optimization and QA Systems 4:00 pm
John Holley, Manufacturer’s Representative, ICRETE, Orlando, FL

Building Information Modeling (BIM) and Quality Assurance 4:30 pm
Cory L. Dippold, Associate, Hatch Mott MacDonald, Millburn, NJ
Pervious concrete is an innovative building material with many environmental, economic, and structural advantages. With increasing use of the material more research into new applications and a better understanding of the properties of pervious concrete is needed. This session will highlight the advances that are being made in the use, specification, and performance of pervious concrete.

**Models for Performance Prediction of Pervious Concrete**  
*2:00 pm*  
**Narayanan Neithalath**, Professor, Clarkson University, Potsdam, NY

**Measurement of TSS and Other Pollutant Removal by Pervious Concrete and Incorporation of Results into a Site Development Tool**  
*2:30 pm*  
**Heather J. Brown**, Associate Professor, Middle Tennessee State University, Murfreesboro, TN

**Architectural Pervious Concrete**  
*3:00 pm*  
**Scott Erickson**, President, Evolution Paving Resources, Salem, OR

**What’s New in Pervious Concrete**  
*3:30 pm*  
**Bruce A. Glaspey**, Southeast Division Manager, Magruder Construction, Sanford, FL

**Internal Curing of Pervious Concrete**  
*4:00 pm*  
**Dale Fisher**, Executive Director, PCI Systems LLC, Woodstock, GA

**Durability and Performance of the Pervious Concrete Overlay at MnRoad**  
*4:30 pm*  
**John T. Kevern**, Assistant Professor, University of Missouri in Kansas City, Prairie Village, KS; and **Kejin Wang** and **Vernon Schaefer**, Iowa State University
Monday, November 9, 2009
2:00 pm – 5:00 pm

Thomas T.C. Hsu Symposium, Part 2: Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures
Sponsored by ACI Committee 447, Finite Element Analysis of Reinforced Concrete Structures

Session Organizer: Abdeldjelil Belarbi
Distinguished Professor
Missouri University of Science and Technology
Rolla, MO

Session Co-Moderators: Laura N. Lowes
Associate Professor
University of Washington
Seattle, WA

Ashraf S. Ayoub
Associate Professor
University of Houston
Houston, TX

This Symposium will honor Professor Thomas T.C. Hsu for his life-long contribution to the field of structural engineering, particularly in the area of shear and torsion. The Special Publication (SP) of the Symposium contains 29 papers and 32 presentations that represent the state-of-the-art advances in new knowledge on shear and torsion. The Symposium consists of four sessions with 32 presenters from different corners of the globe. The Symposium and the SP volume are organized to allow Tom's many friends, students, and colleagues to honor him for his fundamental contribution to the knowledge of shear and torsion and for his half a century contribution to ACI technical discussions and reports. The SP covers a wide spectrum of knowledge including: (1) Recent Advances in Seismic Shear of Wall-Type Structures, (2) Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures, (3) Five Decades of Progress in Shear and Torsion, and (4) Recent Advances in Shear of Concrete Bridges.

Introduction 2:00 pm
Laura N. Lowes, Associate Professor, University of Washington, Seattle, WA
Monday, November 9, 2009
2:00 pm – 5:00 pm

Thomas T.C. Hsu Symposium, Part 2: Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures (cont.)

Damage Tools to Model Severe Loading Effects on Reinforced Concrete Structures
Jacky Mazars, Professor, Polytechnic Institute Grenoble, France; Alain Rouquand and Christophe Pontiroli, Studies Center of Gramat; Philippe Berthet-Rambaud, MND Engineering; and Yann Malecot, University Joseph Fourier Grenoble

Evaluation and Calibration of Load-Deformation Models for Concrete Walls
Laura N. Lowes, Associate Professor, University of Washington, Seattle WA; Paul Oyen, Simpson Gumpertz and Heger, Inc.; and Dawn E. Lehman, University of Washington

Finite Element Analysis of Concrete Structures—A Historical Overview
Christian Meyer, Professor of Civil Engineering, Columbia University, New York, NY

Experimental Observations of Masonry Infilled Reinforced Concrete Frames with Openings
Kaspar Willam, Professor, University of Colorado at Boulder, Boulder, CO; and Ben Blackard and Siva Mettupalayam, University of Colorado at Boulder

Finite Element Analysis of Reinforced Concrete Joints Subjected to Multi-Axial Loading
Hiroshi Noguchi, Professor and Dean of the Graduate School of Engineering, Chiba University, Chiba City, Japan; and Kohta Miura, Saitama Prefectural Government

On Peridynamic Computational Simulation of Concrete Structures
Walter H. Gerstle, Professor, University of New Mexico, Albuquerque, NM; Nicolas Sau, University of Sonora; and Navid Sakhavand, University of New Mexico
Monday, November 9, 2009
2:00 pm – 5:00 pm

Thomas T.C. Hsu Symposium, Part 2: Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures (cont.)

Evaluation of Sequentially Linear Finite Element Analysis to Simulate Nonlinear Response of Cement-Based Composites
Sarah L. Billington, Associate Professor, Stanford University, Stanford, CA

Fiber Beam Element Formulation Using the Softened Membrane Model
Ashraf S. Ayoub, Associate Professor, University of Houston, Houston, TX; and Ravi T. Mullapudi, University of Houston
Monday, November 9, 2009
5:00 pm – 6:00 pm

Women in ACI Reception
ST. CHARLES SUITE

All registered convention attendees are invited to attend the Women in ACI Reception. This long-standing ACI tradition is a great opportunity to get to know other women in the concrete industry through networking and socializing. A cash bar and light hors d'oeuvres will be served.
Monday, November 9, 2009
7:00 pm – 10:00 pm

✓ Sunset on the River Jazz Dinner Cruise
DEPART MAIN LOBBY
$69 U.S. per person

Prepare to take a journey back in time on the Mighty Mississippi aboard an authentic steamboat. Your personalized cruise will travel from the heart of the French Quarter through the second-busiest port in the world. You will enjoy a dinner buffet of traditional New Orleans Creole cuisine and dance to the sounds of a lively jazz band. Beverages are available for purchase at the cash bar.

Attendees are encouraged to wear comfortable walking shoes. The boat is four short blocks from the hotel. A map will be provided to attendees and there will be guides along the way to point you in the right direction.

