



*ACI
Fall 2009
Convention
Program*



*Spice up your
Concrete*

**New Orleans Marriott
New Orleans, Louisiana
November 8-12, 2009**

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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

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Thomas D. Verti

Executive Vice President

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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,

A handwritten signature in black ink, appearing to read 'Florian G. Barth'. The signature is stylized and somewhat abstract, with a large, sweeping initial 'F' and 'B'.

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,

A handwritten signature in black ink, appearing to read "Bobby Jindal", is positioned below the closing text.

Governor Bobby Jindal
State of Louisiana

CITY OF NEW ORLEANS

C. RAY NAGIN, MAYOR



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,

A handwritten signature in black ink, appearing to read 'C. Ray Nagin'. The signature is stylized and fluid, with a large loop at the end.

C. Ray Nagin
Mayor

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



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

ACS Manufacturing Corporation



Buzzi Unicem



ALJANS

Ash Grove Cement Company



CANTERA
CONCRETE COMPANY
"Measured Quality"

Cantera Concrete Company



Ashford Formula



Baker Concrete
Construction, Inc.



CECO



CHRYSO-ProMix Technologies



The Chemical Company

BASF Admixtures, Inc.



Commercial Contracting
Corporation



BCS

Concrete
Engineering
Specialists



Boral Material Technologies, Inc.

Bray Structures

Concrete Engineering
Specialists

ACI Sustaining Members



Concrete Reinforcing
Steel Institute



CTL Group



Dayton Superior



e-construct



EUCLID CHEMICAL

The Euclid Chemical Co.

Expanded Shale, Clay and Slate Institute



Rotary Kiln Produced Lightweight Aggregate

Expanded Shale, Clay &
Slate Institute

FGC, Inc.



Fibercon International, Inc.

Francis Harvey & Sons



FUTURE TECH CONSULTANTS
Construction Materials Engineering,
Inspection & Testing Services

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

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

Ruentex Group



Scofield



Seretta Construction, Inc.



Sika Corp.



S. K. Ghosh Associates, Inc.

ACI Sustaining Members



Spurlino Materials



Structural Group



Structural Services, Inc.



Triad Engineering, Inc.



Tru Wall Concrete, Inc.



UNIBETON
READY MIX

Unibeton Ready Mix



Universal Concrete
Products, Ltd., Co.



WACKER
NEUSON

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.
American Engineering Testing	N-Y Associates, 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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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 Kapisis, 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

General Information

ACI Registration

ACADIA/BISSONET

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

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

Name Badges

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

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

Attention ACI Attendees!

First-time convention attendees have a “Convention #1” ribbon on their name badge. Please welcome them to the convention!

Schedule Changes

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.

Saturday	Soda:	2:00 pm – 5:00 pm
Sunday-Tuesday	Coffee:	7:00 am – 10:00 am
	Soda:	12:00 pm – 3:00 pm
Wednesday	Coffee:	7:00 am – 10:00 am

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.airport-shuttleneworleans.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

BONAPARTE

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

OUTSIDE ACADIA/BISSONET

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!

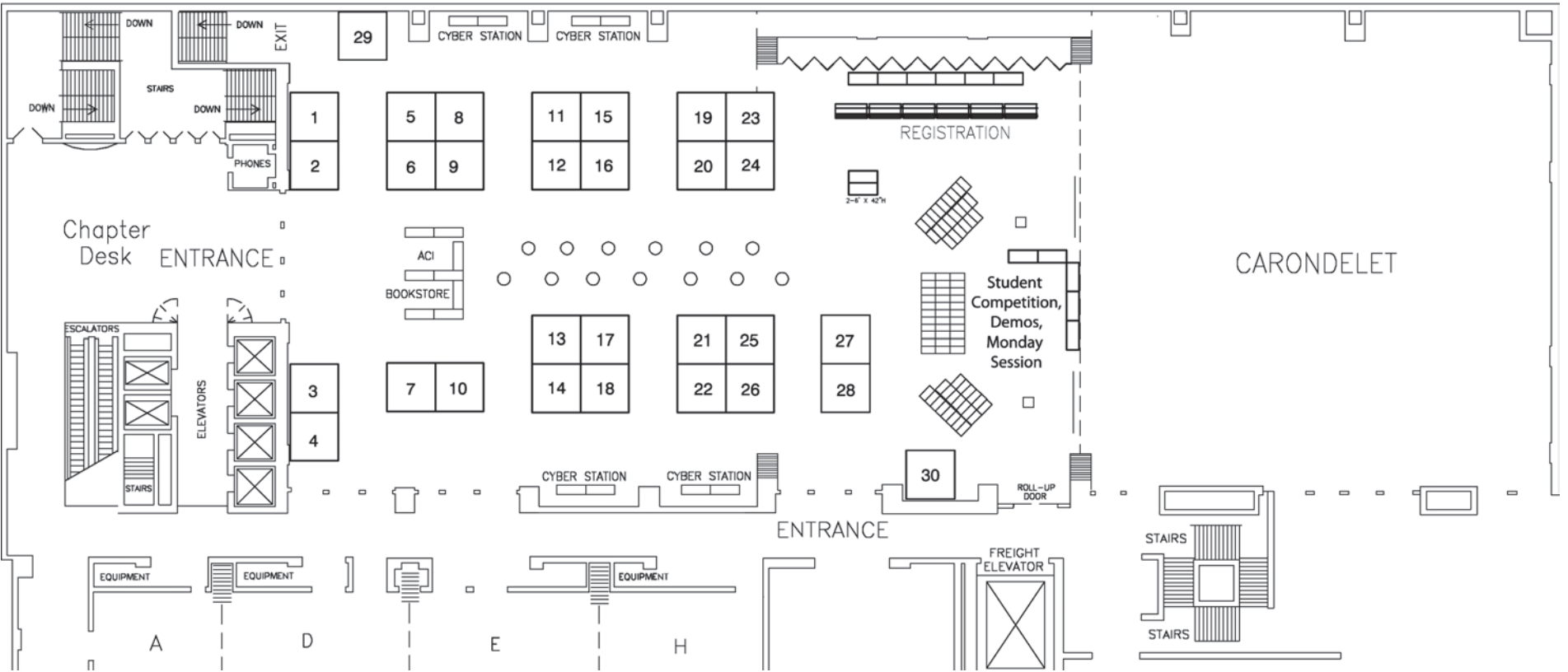


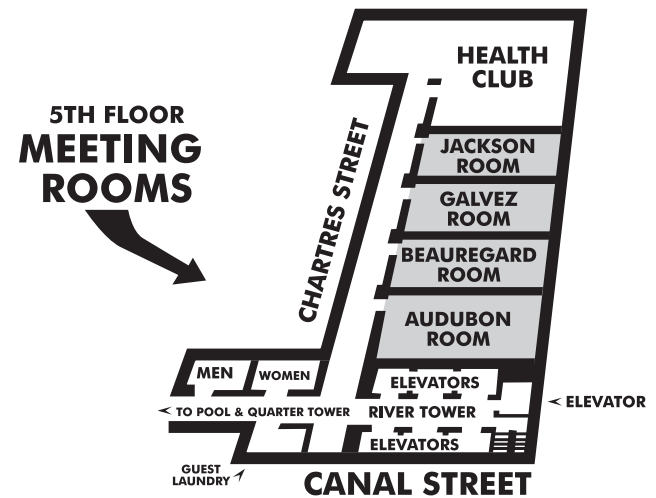
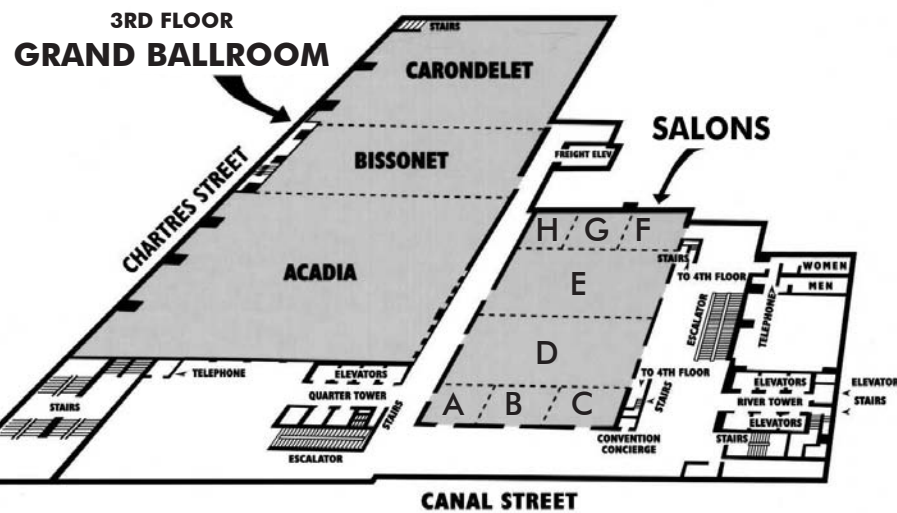
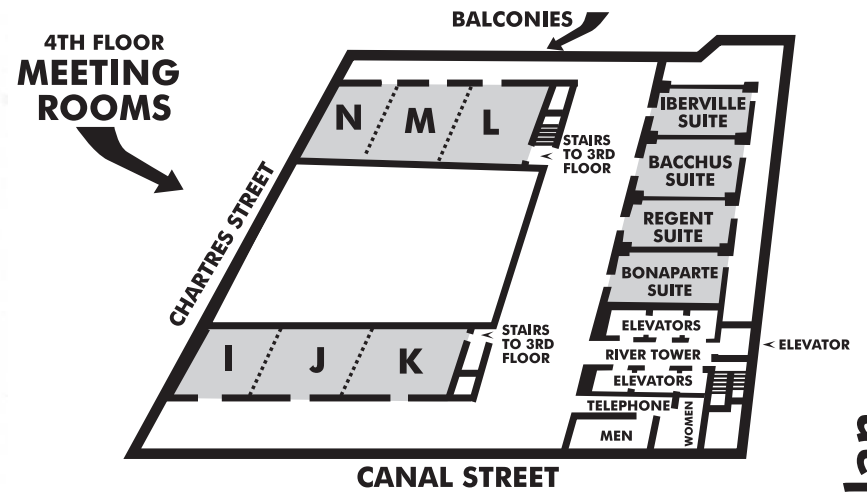
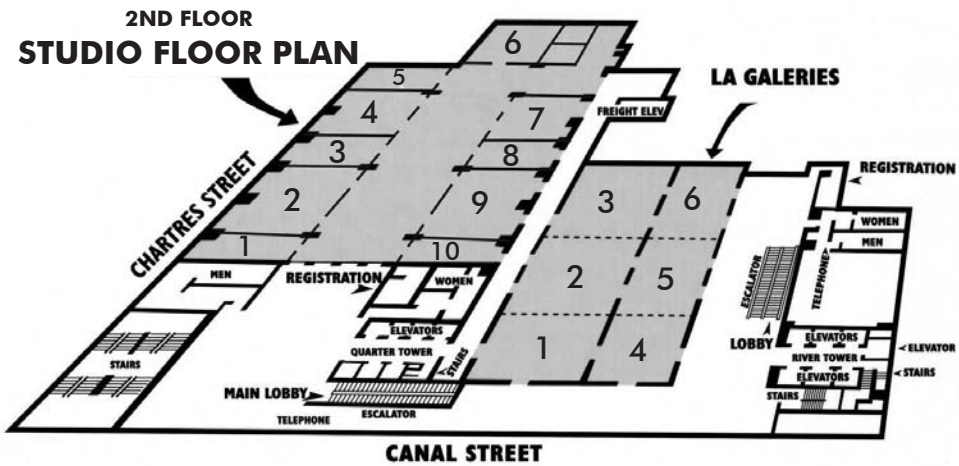
Where's That Meeting Room?