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

✓ = separate fee required
Monday, November 9, 2009
7:30 pm – 10:00 pm

123 Forum: Are Concrete Structures Better Suited for Hurricanes and Other Extreme Events?
Sponsored by ACI Committee 123, Research and Current Development

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

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

Panelist Presentation 7:35 am
Following its long tradition, ACI Committee 123 brings industry experts again in New Orleans to debate on another subject and to share their views with ACI patrons. The debate this time is whether concrete structures are better suited for hurricane and other extreme events. The past decade has witnessed a number of major and minor hurricane and other extreme events both within the U.S. and overseas, which have cost thousands of lives and inflicted severe economic losses. Hurricane Katarina and its devastating effects are still fresh in our memories. Hurricanes and other extreme events, which are the act of Mother Nature, are unpredictable and inevitable. Now the question is whether concrete structures are resilient enough for these acts of Mother Nature. Do we precisely know which zones are prone to hurricane and other extreme events? Do we design our structures according to the anticipated severity level of hurricanes and other extreme events? Are our designs and safety factors based upon an adequate risk versus cost analysis? Do we pay particular attention to the foundation design of our structures? Do we have effective technologies to assess damage induced by hurricane and other extreme events? Do we have materials and construction technologies to effectively and economically retrofit structures damaged by hurricanes and other extreme events and make them serviceable in a timely manner? Our panelists in New Orleans will address these and many other questions, and after discussing the subject with them you should be able to make an assessment whether concrete structures are better suited for hurricane and other extreme events.

Questions, Answers, and Discussion 8:25 am
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Construction Methods for Non-Traditional ICF’s
SALONS G&H
Sponsored by ACI Committee 560, Design and Construction with ICF’s

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

Insulating Concrete Form (ICF) systems offer advantages in terms of speed of construction and energy savings. This session presents analytical and empirical methods of design based upon full-scale testing of structural grid reinforced concrete ICF walls. Concepts of equivalent solid wall thickness and equivalent seismic behavior are also included.

ICF’s and Sustainability 9:00 am
Martha G. VanGeem, Principal Engineer, CTL Group, Skokie, IL

Non-Traditional Concrete in ICF’s 9:30 am
Kevin A. MacDonald, Vice President of Engineering Services,
Cemstone Concrete Products, Mendota Heights, MN

ICF’s & NAHB Green Building Standard 10:00 am
Michael H. Weber, Chief Operating Officer, Building Works Inc.,
Lewisburg, PA

ICF Construction - An Overview 10:30 am
Donn C. Thompson, Manager Residential Technology,
Portland Cement Association, Skokie, IL

ICF Construction From an Owner Builder/Designer 11:00 am
Point of View
David H. DeValve, Engineer, Oklahoma Steel and Wire, Madill, OK

Open Forum Discussion 11:30 am
Carla V. Yland, President, Yland Research & Consulting LLC, Irvine, CA
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Contractors’ Day Session, Part 1
SALON F
Sponsored by the ACI Louisiana Chapter

Session Moderator: Darrell F. Elliot
Technical Service Manager
Buzzi Unicem USA
Laplace, LA

Contractors will learn what to look for in specifications—the common problems and how to work through them. We will explore the latest admixture technologies, including self-consolidating concrete (SCC). Contractors will learn what products and systems are available, and how these may be used to the contractor’s benefit. Will all these materials work together? We will delve into possible issues when combining multiple cementitious materials with various chemical admixtures. There will be a discussion of mass concrete, as more and more projects entail large placements requiring thermal considerations.

Concrete Specifications - Common Problems and Recommended Solutions
John F. Duntemann, Senior Consultant, Wiss, Janney, Elstner Associates, Northbrook, IL

Admixtures - What’s Out There? Where Are They Used?  9:30 am
Thomas M. Greene, Technical Services Manager, W.R. Grace, Houston, TX

Self Consolidation Concrete - Where Do I Find The Value?  10:00 am
Joseph A. Daczko, Product Line Manager, BASF Admixtures Inc., Mantua, OH

Compatibility Issues with Concrete Materials— Causes & Remedies
Tim Cost, Senior Technical Service Engineer, Holcim (US) Inc., Canton, MS

Mass Concrete & Thermal Control Considerations for Large Pours
Barry D. Fehl, Senior Engineer, URS Corporation, Saint Louis, MO
John Gajda, Senior Engineer, CTL Group, Skokie, IL
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Planning for Successful Concrete Projects
SALON A
Sponsored by ACI Committee E703, Concrete Construction Practices

Session Moderator: Michael G. Hernandez
Project Executive
Baker Concrete Construction
Miramar, FL

If a few skilled individuals can preplan a project effectively, the whole project team will benefit. This session will feature presentations from experienced professionals covering all phases of construction.

Prebid Planning 9:00 am
Harry P. Moats, President and Chief Operating Officer, L.M. Scofield, Douglasville, GA

Post-Bid Planning 10:00 am
David MacNeel, Operations Manager, Baker Concrete Construction, Monroe, OH

Job Site Planning 11:00 am
Michael V. Pedraza, Engineering Manager, National Reinforcing Systems PT, Inc., Raleigh, NC
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Temperature Effect on Concrete Performance  SALON C
Sponsored by ACI Committee 236, Material Science

Session Co-Moderators:  Jan Olek
                        Professor
                        Purdue University
                        West Lafayette, IN

                        Joseph J. Biernacki
                        Professor
                        Tennessee Technological University
                        Cookeville, TN

What effect does temperature have on curing and subsequent properties and performance of concrete? How can temperature be controlled and even optimized to produce the best possible outcomes in terms of short-term property development and long-term durability and life-cycle performance. Both contractors and researchers will benefit from this session which will focus on both the material science aspects of temperature effects as well as look at case studies where temperature histories and performance outcomes are known.

The Effect of Temperature on Early-Age Behavior of Concrete  9:00 am
Anton K. Schindler, Associate Professor, Auburn University, Auburn, AL

The Role of Early-Age Temperature Change in Residual Stress Development Internally Cured Concrete  9:20 am
John L. Schlitter, Graduate Student, Purdue University, Lafayette, IN;
Dale P. Bentz, National Institute of Standards and Technology; and
Jason Weiss, Purdue University

Bridge Deck and Pavement Placement Timing to Reduce Cracking: Use the Diurnal Temperature Variation to your Advantage  9:40 am
Kyle A. Riding, Assistant Professor, Kansas State University, Manhattan, KS

Influence of Thermal Curing Regimes on Short and Long-Term Behavior of Ultra-High Performance Concrete  10:00 am
Victor Y. Garas, PhD Candidate, Georgia Institute of Technology, Atlanta, GA; and Lawrence F. Kahn and Kimberly Kurtis, Georgia Institute of Technology
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Temperature Effect on Concrete Performance (cont.)  SALON C