Room Name	Location
ACADIA	3 rd Floor
AUDOBRON	5 th Floor
BACCHUS	4 th Floor
BALCONY I	4 th Floor
BALCONY J	4 th Floor
BALCONY K	4 th Floor
BALCONY L	4 th Floor
BALCONY M	4 th Floor
BALCONY N	4 th Floor
BEAUREGARD	5 th Floor
BISSONET	3 rd Floor
BOARDROOM	Lobby Level
BONAPARTE	4 th Floor
CARONDELET	3 rd Floor
GALVEZ	5 th Floor
IBERVILLE	4 th Floor
JACKSON	5 th Floor
LAFAYETTE SUITE	41 st Floor
LA GALERIE 1	2 nd Floor
LA GALERIE 2	2 nd Floor
LA GALERIE 3	2 nd Floor
LA GALERIE 4	2 nd Floor
LA GALERIE 5	2 nd Floor
LA GALERIE 6	2 nd Floor
NAPOLEON SUITE	41 st Floor
REGENT	4 th Floor
SALON A	3 rd Floor
SALON B	3 rd Floor
SALON C	3 rd Floor
SALON D	3 rd Floor
SALON E	3 rd Floor
SALON F	3 rd Floor
SALON G	3 rd Floor
SALON H	3 rd Floor
ST. CHARLES SUITE	41 st Floor
STUDIO 1	2 nd Floor
STUDIO 2	2 nd Floor
STUDIO 3	2 nd Floor
STUDIO 4	2 nd Floor
STUDIO 5	2 nd Floor
STUDIO 6	2 nd Floor
STUDIO 7	2 nd Floor
STUDIO 8	2 nd Floor
STUDIO 9	2 nd Floor
STUDIO 10	2 nd Floor

New Orleans Marriott – Exhibitor Area

Acadia—Bissonet, 3rd floor





New Orleans Marriott Floorplan

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.*

Exhibitors

Exhibitor listing as of 10/8/09

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

Germann Instruments is the leader in nondestructive testing (NDT) of concrete structures. Their cutting-edge innovative product line includes: advance NDT Equipment for concrete testing. For Structural Integrity—Impact-Echo, Mash, MIRA/Eyecon 3-D Shear Wave Systems. Durability—Service Life, Rheometer, PROOVEit, Chloride & Profile. Freeze-thaw—EVA Analyzer & RapidAir. Fast-track construction—LOK-TEST, Coma-Meter. Corrosion survey—GalvaPulse, RapiCor. Repair quality—Bond-Test, CorroEye. Visit www.germann.org for additional information.

**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.

Exhibitors

Exhibitor listing as of 10/8/09

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

The Silica Fume Association provides high-performance concrete technology and practical know-how to the concrete construction industry. Visit the Silica Fume Association exhibit for the latest free HPC software tools, the Silica Fume Association Manual and Contractor videos, and the new Life 365 v2.0 Service-Life Model. Learn more about the Silica Fume Association by going to www.silicafume.org.

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 managements 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

SPECIAL EVENTS

Special Events

Saturday, November 7, 2009

Concrete Sustainability Forum

SALON D

1:00 pm – 5:00 pm

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 **5:15 pm – 6:30 pm**

CARONDELET

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 **6:30 pm – 7:30 pm**

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

✓ 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

Monday, November 9, 2009

✓ Student Lunch

SALONS D&E

12:00 pm – 2:00 pm

\$27 U.S. per person; FREE to students who preregistered

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

ACADIA/BISSONET

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 Prove-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

ACADIA/BISSONET

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

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.

✓ = separate fee required

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.

✓ = separate fee required

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.

✓=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.

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

ST. CHARLES SUITE

3:30 pm – 5:00 pm

Please join Mrs. Lori Barth for afternoon tea. This is a wonderful opportunity to get to know other registered guests and enjoy a refreshing break! A guest name badge is required to attend this event.

✓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

DAILY PROGRAM

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
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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
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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
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8:30 am – 11:00 am

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

MEMC	Membership	BALCONY I
315-B	Detailing-Constructibility	JACKSON
350-C	Env Str-Reinf & Devel	STUDIO 10
408	Development and Splicing	STUDIO 9
440-H	FRP-Reinforced-Concrete	STUDIO 2

8:30 am – 12:00 pm

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

347	Formwork	STUDIO 7
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9:00 am – 5:00 pm

376	RLG Containment Structures M2	STUDIO 4
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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.)

9:30 am – 10:30 am

546-B Repair-Material Selection Guide BALCONY J

9:30 am – 11:00 am

341-A Earthquake 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 Earthquake 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

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

HTC	Hot Topic	STUDIO 5
221	Aggregates	BALCONY J
335	Composite Hybrid	BALCONY I
350-SC	Env Str-Steering Comm	STUDIO 3
374-TG2	Protocol for Testing RC Structural Elements	STUDIO 10
548-C	Structural Polymer Design	BALCONY L

11:30 am – 3:30 pm

301-D	Spec-Lightweight & Massive Concrete	LA GALERIE 4
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11:30 am – 5:00 pm

562	Eval, Repair & Rehab	SALON E
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12:00 pm – 5:00 pm

	Student Concrete Cube Competition	ACADIA/BISSONET
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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
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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
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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-Shrink 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	Earthquake 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
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1:30 pm – 5:00 pm

350-E	Env Str-Precast/Prestressed	JACKSON
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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
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2:00 pm – 5:00 pm *Sessions*

Emerging Technologies in Civil Infrastructure
Application 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 Cert	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 SALON F

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

Things You Need to Know About the
Workability of Concrete SALON C

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

The Leading Edge of Pervious Concrete,
Part 1 SALONS G&H

Simple Tools and Gadgets which Help
Solve Your Problems ACADIA/BISSONET

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.)

10:00 am – 11:30 am

E 804	Educational Awards Nomination Committee	IBERVILLE
440-I	FRP-Prestressed Concrete	BALCONY M

10:00 am – 12:00 pm

445-D	Shear & Torsn - Database	BACCHUS
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10:00 am – 1:00 pm

207	Mass Concrete	STUDIO 10
216	Fire Resistance	STUDIO 9
232-A	Fly Ash-Use of Nat Pozzolans	BALCONY K
343	Bridge Design	NAPOLEON
349-A&B	Nuclear Str-Design & Materials M1	STUDIO 4

10:30 am – 12:00 pm

124	Aesthetics	BALCONY N
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10:30 am – 6:30 pm

301	Specifications M3	STUDIO 7
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11:00 am – 12:30 pm

506-E	Shotcreting-Specifications	JACKSON
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11:00 am – 1:00 pm

548-B	Adhesives in Concrete	STUDIO 6
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11:00 am – 2:00 pm

225	Hydraulic Cements	REGENT
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11:30 am – 1:00 pm

201-D	Durability-Oversight Committee	IBERVILLE
304	Measuring/Mix/Trans/Placing	STUDIO 8
346	CIP Pipe	BOARDROOM
544-A	FRC-Production & Applications	LA GALERIE 3

11:30 am – 2:00 pm

314	Simplified Design Buildings	LA GALERIE 6
441	Columns	STUDIO 2
447	Finite Element Analysis	STUDIO 5

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

SALON C

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.

✓ Separate fee required

TG = Task Group

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
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8:30 am – 12:30 pm

349-A&B	Nuclear Structures-Design & Materials M2	LA GALERIE 6
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8:30 am – 3:30 pm

350-F	Env Str-Seismic	STUDIO 3
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9:00 am – 10:30 am

122	Thermal Properties	LAFAYETTE
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9:00 am – 11:30 am

IC	International Committee	STUDIO 1
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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

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 – 1:00 pm

ITG-8	Perform Criteria for Conc Matrls	BALCONY J
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9:00 am – 2:00 pm

	✓Mississippi River Tour	DEPART MAIN LOBBY
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10:00 am – 11:30 am

C 630	Construction Inspector Cert	STUDIO 10
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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
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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

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.

✓ Separate fee required

TG = Task Group

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
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2:00 pm – 3:30 pm

234	Silica Fume	STUDIO 2
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

DEPART MAIN LOBBY

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

NUMERIC

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
ACI 318/ASCE7	ACI 318/ASCE 7 Coordination	Mon	2:00 pm-3:30 pm	JACKSON
ACI/ASCE	ACI/ASCE Coordination	Wed	7:00 am-8:30 am	STUDIO 7
ACIFdn	ACI Foundation	Wed	9:00 am-12:00 pm	STUDIO 5
BAC-SD	Board Advisory Committee on Sustainable Devlp	Sun	1:00 pm-4:00 pm	LA GALERIE 2
BOD	Board of Direction	Thu	10:00 am-5:00 pm	LA GALERIES 4&5
C 601-B	Concrete Quality Technical Mgr	Wed	10:00 am-12:30 pm	STUDIO 10
C 610	Field Technician Cert	Mon	8:30 am-11:30 am	LA GALERIE 3
C 620	Laboratory Tech Cert	Tue	8:30 am-10:00 am	STUDIO 10
C 630	Construction Inspector Cert	Tue	10:00 am-11:30 am	STUDIO 10
C 631	Conc Transportation Const Insp	Mon	1:00 pm-2:30 pm	NAPOLEON
C 640	Craftsman Cert	Tue	12:30 pm-2:00 pm	LA GALERIE 6
C 650	Tilt-Up Constructor Cert	Sun	2:00 pm-5:00 pm	REGENT
C 660	Shotcrete Nozzleman Cert	Mon	1:00 pm-3:00 pm	BALCONY J
CAC	Chapter Activities	Mon	2:30 pm-5:00 pm	LAFAYETTE
CC	Convention Committee M2	Tue	3:00 pm-5:00 pm	BALCONY I
CLC	Construction Liaison	Sun	8:00 am-10:30 am	LA GALERIE 1
CLGE	Collegiate Concrete Council	Sun	4:00 pm-5:00 pm	LA GALERIE 3
CPC	Certification Programs	Tue	2:00 pm-5:00 pm	STUDIO 1
CRC	Concrete Research Council	Tue	11:30 am-1:00 pm	LA GALERIE 2
E 601	Seminar Oversight Committee	Sun	3:00 pm-5:00 pm	LAFAYETTE
E 701	Materials for Concrete Construction	Sun	10:00 am-11:30 am	BALCONY L
E 702	Designing Concrete Structures	Mon	5:00 pm-6:30 pm	STUDIO 3
E 703	Concrete Construction Practices	Mon	5:00 pm-7:00 pm	IBERVILLE