Performance of Blended Cement in Hot and Cold Weather  10:20 am
Alex J. Hammond, Graduate Student, University of Utah, Salt Lake City, UT; and Paul Tikalsky, University of Utah

Controlling In-Situ Concrete Temperatures NYC World  10:40 am
Trade Center Reconstruction
Casimir S. Bognacki, Chief of Materials, the Port Authority of New York & New Jersey, Jersey City, NJ

Early Age Temperature Changes Cracking in HP Concrete  11:00 am
Bridge Decks
Kolluru V. Subramaniam, Associate Professor, University of New York, New York, NY

Temperature Dependence of Conversion Reactions  11:20 am
and Subsequent Volume Change in Calcium Aluminate Cement Systems
Jason H. Ideker, Assistant Professor, Oregon State University, Corvallis, OR


This Symposium will honor Professor Thomas T.C. Hsu for his life-long contribution to the field of structural engineering, particularly in the area of shear and torsion. The Special Publication (SP) of the Symposium contains 29 papers and 32 presentations that represent the state-of-the-art advances in new knowledge on shear and torsion. The Symposium consists of four sessions with 32 presenters from different corners of the globe. The Symposium and the SP volume are organized to allow Tom’s many friends, students, and colleagues to honor him for his fundamental contribution to the knowledge of shear and torsion and for his half a century contribution to ACI technical discussions and reports. The SP covers a wide spectrum of knowledge including: (1) Recent Advances in Seismic Shear of Wall-Type Structures, (2) Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures, (3) Five Decades of Progress in Shear and Torsion, and (4) Recent Advances in Shear of Concrete Bridges.

**Introduction**

*9:00 am*

**Paul Zia,** Distinguished Professor Emeritus, North Carolina State University, Raleigh, NC

**Development of Models for Torsion of Concrete Structures** *9:04 am*

**Lennart Elfgren,** Professor, Luleå University of Technology, Luleå, Sweden
Tuesday, November 10, 2009
9:00 am – 12:00 pm

Thomas T.C. Hsu Symposium, Part 3: Five Decades of Progress in Shear and Torsion (cont.)

Structural Concrete Beam Shear - Still a Riddle? 9:26 am
Mikael W. Braestrup, Senior Engineer, Ramboll, Copenhagen, Denmark

Punching Shear in Fire-Damaged Reinforced Concrete Slabs 9:48 am
Pietro G. Gambarova, Professor, Milan University of Technology, Milan, Italy; and Patrick Bamonte and Roberto Felicetti, Milan University of Technology

Review of Basic Assumptions for the Shear Design 10:10 am
Karl-Heinz Reineck, Professor, University of Stuttgart, Leonberg, Germany

Investigation of Strut Strength Using a Deep-Beam Database 10:32 am
David H. Sanders, Professor, University of Nevada, Reno, NV; and Neil Bahen, KPFF Consulting Engineers

Evaluation of Minimum Shear Reinforcement Requirements 10:54 am in Non-Prestressed Beams without Distributed Horizontal Reinforcement
Lesley H. Sneed, Assistant Professor, Missouri University of Science and Technology, Rolla, MO; and Julio A. Ramirez, Purdue University

Shear-Flexure-Torsion Interaction Features of Reinforced Concrete Bridge Columns—An Experimental Study 11:16 am
Abdeldjelil Belarbi, Distinguished Professor, Missouri University of Science and Technology, Rolla, MO; and Suriya S. Prakash, Missouri University of Science and Technology

Behavior of Reinforced Concrete Elements Subjected to Tri-directional Shear Using a State-of-the-Art Panel Tester 11:38 am
Ashraf S. Ayoub, Associate Professor, University of Houston, Houston, TX; and Moheb Labib and Yashar Mosleh, University of Houston
Tuesday, November 10, 2009
12:00 pm – 2:00 pm

✓ Contractors’ Day Lunch
SALON E
$40 U.S. per person
Hosted by the ACI Louisiana Chapter and Construction Liaison Committee

Speaker: Tim Ryan
Chancellor
The University of New Orleans
New Orleans, Louisiana

Topic: Where Will the Next Contractors’ Dollar be Coming From?

Join other ACI attendees and contractors for the Contractors’ Day Lunch. Featured speaker Tim Ryan, Chancellor at the University of New Orleans, will give a presentation on “Where Will the Next Contractors’ Dollar be Coming From?”

Tim Ryan is considered an expert on the New Orleans economy, the Louisiana economy, managerial economics, economic development, the New Orleans and Louisiana tax structure, the hospitality and tourism industries, and the United States economy. Ryan was recently appointed Chancellor of the University of New Orleans, having served as Interim Executive Vice Chancellor since July 2003. Prior to this appointment Ryan was Dean of the College of Business Administration and the Hibernia Professor of Economics at the University of New Orleans.

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

✓=separate fee required
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Can This Concrete Self-Consolidate? SALONS G&H
Sponsored by ACI Committee 237, Self-Consolidating Concrete

Session Co-Moderators: Anton K. Schindler
Gottlieb Associate Professor
Auburn University
Auburn, AL

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

In the U.S. the slump flow test is typically used to assess the filling ability of self-consolidating concrete (SCC). SCC is often required to have a target slump flow that ranges from 22 to 28 inches. However, SCC with a target slump flow lower that 22 inches has successfully been used. Presentations in this session will focus on the proportioning, properties, and application of SCC with a lower than usual slump flow.

Use of Low Slump Flow Self-Consolidating Concrete 2:00 pm
Joseph A. Daczko, Product Manager, BASF Admixtures Inc., Mantua, OH; and Emmanuel K. Attiogbe, BASF Admixtures Inc.

Use of Self-Consolidating Concrete in Drilled Shafts Applications 2:35 pm
Anton K. Schindler, Associate Professor, Gottlieb Associate Professor, Auburn, AL

Use of Self-Consolidating Concrete on the I-35W Bridge in Minneapolis 3:10 pm
Kevin A. MacDonald, Vice President of Engineering Services, Cemstone Products Company, Mendota Heights, MN

Performance of Steel-Reinforced Semi-Flowable Self-Consolidating Concrete 3:45 pm
Kamal H. Khayat, Professor, University of Sherbrooke, Sherbrooke, QC, Canada; and Fodil Kassimi, University of Sherbrooke

Successful Use of Self-Consolidating Concrete in Denmark 4:20 pm
Lars Nyholm Thrane, Consultant and Civil Engineer, Danish Technological Institute, Taastrup, Denmark; and Claus Pade, Danish Technological Institute
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Contractors’ Day Session, Part 2  SALON F
Sponsored by the ACI Louisiana Chapter

Session Moderator:   Darrell F. Elliot
Technical Service Manager
Buzzi Unicem USA
Laplace, LA

This session will begin with a discussion of jointing practices. This topic will help contractors avoid cracking problems, arguably the most common customer complaint. Next we will explore the proper practices for stripping forms. Now, things don’t always go right in concrete construction. We will show proper repair procedures, including structural repairs. Did you know that you can get a degree in Concrete Construction? There will be a presentation on such programs, where you can send candidates to be educated or find graduates to hire. Finally, there will be a panel discussion with all speakers returning to answer questions.

Jointing - Details and Practices  2:00 pm
Robert B. Anderson, President and Chief Engineer, Anderson Engineers, New Orleans, LA

Stripping Forms - When? Why? Importance?  2:30 pm
Consequences of Early Removal
Jim N. Cornell II, Senior Project Manager, The Beck Group, Dallas, TX

Concrete Repair - Repair of Construction Deficiencies  3:00 pm
Peter H. Emmons, President, Structural Group Inc., Hanover, MD

Construction - You Can Get a Degree in That?  3:30 pm
Luke M. Snell, Eminent Scholar, Del E. Web School of Construction, Arizona State University, Tempe, AZ

Panel Discussion with All Speakers  4:00 pm
Notes
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Open Paper Session  
SALON A
Sponsored by ACI Committee 123, Research and Current Development

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

Zachary Grasley
Assistant Professor
Texas A&M University
College Station, TX

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

Introduction 2:00 pm
Narayanan Neithalath, Assistant Professor, Clarkson University, Potsdam, NY

Comprehensive Phase Characterization of Class F Fly Ash 2:01 pm
Ryan T. Chancey, Senior Associate, Nelson Architectural Engineers, Plano, TX; Paul Stutzman, National Institute for Standards and Technology; and Maria C.G. Juenger and David W. Fowler, the University of Texas at Austin

Blending Different Fineness Cements to Engineer the Properties of Cement Based Materials 2:20 pm
Dale P. Bentz, Chemical Engineer, National Institute of Standards and Technology, Gaithersburg, MD

Long Term Monitoring and Evaluation of Concrete Samples Placed in Outdoor Sulphate Exposure Site 2:40 pm
Thanos Drimalas, Research Associate, University of Texas at Austin, Austin, TX

Time-Variant Structural Reliability of Post-Tensioned, Segmental Concrete Bridges Exposed to Corrosive Environments 3:00 pm
Radhakrishna Pillai, Post-Doctoral Research Associate, Texas A&M University; David Trejo, Oregon State University; and Paolo Gardoni, Kenneth Reinschmidt, and Mary Beth D. Hueste, Texas A&M University
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Open Paper Session (cont.)

FRP Super Laminates Offer Solutions to Unsolved Problems
Mo R. Ehsani, President, QuakeWrap, Inc., and Professor, University of Arizona, Tucson, AZ

Skin Reinforcement in Large Beams and Slabs— the Importance of Bar Size
Edward Sherwood, Assistant Professor, Carleton University, Ottawa, Ontario, Canada; and Evan C. Bentz and Michael P. Collins, University of Toronto

Control of Bridge Deck Cracking
Sergio Gutierrez, Graduate Research Assistant, Purdue University, West Lafayette, IN; and Robert J. Frosch, Purdue University

Nanoindentation of Cement Paste and Modeling Using Microstructural Homogenization
Tai Fan, Graduate Student, University of New Mexico, Albuquerque, NM; and Mahmoud Reda Taha, University of New Mexico

Experimental Assessment of the Effectiveness of Commercially Available Prestressed Strand Debonding Products
Matthew Pavelchak, Graduate Research Assistant, Purdue University, West Lafayette, IN; and Robert J. Frosch and Michael E. Kreger, Purdue University
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Thomas T.C. Hsu Symposium, Part 4: Recent Advances in Shear of Concrete Bridges
SALON B
Sponsored by ACI Committee 343, Concrete Bridge Design

Session Organizer: Abdeldjelil Belarbi
Distinguished Professor
Missouri University Science and Technology
Rolla, MO

Session Co-Moderators: W. Gene Corley
Senior Vice President
CTL Group
Skokie, IL

Danielle Kleinhans
Senior Engineer & Group Manager
CTL Group
Skokie, IL

This Symposium will honor Professor Thomas T.C. Hsu for his life-long contribution to the field of structural engineering, particularly in the area of shear and torsion. The Special Publication (SP) of the Symposium contains 29 papers and 32 presentations that represent the state-of-the-art advances in new knowledge on shear and torsion. The Symposium consists of four sessions with 32 presenters from different corners of the globe. The Symposium and the SP volume are organized to allow Tom’s many friends, students, and colleagues to honor him for his fundamental contribution to the knowledge of shear and torsion and for his half a century contribution to ACI technical discussions and reports. The SP covers a wide spectrum of knowledge including: (1) Recent Advances in Seismic Shear of Wall-Type Structures, (2) Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures, (3) Five Decades of Progress in Shear and Torsion, and (4) Recent Advances in Shear of Concrete Bridges.

Introduction 2:00 pm
W. Gene Corley, Senior Vice President, CTL Group, Skokie, IL

Shear Design Considerations for Deep Concrete Bridge Girders  2:04 pm
Neil M. Hawkins, Professor Emeritus, University of Illinois at Urbana Champaign, Urbana, IL; and Daniel A. Kuchma, University of Illinois at Urbana Champaign
Tuesday, November 10, 2009
2:00 pm – 5:00 pm

Thomas T.C. Hsu Symposium, Part 4: Recent Advances in Shear of Concrete Bridges (cont.)