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
E 706	Repair Application Procedures	Sun	8:00 am-10:00 am	STUDIO 3
E 801	Student Activities	Sun	8:00 am-10:00 am	LA GALERIE 2
E 802	Teaching Methods and Educational Materials	Mon	8:30 am-10:00 am	STUDIO 4
E 804	Educational Awards Nomination Committee	Mon	10:00 am-11:30 am	IBERVILLE
EAC	Educational Activities M1	Sat	1:00 pm-5:00 pm	SALON C
EAC	Educational Activities M2	Tue	8:00 am-12:00 pm	JACKSON
HTC	Hot Topic	Sun	11:30 am-1:00 pm	STUDIO 5
IC	International Committee	Tue	9:00 am-11:30 am	STUDIO 1
IC-Conf	International Conferences	Mon	7:00 am-8:30 am	IBERVILLE
IC-Part	International Partnerships & Publications	Sun	10:00 am-11:30 am	STUDIO 3
IJBRC	Intl Joints & Bearings Research	Tue	8:30 am-10:30 am	STUDIO 6
Intl-Cert	International-Certification	Sun	3:30 pm-5:00 pm	BACCHUS
ISO/TC 71	ISO/TC 71 Advisory Cmte	Sun	1:00 pm-2:30 pm	BALCONY I
ITG-6	High-Strength Steel Reinforcement	Mon	2:00 pm-6:00 pm	BALCONY I
ITG-8	Perform Criteria for Conc Matrls	Tue	9:00 am-1:00 pm	BALCONY J
MEMC	Membership	Sun	8:30 am-11:30 am	BALCONY I
MKTC	Marketing	Mon	2:00 pm-5:00 pm	BALCONY N
PUBC	Publications	Mon	8:30 am-10:30 am	BALCONY N
RCC	Responsibility	Sun	2:00 pm-5:00 pm	BALCONY K
SY PAC	Student and Young Professional Activities	Wed	7:00 am-8:30 am	STUDIO 9
TAC	Technical Activities M1	Fri	6:30 pm-9:00 pm	SALON B
TAC	Technical Activities M2	Sat	7:00 am-6:00 pm	BALCONY K
TAC	Technical Activities M3	Sun	7:00 am-2:00 pm	SALON D
TAC-RG1	TAC Review Group 1	Sun	8:00 am-11:00 am	IBERVILLE
TAC-RG2	TAC Review Group 2	Sun	8:00 am-11:00 am	BACCHUS
TAC-RG3	TAC Review Group 3	Sun	8:00 am-11:00 am	REGENT

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
TAC/ICRI	TAC & International Concrete Repair Institute	Sun	2:00 pm-3:00 pm	STUDIO 6
TAC/SDC	TAC & Strategic Development Council	Sun	7:00 am-8:00 am	SALON E
TRRC	TAC Repair & Rehab	Tue	9:00 am-12:00 pm	BALCONY N
TSC	TAC Specifications	Wed	7:00 am-10:00 am	STUDIO 10
TTTC	TAC Technology Transfer	Tue	7:00 am-8:30 am	LA GALERIE 6
117	Tolerances	Tue	8:30 am- 12:00 pm	LA GALERIE 3
118	Computers	Mon	8:30 am-10:00 am	IBERVILLE
120	History	Tue	1:30 pm- 3:00 pm	BALCONY M
121	Quality Assurance	Sun	3:00 pm-5:00 pm	BALCONY N
122	Thermal Properties	Tue	9:00 am-10:30 am	LAFAYETTE
123	Research	Sun	4:00 pm- 5:00 pm	LA GALERIE 2
124	Aesthetics	Mon	10:30 am-12:00 pm	BALCONY N
130	Sustainability	Mon	3:00 pm-5:00 pm	LA GALERIE 3
130-A	Materials	Mon	8:30 am-10:00 am	STUDIO 7
130-B	Production/ Transport/ Construction	Mon	5:00 pm-6:00 pm	STUDIO 6
130-C	Structures in Service	Mon	1:00 pm-2:00 pm	BALCONY K
130-D	Rating Systems/ Sustainability Tools	Tue	2:00 pm-4:00 pm	SALON D
130-E	Design/ Specifications/ Codes/Regulations	Tue	1:30 pm-3:30 pm	STUDIO 6
130-F	Social Issues	Sun	12:30 pm-2:00 pm	STUDIO 7
130-G	Education/ Certification	Tue	7:30 am- 9:00 am	STUDIO 1
131	BIM	Tue	3:00 pm-6:00 pm	BALCONY N
201	Durability	Tue	8:30 am-11:30 am	LA GALERIES 4&5
201-A	Durability-Sulfate Attack	Sun	3:00 pm-5:00 pm	BALCONY J
201-C	Durability-Condition Report	Tue	1:00 pm-3:00 pm	BOARDROOM
201-D	Durability Oversight Committee	Mon	11:30 am-1:00 pm	IBERVILLE
201-E	Salt Weathering/ Salt Attack	Mon	4:00 pm-6:00 pm	NAPOLEON
207	Mass Concrete	Mon	10:00 am-1:00 pm	STUDIO 10
209	Creep & Shrinkage	Mon	8:30 am-11:30 am	STUDIO 5
209-A	Statistic Procedures	Sun	2:00 pm-3:30 pm	BOARDROOM