Shear Strength of Slabs with Double-Headed Shear Studs in Radial and Orthogonal Layouts
Walter H. Dilger, Professor Emeritus, University of Calgary, Calgary, AB, Canada; and Gerd Birkle, Stantec Consulting

2:26 pm

Shear Capacity of Ultra-High-Performance Concrete I-Girders with Orthogonal Welded Wire Reinforcement
Maher K. Tadros, Professor, University of Nebraska–Lincoln, NE; and George Morcous and Marc Maguire, University of Nebraska–Lincoln

2:48 pm

Effect of Strand Debonding on Prestressed Concrete Girder Shear Performance
Mohsen Shahawy, President and CEO, SDR Engineering Consultants, Inc., Tallahassee, FL; and Tarek Hassan, Ain Shams University

3:10 pm

Concrete - The Sustainable 21st Century Greening Infrastructure Material
Edward G. Nawy, Distinguished Professor Emeritus, Rutgers University, Piscataway, NJ

3:32 pm

A New Design Method for Shear in Prestressed Concrete Girders
Arghadeep Laskar, Engineer, Worley Parsons, Houston, TX; and Thomas T.C. Hsu and Yi-Lung Mo, University of Houston

3:54 pm

FRP Shear Transfer Mechanism for Precast, Prestressed Concrete Sandwich Load-Bearing Panels
Sami H. Rizkalla, Distinguished Professor, North Carolina State University, Raleigh, NC; Tarek Hassan, Ain Shams University; and Gregory Lucier, North Carolina State University

4:16 pm

Reliability Models for Shear in Reinforced Concrete Beams
Andrzej S. Nowak, Professor, University of Nebraska–Lincoln, NE; and Piotr Paczkowski, University of Nebraska–Lincoln

4:38 am
Tuesday, November 10, 2009
5:00 pm – 6:00 pm

Faculty Network Reception

NAPOLEON SUITE

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, November 10, 2009
7:00 pm – 10:00 pm

Concrete Mixer at Mardi Gras World
Sponsored by the ACI Louisiana Chapter

Schedule of Events
6:30 pm  Buses start to load on Canal Street
6:45 pm  First bus departs
7:00 – 10:00 pm  Concrete Mixer Mardi Gras Style
8:00 pm  Parade
10:00 pm  Last bus to the Marriott

All ACI attendees MUST wear a name badge to board the bus and enter Mardi Gras World. Please use the drink tickets found in your registration packet, or cash to purchase beverages.

Mardi Gras is a year-round celebration you will have a chance to enjoy. The official colors for Mardi Gras are purple, green, and gold, chosen in 1872 by the King of Carnival, Rex. He chose purple to represent justice, green for faith, and gold for power. Experience Mardi Gras with a re-creation of an actual Mardi Gras Parade complete with a marching band and mini floats, and New Orleans-style food and beverages. Look for the special ACI New Orleans collector cups at the bars.

Casual attire and comfortable shoes are suggested.
Attendees are welcome to come dressed in costume.
Cameras are highly recommended.
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Current Trends in Structural Health Monitoring Systems of Concrete Structures, Part 1
SALON B
Sponsored by ACI Committee 444, Experimental Analysis

Session Co-Moderators: Nakin Suksawang
Assistant Professor
Florida International University
Miami, FL

Faris Malhas
Professor and Chair
University of Dayton
Dayton, OH

Structural health monitoring (SHM) provides significant advantages in developing a comprehensive and realistic approach for the qualitative assessment and evaluation of concrete structures. SHM also provides the owners with early warning that can prevent devastating failures. This session is planned to discuss: (1) current SHM systems and innovations for the assessment and evaluation of concrete structures; and (2) the need for improved techniques for health monitoring of reinforced concrete structures. Innovative and effective SHM techniques about the response of concrete structures during and following extreme events and other related damage assessment of deteriorated concrete structures will be presented.

Introduction 9:00 am
Nakin Suksawang, Assistant Professor, Florida International University, Miami, FL

Assessment of Concrete Structures Through Structural Health Monitoring 9:05 am
Nakin Suksawang, Assistant Professor, Florida International University, Miami, FL; and Hani H. Nassif, Rutgers University

Place Load Test of Truck Dock Maneuvering Area Waffle Slab 9:30 am
K. Nam Shiu, Vice President, Walker Restoration Consultants, Chicago, IL; Kurt Salm, Walker Restoration Consultants; and Malcolm Lim and Peter Foster, Universal Construction Testing, Ltd.

Health Monitoring of the I-35W St. Anthony Falls Bridge 9:55 am
Eric Johnson, Senior Bridge Engineer, FIGG Bridges, Tallahassee, FL
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Current Trends in Structural Health Monitoring Systems of Concrete Structures, Part 1 (cont.)

Distributed Coaxial Cable Sensors for Check Detection: Size and Location
Genda Chen, Professor of Civil Engineering, Missouri University of Science and Technology, Rolla, MO; and Iana Muchaidze, Joe Bishop, and David Pommerenke, Missouri University of Science and Technology

Fiber-Optic Method for Long-Term Structural Health Monitoring of Concrete High-Rise Buildings
Branko Glisic, Assistant Professor, Princeton University, Princeton, NJ; Daniele Inaudi, Roctest Canada and SMARTEC; and Joo Ming Lau, Housing and Development Board

Nondestructive Evaluation and Acoustic Emission Monitoring of RC Slab Bridge Exposed to Marine Environment
Fabio Matta, Research Assistant Professor, University of Miami, Coral Gables, FL; Paul Ziehl, University of South Carolina; and Antonio Nanni, Rossella Ferraro, Alexander Suma, and Brian Metrovich, University of Miami
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Fiber-Reinforced Self-Consolidating Concrete, Part 1  SALONS G&H
Sponsored by ACI Committees 237, Self Consolating Concrete, and 544, Fiber Reinforced Concrete

Session Co-Moderators: Corina-Maria Aldea
Senior Materials Engineer
AMEC Earth and Environmental
Hamilton, ON, Canada

Liberato Ferarra
Assistant Professor
Milan University of Technology
Milan, Italy

The objective of this session is to bring together experts from around the world who are active in ACI and RILEM committees related to fiber reinforced self-consolidating concrete (FRSCC) to discuss the state of the art research and practical applications of FRSCC.

Precast Elements Made with Steel Fiber Reinforced SCC  9:00 am
Surendra P. Shah, Professor, Northwestern University, Evanston, IL

Laboratory Investigation of Fiber Reinforced Self-Consolidating Concrete  9:30 am
Michael C. Brown, Research Scientist, Virginia Transportation Research Council, Charlottesville, VA; and H. Celik Ozyildirim and William L. Duke, Virginia Transportation Research Council

The Effect of Macro-Synthetic Fiber Reinforcement on the Flow Characteristics of Self Consolidating Concrete  10:00 am
Dean Forgeron, Assistant Professor, Dalhousie University, Halifax, NS, Canada

Self Consolidating High Performance FRC: Examples of Structural Applications in Italy  10:30 am
Liberato Ferarra, Assistant Professor, Milan University of Technology, Milan, Italy; Marco Di Prisco, Milan University of Technology; and Nilufer Ozyurt, Bogazici University

Rheology of Fiber-Reinforced Cementitious Materials: Classification and Prediction  11:00 am
Nicolas Roussel, Researcher, Laboratoire Central des Ponts et Chaussées, Paris, France
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Fiber-Reinforced Self-Consolidating Concrete, Part 1 (cont.)

Flexural Toughness of SCC Reinforced with Macro-Synthetic Fibers
11:30 am
Emmanuel K. Attiogbe, Manager of Technical Services, BASF Construction Chemicals, Cleveland, OH; and Van Bui, BASF Construction Chemicals
Wednesday, November 11, 2009
9:00 am – 12:00 pm

How Do You Spice Up a Concrete Bridge to Be Earthquake Resistant?
Sponsored by ACI Committee 341, Earthquake Resistant Bridges

Session Co-Moderators: Mervyn Kowalsky
Associate Professor
North Carolina State University
Raleigh, NC
JoAnn P. Browning
Associate Professor
The University of Kansas
Lawrence, KAS

This session will feature innovative techniques to improve earthquake resistance of concrete bridges. It will focus primarily on high-performance concrete, fiber-reinforced concrete, or other advanced materials with application to seismic design of concrete bridges.

Response of Fiber-Reinforced Concrete Bridge 9:00 am Column Specimens Under Biaxial Cyclic Loading
Ady Aviram, Graduate Research Assistant, University of California Berkeley, Berkeley, CA; and Gustavo Parra-Montesinos, University of Michigan

Damage-Free RC Bridges under Seismic Loads 9:25 am
Mehdi Saiidi, Professor, University of Nevada–Reno, Reno, NV; and Carlos Cruz, University of Nevada–Reno

Performance Evaluation of Seismic Rehabilitation of Bridge Piers with CRFP Composites 9:50 am
Chris Pantelides, Professor, University of Utah, Salt Lake City, UT

Seismic Behavior of New Generation RC Bridge Column Joints 10:15 am
M. Shahria Alam, Assistant Professor, University of British Columbia, Kelowna, BC, Canada

Benefits & Limitations of Using High-Strength Concrete in the Seismic Performance and Design of Hollow Rectangular Bridge Piers 10:40 am
Rigoberto Burgueno, Associate Professor, Michigan State University, East Lansing, MI
Wednesday, November 11, 2009
9:00 am – 12:00 pm

How Do You Spice Up a Concrete Bridge to Be Earthquake Resistant? (cont.)

Seismic Performance of FRP-Encased Engineering Cementitious Composites for Bridge Substructures
Pedram Zohrevand, Professor, Florida International University, Miami, FL; and Amir Mirmiran, Florida International University

Seismic Performance of Precast Post-Tensioned Concrete Filled FRP Tubes
Mohamed ElGawady, Assistant Professor, Washington State University, Pullman, WA
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Materials Science Modeling as a Solution to Concrete Problems, Part 1
Sponsored by ACI Committees 118, Computers, and 236, Material Science

Session Co-Moderators: Jussara Tanesi
Project Manager
Global/FHWA
Vienna, VA

Konstantin Sobolev
Associate Professor
University of Wisconsin – Milwaukee
Milwaukee, WI

This session will aim to demystify modeling, showing that the practitioner can benefit from it. Presentations will be given related to material science modeling and how it can help on solving or preventing problems in the field.

Virtual Testing of Concrete Transport
9:00 am
Dale P. Bentz, Chemical Engineer, National Institute of Standards and Technology, Gaithersburg, MD; Edward Garboczi, Nicos Martys, and Kenneth Snyder, National Institute of Standards and Technology; W. Spencer Guthrie, Brigham Young University; Konstantinos Kyritsis, University of Edinburgh; and Narayanan Neithalath, Clarkson University

Early-Age Cracking: A Case Study in How Materials Modeling Can Improve Concrete Quality
9:30 am
Kyle A. Riding, Assistant Professor, Kansas State University, Manhattan, KS; and Jonathan Poole, Wiss, Janney, Elstner Associates, Inc.

Numerical Analysis of Saw-Cutting: The Influence of Environmental Conditions
10:00 am
Kambiz Raoufi, PhD Student, Purdue University, West Lafayette, IN; and Tommy Nantung and Jason Weiss, Purdue University

Numerical and Experimental Assessment of Unsaturated Fluid Transport in Saw-Cut (Notched) Concrete Elements
10:30 am
Mohammad Pour-Ghaz, Graduate Research Assistant, Purdue University, West Lafayette, IN; Farshad Rajabiipour, University of Hawaii; and Jonathan Couch and Jason Weiss, Purdue University
Wednesday, November 11, 2009  
9:00 am – 12:00 pm

Materials Science Modeling as a Solution to Concrete Problems, Part 1 (cont.)

HIPERPAV III—An Enhanced FHWA Software for Simulating Early-Age Concrete Pavement Behaviors
J. Mauricio Ruiz, Project Manager, The Transtec Group Inc., Austin, TX; and Sabrina Garber, Qinwu Xu, Jason Dick, George Chang, and Robert Rasmussen, The Transtec Group Inc.
Wednesday, November 11, 2009
9:00 am – 12:00 pm

Sulfate Influence Properties of Early Age Concrete SALON C
Sponsored by ACI Committee 231, Properties of Concrete at Early Ages

Session Co-Moderators: Wayne M. Wilson
Senior Technical Service Engineer
Holcim (US) Inc
Suwanee, GA

Jan Olek
Professor
Purdue University
West Lafayette, IN

This session will help educate and inform contractors, engineers, and suppliers on the common variability in sulfate form and solubility and their influence on early age concrete performance.

9:00 am
Anton K. Schindler, Associate Professor, Auburn University, Auburn, AL

Methods Used for Sulfate Form Determination 9:30 am
Alan Gee, Vice President of Research and Support, Heidelberg Technology Center, Doraville, GA; and Gary S. Knight, Heidelberg Technology Center

Effects of pH on Calcium Sulfate Solubility 10:00 am
Charles E. Buchanan Jr., President, ROAN Industries Inc., Bakersville, NC

Effects of Class C Fly Ash and Lignosulfonated Admixtures on Hydration 10:30 am
Andy Naranjo, Transportation Engineer, Texas Department of Transportation, Austin, TX

Experiences in Solving Cement/Sulfate Issues in the Field 11:00 am
William I. Brooks, Regional Technical Services Manager, W.R. Grace, Canton, GA; and Matthew A. Offenberg, W.R. Grace

Cement Sulfate Content Optimized for Concrete Performance 11:30 am
Tim Cost, Senior Technical Service Engineer, Holcim (US) Inc., Canton, MS; and Alf Gardiner, Holcim (US) Inc.
Wednesday, November 11, 2009
12:00 pm – 2:00 pm

✓ International Lunch
$30 U.S. per person
Hosted by the International Committee

Speaker: Khaled Awad
Director of Property Development
Masdar Initiative
Beirut, Lebanon

Topic: Building Green in the Desert

Join other attendees for the International Lunch. Enjoy a special presentation by featured speaker Khaled Awad, Director of Property Development for the Masdar Initiative, who will give a very special presentation on Building Green in the Desert. During this presentation, Awad will discuss how to move from the drawing board to reality in building a sustainable city and will cover the design, goals, and key features of Masdar City, the world’s first carbon-neutral city.