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
211	Proportioning	Wed	8:30 am-11:30 am	SALON D
211-A	Proportioning-Editorial	Tue	10:00 am-12:00 pm	BACCHUS
211-C	Proportioning-No Slump	Tue	8:00 am-10:00 am	BOARDROOM
211-E	Proportioning-Evaluation	Tue	11:30 am-1:00 pm	BALCONY I
211-F	Proportioning-Submittals	Tue	2:00 pm-4:00 pm	BACCHUS
211-L	Assessing Aggregate Gradation	Tue	1:00 pm-3:00 pm	IBERVILLE
211-M	Proportioning-Aggregate-Packing	Tue	3:00 pm-5:00 pm	IBERVILLE
212	Chemical Admixtures	Mon	2:00 pm-6:30 pm	STUDIO 10
213	Lightweight	Tue	1:30 pm-3:00 pm	BALCONY N
213-TG	Lightweight-Editorial TG	Tue	11:30 am-1:00 pm	LAFAYETTE
214	Strength Tests	Mon	3:30 pm-5:00 pm	BALCONY J
215	Fatigue	Sun	2:00 pm-4:00 pm	LA GALERIE 3
216	Fire Resistance	Mon	10:00 am-1:00 pm	STUDIO 9
221	Aggregates	Sun	11:30 am-1:00 pm	BALCONY J
222	Corrosion	Tue	2:00 pm-5:00 pm	LA GALERIE 3
223	Shrinkage Compensating	Tue	2:00 pm-5:00 pm	BALCONY K
223-C	Shr Compensating-Constr	Tue	1:00 pm-2:00 pm	STUDIO 1
223-D	Shr Compensating-Non-Reinforced Concrete or Mortar	Tue	11:30 am-1:00 pm	IBERVILLE
224	Cracking	Sun	2:30 pm-5:00 pm	BALCONY I
225	Hydraulic Cements	Mon	11:00 am-2:00 pm	REGENT
228	Nondestructive Testing	Sun	10:00 am-1:00 pm	STUDIO 6
228-TG	Nondestructive Testing TG	Mon	1:00 pm-2:30 pm	BACCHUS
229	Controlled Low Strength	Tue	2:00 pm-5:00 pm	STUDIO 4
230	Soil Cement	Tue	8:00 am-10:00 am	BACCHUS
231	Early Age	Mon	2:00 pm-3:30 pm	STUDIO 5
232	Fly Ash & Natural Pozzolans	Mon	2:00 pm-5:00 pm	STUDIO 9
232-A	Fly Ash-Use of Nat Pozzolans	Mon	10:00 am-1:00 pm	BALCONY K
233	Slag Cement	Tue	2:00 pm-6:00 pm	STUDIO 7
234	Silica Fume	Tue	2:00 pm-3:30 pm	STUDIO 2

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
235	Electronic Data Exchange	Tue	2:00 pm-5:00 pm	LAFAYETTE
236	Material Science	Mon	4:30 pm-5:30 pm	LA GALERIE 2
236-B	Material Science-Transport Mechanisms	Sun	2:00 pm-3:30 pm	BACCHUS
236-D	Material Science-Nanotechnology of Concrete M1	Sun	3:30 pm-5:00 pm	LA GALERIE 4
236-D	Material Science-Nanotechnology of Concrete M2	Tue	1:00 pm-3:00 pm	NAPOLEON
237	Self-Consolidating Concrete	Mon	1:00 pm-4:00 pm	LA GALERIE 2
238	Workability of Fresh Concrete	Tue	7:00 am-9:00 am	BALCONY N
301	Specifications M1	Sat	1:00 pm-6:00 pm	SALON E
301	Specifications M2	Sun	8:30 am-12:00 pm	LA GALERIE 5
301	Specifications M3	Mon	10:30 am-6:30 pm	STUDIO 7
301-A	SpecGen Req, Definitions, & Tolerances	Sun	1:00 pm-5:00 pm	STUDIO 10
301-B	Spec-Formwork & Reinforcement	Mon	8:30 am-1:00 pm	BALCONY J
301-C	Spec-Placing Consolidating & Curing	Sun	1:00 pm-5:00 pm	BALCONY L
301-D	Spec-Lightweight & Massive Concrete	Sun	11:30 am-3:30 pm	LA GALERIE 4
301-E	Spec-Prestressed Concrete	Sun	1:00 pm-5:00 pm	STUDIO 1
301-F	Spec-Precast Concrete Panels	Sun	10:00 am-3:00 pm	BALCONY N
301-G	Spec-Shrink Comp Conc & Ind Floor Slabs	Sun	1:00 pm-5:00 pm	STUDIO 9
301-H	Spec-Tilt-Up Constr & Arch Conc	Sun	11:00 am-3:00 pm	LAFAYETTE
301-SC	Spec-Steering Committee	Sun	7:00 am-8:00 am	STUDIO 10
302	Floor Construction	Mon	8:30 am-1:00 pm	LA GALERIES 4&5
303	Architectural CIP	Wed	8:30 am-11:30 am	STUDIO 7
304	Measuring/Mix/Trans/Placing	Mon	11:30 am-1:00 pm	STUDIO 8
305	Hot Weather	Sun	1:00 pm-5:00 pm	LA GALERIE 5
306	Cold Weather	Tue	8:30 am-11:30 am	BALCONY I
307	Chimneys	Mon	2:00 pm-5:00 pm	IBERVILLE
308	Curing	Wed	2:00 pm-5:00 pm	STUDIO 7

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
308-213	Guide on Internal Curing	Tue	4:30 pm-6:00 pm	STUDIO 2
308-A	Curing-Guide	Wed	10:30 am-1:00 pm	STUDIO 3
308-B	Curing-Specifications	Wed	8:00 am-10:30 am	STUDIO 3
309	Consolidation	Sun	2:00 pm-5:00 pm	BALCONY M
310	Decorative Concrete	Tue	2:00 pm-5:00 pm	LA GALERIE 1
311	Inspection	Mon	8:30 am-11:30 am	STUDIO 8
314	Simplified Design Buildings	Mon	11:30 am-2:00 pm	LA GALERIE 6
315	Detailing	Sun	2:00 pm-5:00 pm	STUDIO 7
315-B	Detailing Constructibility	Sun	8:30 am-11:30 am	JACKSON
318	Building Code M1	Tue	8:30 am-10:30 am	STUDIOS 8&9
318	Building Code M2	Wed	2:30 pm-6:30 pm	STUDIOS 8&9
318-A	General Concrete Constr	Tue	1:00 pm-6:30 pm	STUDIO 5
318-B	Reinforcement & Development M1	Mon	2:00 pm-5:00 pm	REGENT
318-B	Reinforcement & Development M2	Wed	8:00 am-1:30 pm	STUDIO 4
318-C	Serviceability/ Safety	Tue	1:00 pm-6:30 pm	BALCONY J
318-D	Flexure & Axial Loads	Wed	8:00 am-1:30 pm	BALCONY L
318-E	Shear & Torsion	Wed	8:00 am-1:30 pm	BALCONY M
318-G	Prestressed Precast	Wed	8:00 am-1:30 pm	STUDIO 6
318-H	Seismic Provisions	Tue	1:00 pm-6:30 pm	LA GALERIE 2
318-L	International Liaison	Mon	3:30 pm-5:00 pm	STUDIO 5
318-R	Code Reorganization	Tue	1:00 pm-6:30 pm	LA GALERIE 4
318-S	Spanish Translation	Mon	2:00 pm-3:30 pm	STUDIO 4
318-TGF	TGF-Foundation	Mon	5:00 pm-6:30 pm	BACCHUS
325	Pavements	Tue	3:30 pm-5:30 pm	STUDIO 6
325-A	Pavements-Design	Tue	8:00 am-10:30 am	LA GALERIE 1
325-C	Pavements-Prestressed and Precast	Tue	10:30 am-12:00 pm	LA GALERIE 1
325-D	Proportioning for Pavements	Tue	1:00 pm-2:00 pm	LA GALERIE 1
325-E	Accelerated Paving	Tue	2:00 pm-3:30 pm	JACKSON
327	RCC Pavements	Tue	10:00 am-12:00 pm	NAPOLEON

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
330	Parking Lots & Site Paving	Wed	1:00 pm-4:00 pm	BALCONY I
330-TG	Parking Lots & Site Paving TG	Wed	8:30 am-11:30 am	BALCONY I
332	Residential Concrete	Tue	2:00 pm-5:00 pm	LA GALERIE 6
332-B&C	Residential Concrete Sub B&C	Tue	8:00 am-11:00 am	STUDIO 2
332-D&E	Residential Concrete Sub D&E	Tue	8:00 am-11:00 am	STUDIO 7
332-F	Residential Concrete-Slabs	Tue	11:00 am-2:00 pm	STUDIO 7
334	Shells	Mon	5:00 pm-6:00 pm	STUDIO 5
335	Composite Hybrid	Sun	11:30 am-1:00 pm	BALCONY I
336	Footings	Sun	1:00 pm-5:00 pm	STUDIO 2
341	Earthquake-Resistant Bridges	Sun	3:00 pm-5:00 pm	LA GALERIE 6
341-A	Equake Res Brdgs-Columns	Sun	9:30 am-11:00 am	LA GALERIE 6
341-B	Equake Res Brdgs-Pier Walls	Sun	11:00 am-12:30 pm	LA GALERIE 6
341-C	Equake Res Brdgs-Retrofit	Sun	1:30 pm-3:00 pm	LA GALERIE 6
341-D	Perf Based Seismic Design	Sun	8:00 am-9:30 am	LA GALERIE 6
342	Bridge Evaluation	Sun	8:30 am-10:00 am	STUDIO 6
343	Bridge Design	Mon	10:00 am-1:00 pm	NAPOLEON
343-A	Design	Mon	9:30 am-10:00 am	BACCHUS
343-B	Bridge Deck Design	Mon	8:30 am-9:30 am	BACCHUS
345	Bridge Construction	Sun	1:00 pm-3:00 pm	BALCONY J
346	CIP Pipe	Mon	11:30 am-1:00 pm	BOARDROOM
347	Formwork	Sun	8:30 am-12:30 pm	STUDIO 7
348	Safety	Tue	8:30 am-11:30 am	STUDIO 5
349	Nuclear Structures	Tue	2:00 pm-5:00 pm	STUDIOS 8&9
349-C	Nuclear Str-Anchorage	Mon	2:00 pm-5:00 pm	STUDIO 2
349-A&B	Nuclear Structures-Design & Materials M1	Mon	10:00 am-1:00 pm	STUDIO 4
349-A&B	Nuclear Structures-Design & Materials M2	Tue	8:30 am-12:30 pm	LA GALERIE 6
350	Environmental Structures	Wed	8:30 am-6:30 pm	STUDIOS 1&2
350-A	Env Str-General & Concrete	Tue	11:30 am-3:30 pm	STUDIO 10