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, November 11, 2009
2:00 pm – 5:00 pm

Corrosion of Post-Tensioned Systems
Sponsored by ACI Committee 222, Corrosion on Metals in Concrete

Session Co-Moderators: Carolyn M. Hansson
Professor
University of Waterloo
Waterloo, ON, Canada

Rubén Salas
President
Gestión y Consultoría Integrada GCI
San José, Costa Rica

Corrosion of in-service post-tensioned structures, such as parking garages, office buildings, and condominiums can be costly to repair and potentially unsafe. This session will address corrosion prevention, condition analysis, remediation and certification issues for post-tensioned systems.

Bonded Post-Tensioned Concrete Corrosion: Myths, 2:00 pm
Misconceptions, and Truths
Randall W. Poston, Principal, WDP and Associates, Austin, TX; and Keith Kesner, WDP and Associates

Corrosion of Bonded Strand in Post-Tensioned Concrete 2:30 pm
Under Fatigue Loading
Andrea J. Schokker, Professor and Head of Civil Engineering, University of Minnesota, Duluth, MN; and Jeffery S. Volz, Missouri University of Science and Technology

The Influence of Grouting Conditions on Chloride-Induced 3:00 pm
Corrosion of Post-Tensioned Concrete Systems
Hiroshi Mutsuyoshi, Professor, Saitama University, Saitama, Japan; and Ha Minh, Saitama University

European Technical Approval: State of the Art Certification 3:30 pm
of Post-Tensioning Systems
Marcel Poser, Chief Executive Officer, BBR VT International, Schwerzenbach, Zürich, Switzerland
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Corrosion of Post-Tensioned Systems (cont.)  SALON A

Evaluation of Potential Techniques for Detection of Corrosion in Bonded Post-Tensioned Structures
Shahzma Jaffer, Post-Doctoral Fellow, University of Waterloo, Waterloo, ON, Canada; and Carolyn M. Hansson, University of Waterloo

Assessment and Mitigation of Corrosion in Post-Tensioned Systems
Garth J. Fallis, Vice President Construction Technologies, Vector Corrosion Technologies, Winnipeg, MB, Canada; and David W. Whitmore, Vector Corrosion Technologies
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Current Trends in Structural Health Monitoring Systems  
SALON B of Concrete Structure, Part 2
Sponsored by ACI Committee 444, Experimental Analysis for Concrete Structures

Session Co-Moderators: 
Faris Malhas
Professor and Chair
University of Dayton
Dayton, OH

Nakin Suksawang
Assistant Professor
Florida International University
Miami, FL

Structural health monitoring (SHM) provides significant advantages in developing a comprehensive and realistic approach for the qualitative assessment and evaluation of concrete structures. SHM also provides the owners with early warning that can prevent devastating failures. This session is planned to discuss: (1) current SHM systems and innovations for the assessment and evaluation of concrete structures; and (2) the need for improved techniques for health monitoring of reinforced concrete structures. Innovative and effective SHM techniques about the response of concrete structures during and following extreme events and other related damage assessment of deteriorated concrete structures will be presented.

Introduction  
2:00 pm
Faris Malhas, Professor and Chair, University of Dayton, Dayton, OH

Health Monitoring of Solid Slabs Repair Systems  
2:10 pm
Faris Malhas, Professor and Chair, University of Dayton, Dayton, OH; and Sameer Affouni, Ministry of Public Works

Monitoring the Performance of Early-Age Bridge Deck Cracking  
2:45 pm
Hani H. Nassif, Associate Professor, Rutgers University, Piscataway, NJ; and Nakin Suksawang, Florida International University

Term Monitoring of Continuity in a Skewed Prestressed Concrete Girder Bridge  
3:10 pm
Ayman Okeil, Assistant Professor, Louisiana State University, Baton Rouge, LA; and Tanvir Hossain and Steve Cai, Louisiana State University
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Current Trends in Structural Health Monitoring Systems
of Concrete Structure, Part 2 (cont.)

Monitoring Performance of Cathodically Protected FRP Repaired Piles
Rajan Sen, Professor, University of South Florida, Tampa, FL; and
Julio Aguilar, Danny Winters, Gray Mullins, and Michael Stokes,
University of South Florida

Structural Health Monitoring of Damaged Prestressed Concrete Girder Bridge Retrofitted with CFRP Composites
Mohsen Issa, Professor, University of Illinois at Chicago, Chicago, IL
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Fiber-Reinforced Self-Consolidating Concrete, Part 2  SALONS G&H
Sponsored by ACI Committees 237, Self-Consolidating Concrete, and 544, Fiber Reinforced Concrete

Session Co-Moderators:  Corina-Maria Aldea
Senior Materials Engineer
AMEC Earth & Environmental
Hamilton, ON, Canada

   Liberato Ferarra
Assistant Professor
Milan University of Technology
Milan, Italy

The objective of this session is to bring together experts from around the world who are active in ACI and TILEM committees related to fiber reinforced self-consolidating concrete (FRSCC) to discuss the state of the art research and practical applications of FRSCC.

Experience With Self-Consolidating High Performance Fiber Reinforced Mortar and Concrete 2:00 pm
Antoine E. Naaman, Professor Emeritus, University of Michigan, Ann Arbor, MI; Wen-Cheng Liao, University of Michigan; and Shih-ho Chao, University of Texas

Performance of FR-SCC for Repair of Concrete Infrastructure 2:25 pm
Kamal H. Khayat, Professor, University of Sherbrooke, Sherbrooke, QC, Canada; and Fodil Kassimi, University of Sherbrooke

Maximum Fiber Content and Passing Ability of Self-Compacting Fiber-Reinforced Concrete 2:50 pm
Steffen Grünewald, Assistant Professor, Delft University of Technology, Delft, Netherlands; and Joost Walraven, Delft University of Technology

Tensile Behavior of Steel Fiber Reinforced Self-Compacting Concrete 3:15 pm
Joaquim A. O. Barros, Associate Professor, University of Minho, Guimarães, Portugal; and Vítor M. C. F. Cunha and José M. Sena-Cruz, University of Minho
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Fiber-Reinforced Self-Consolidating Concrete, Part 2 (cont.)
Prediction of Stress Development and Cracking in Steel Fiber Reinforced Self Compacting Concrete Overlays Due to Restrained Shrinkage
Jonas Carlswärd, Engineer, Betongindustri AB, Kallered, Sweden; and Mats Emborg, Betongindustri AB/Luleå Technical University

Steel Fiber Reinforced Self Compacting Concrete Case Studies
Jeffrey L. Novak, Technical Manager, Bekaert Corporation, Marietta, GA

Design, Analysis, and Implementation of Steel Fiber Reinforced Concrete Elevated Slabs
Barzin Mobasher, Professor, Arizona State University, Tempe, AZ; Xavier Destrée, Xavier Destrée Ltd.; and Chote Soranakom, IMMS Co.
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Materials Science Modeling as a Solution to Concrete Problems, Part 2
Sponsored by ACI Committees 118, Use of Computers, and 236, Material Science of Concrete

Session Co-Moderators: Jussara Tanesi
Project Manager
Global/FHWA
Vienna, VA

Ryan Riehle
President and Chief Executive Officer
Buildways Corporation
Pittsburgh, PA

This session will aim to demystify modeling, showing that the practitioner can benefit from it. Presentations will be given related to material science modeling and how it can help on solving or preventing problems in the field.

Virtual Cement and Concrete Testing Laboratory for Quality Testing and Sustainability of Concrete
Jeffrey Bullard, Materials Research Engineer, National Institute of Standards and Technology, Gaithersburg, MD; Luis Miguel Ordonez Belloc, AIDICO; and Paul Stutzman, Edward Garboczi, and Dale P. Bentz, National Institute of Standards and Technology

Finite Element Analysis of Structures Affected by ASR
Alain Sellier, Professor, Université de Toulouse, Toulouse, Hte Garonne, France; Eric Bourdarot and Etienne Grimal, Electricité de France; and Stephane Multon and Martin Cyr, Université de Toulouse

Modeling of Structures Affected by Alkali Aggregate Reaction
Etienne Grimal, Engineer, Electricité de France, Cedex, France; Alain Sellier and Stephane Multon, Université de Toulouse; and Eric Bourdarot, Electricité de France

A Concept for the Development of Mathematical and Mechanical Models for the Deformations of Composites Under Uniaxial Load
Sandor Popovics, Research Professor, Drexel University, Lansdowne, PA
Wednesday, November 11, 2009
2:00 pm – 5:00 pm

Materials Science Modeling as a Solution to Concrete Problems, Part 2 (cont.)

Development of a Computer Simulation Model for Optimal Packing of Concrete Aggregates
Konstantin Sobolev, Associate Professor, University of Wisconsin–Milwaukee, Milwaukee, WI; and Adil Amirjanov, Near East University
Thursday, November 12, 2009
8:00 am – 5:00 pm

Troubleshooting Concrete Forming and Shoring Seminar

7:30 am registration; coffee and pastries available
ACI Member Rate: $457 U.S.
Nonmember Rate: $597 U.S.
Full-Time Student: $125 U.S.

Speakers: Kim D. Basham
Senior Structural Engineer
KB Engineering LLC
Cheyenne, WY

Larry Erps
Senior Project Manager
Ceco Concrete Construction
Tempe, AZ

Contractors and engineers will learn tips and traps associated with form construction stripping and reshoring, and work through calculations for a reshoring problem. Topics discussed include: forming systems, forming economics, loads and pressures, form removal and reshoring, tolerances and finishes, and formed surface defects.

=separate fee required
# ACI Board Committees and Chairs

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**ACI Convention Committee**
- Kari L. Yuers, Chair
- Katie Bartojay
- Joseph J. Biernacki
- Ramon L. Carrasquillo
  - James H. Hanson
  - Cecil L. Jones
  - Carlos A. Lazaro
  - William J. Lyons
  - Kirk L. McDonald
  - Debrethann R. Orsak
  - Aimee Pergalsky
  - William E. Rushing Jr.
  - David H. Sanders
  - Michael J. Schneider
  - Tanya K. Schnier
  - Lawrence H. Taber
- Renée J. Lewis, Staff Liaison
Session Attendance Tracking Form for the ACI Fall 2009 Convention
New Orleans, LA • November 8-12, 2009

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, a 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.

TUESDAY, NOVEMBER 10, 2009
9:00 AM-12:00 PM 3 PDH
- Contractors’ Day Session, Part 1 (ACI Louisiana Chapter)
- Planning for Successful Concrete Projects (870)
- Design Methods for Non-Traditional ICF’s (560)
- Temperature Effect on Concrete Performance (236)
- Symposium Honoring Thomas T. C. Hsu, Part 3: Five Decades of Progress in Shear and Torsion (445)

2:00 PM-5:00 PM 3 PDH
- Open Paper Session (123)
- Contractors’ Day Session, Part 2 (ACI Louisiana Chapter)
- Symposium Honoring Thomas T. Hsu, Part 4: Recent Advances in Shear and Torsion of Concrete Bridges (343)
- Can this Concrete Self-Consolidate? (337)

WEDNESDAY, NOVEMBER 11, 2009
9:00 AM-12:00 PM 3 PDH
- Sulfate Influence on Properties of Early Age Concrete (313)
- Materials Science Modeling as a Solution to Concrete Problems, Part 1 (236 & 118)
- Current Trends in Structural Health Monitoring Systems of Concrete Structures, Part 1 (446)
- Fiber Reinforced Self-Consolidating Concrete, Part 1 (544 & 237)
- How do you Spice up a Concrete Bridge to be Earthquake Resistant? (341)

2:00 PM-5:00 PM 3 PDH
- Materials Science Modeling as a Solution to Concrete Problems, Part 2 (236 & 118)
- Current Trends in Structural Health Monitoring Systems of Concrete Structures, Part 2 (446)
- Fiber Reinforced Self-Consolidating Concrete, Part 2 (544 & 237)
- Corrosion of Post-Tensioned Systems (222)

Enter your name and address here

DAILY PDH TOTALS AVAILABLE
Total Completed on Sunday, 11/8/09 ______
Total Completed on Monday, 11/9/09 ______
Total Completed on Tuesday, 11/10/09 ______
Total Completed on Wednesday, 11/11/09 ______
Total Number of PDHs Completed ______
Thank you for attending the ACI Fall 2009 Convention.

See you in Chicago!

Future ACI Conventions

Spring 2010
Xtreme Concrete
March 21-25, 2010
Sheraton
Chicago, IL

Fall 2010
Green Concrete in the Steel City
October 24-28, 2010
Westin & David L. Lawrence Convention Center
Pittsburgh, PA