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
350-B	Env Str-Durability	Mon	8:30 am-1:00 pm	LAFAYETTE
350-C	Env Str-Reinf & Devel	Sun	8:30 am-11:30 am	STUDIO 10
350-D	Env Str-Structural	Mon	8:30 am-6:30 pm	STUDIO 1
350-E	Env Str-Precast/ Prestressed	Sun	1:30 pm-5:00 pm	JACKSON
350-F	Env Str-Seismic	Tue	8:30 am-3:30 pm	STUDIO 3
350-G&K	Env Str-Tightness Testing/Haz Mat	Tue	8:30 am-11:30 am	IBERVILLE
350-H	Env Str-Editorial	Mon	1:00 pm-2:30 pm	LAFAYETTE
350-J	Env Str-Education	Mon	3:30 pm-6:30 pm	BOARDROOM
350-L	Env Str-Specification	Tue	3:30 pm-6:30 pm	STUDIO 10
350-SC	Env Str-Steering Comm	Sun	11:30 am-1:00 pm	STUDIO 3
351	Equip Foundations	Mon	12:00 pm-2:00 pm	BALCONY I
351-B	Grtnng Fndns - Equip Machnry	Mon	8:15 am-10:00 am	BALCONY M
352	Joints	Sun	2:00 pm-5:00 pm	SALON D
355	Anchorage	Sun	1:00 pm-5:00 pm	SALON A
355-TG	Anchorage TG	Mon	8:30 am-12:00 pm	BALCONY L
357	Offshore & Marine	Tue	8:30 am-11:30 am	BALCONY M
359	Nuclear Reactors	Wed	8:30 am-4:30 pm	BALCONY J
360	Slabs on Ground	Mon	2:00 pm-6:30 pm	LA GALERIES 4&5
362	Parking Structures	Mon	1:00 pm-5:00 pm	STUDIO 6
362-A	Parking Str- Standard	Mon	8:30 am-12:00 pm	BALCONY I
363	High-Strength	Wed	8:30 am-11:30 am	STUDIO 9
363-A	High-Strength - Lightweight Concrete	Tue	3:30 pm-5:00 pm	BALCONY M
364	Rehabilitation	Mon	2:00 pm-5:00 pm	LA GALERIE 1
365	Service Life	Mon	9:00 am-11:00 am	STUDIO 6
369	Seismic Rehab	Mon	2:00 pm-6:00 pm	BALCONY K
370	Dynamic & Vibratory Effects	Sun	1:30 pm-4:30 pm	STUDIO 8
371	Elevated Tanks with Concrete Pedestals	Tue	10:00 am-1:00 pm	BOARDROOM
372	Prestressed/Wire Wrapped	Tue	3:00 pm-5:00 pm	BOARDROOM
373	Prestressed/ Tendons	Sun	8:30 am-10:00 am	BALCONY K
374	Seismic Design	Mon	8:30 am-12:30 pm	LA GALERIE 1

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
374-TG2	Protocol For Testing RC Structural Elements	Sun	11:30 am-1:00 pm	STUDIO 10
375	Design for Wind Loads	Mon	1:00 pm-3:30 pm	BOARDROOM
376	RLG Containment Structures M1	Sat	3:00 pm-5:00 pm	SALON B
376	RLG Containment Structures M2	Sun	9:00 am-5:00 pm	STUDIO 4
376-TG	RLG Containment Structures TG M1	Mon	11:30 am-5:00 pm	BALCONY M
376-TG	RLG Containment Structures TG M2	Tue	9:00 am-12:00 pm	REGENT
376-TG	RLG Containment Structures TG M3	Wed	9:00 am-5:00 pm	BALCONY K
408	Development and Splicing	Sun	8:30 am-11:30 am	STUDIO 9
421	Reinf Slabs	Sun	10:00 am-1:00 pm	LA GALERIE 2
423	Prestressed	Mon	9:00 am-1:00 pm	LA GALERIE 2
423-445	Adhoc Grp on Shear in Prestress Conc	Sun	3:00 pm-5:00 pm	STUDIO 3
435	Deflection	Mon	3:30 pm-6:30 pm	JACKSON
437	Strength Evaluation	Mon	8:30 am-11:30 am	STUDIO 2
439	Steel Reinforcement	Mon	8:30 am-10:00 am	NAPOLEON
439-A	Steel Reinf-Wire	Sun	12:30 pm-2:00 pm	BALCONY M
440	Fiber Reinforced Polymer	Tue	8:30 am-11:30 am	SALON D
440-D	FRP-Research	Sun	1:30 pm-3:00 pm	LA GALERIE 1
440-F	FRP-Repair Strengthening	Mon	3:00 pm-6:00 pm	LA GALERIE 6
440-G	FRP-Student	Mon	8:30 am-10:00 am	BALCONY K
440-H	FRP-Reinforced-Concrete	Sun	8:30 am-11:30 am	STUDIO 2
440-I	FRP-Prestressed Concrete	Mon	10:00 am-11:30 am	BALCONY M
440-L	FRP-Durability	Sun	3:00 pm-5:00 pm	LA GALERIE 1
440-M	FRP-Repair of Masonry Str	Mon	1:00 pm-3:00 pm	STUDIO 8
441	Columns	Mon	11:30 am-2:00 pm	STUDIO 2
441-E	Column Multi-Spiral Reinf	Sun	3:00 pm-4:30 pm	STUDIO 5
444	Experimental Analysis	Tue	8:00 am-10:00 am	NAPOLEON
445	Shear & Torsion	Mon	2:00 pm-6:00 pm	BALCONY L

Numerical Committee Meeting Listing

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

Numerical Committee Meeting Listing

Code	Committee	Day	Time	Room Name
546-B	Repair-Material Selection Guide	Sun	9:30 am-10:30 am	BALCONY J
546-C	Repair-Guide	Sun	10:30 am-11:30 am	BALCONY J
548	Polymers	Tue	8:30 am-10:30 am	BALCONY K
548-A	Polymers-Overlays	Mon	8:30 am-11:00 am	REGENT
548-B	Adhesives in Concrete	Mon	11:00 am-1:00 pm	STUDIO 6
548-C	Structural Polymer Design	Sun	11:30 am-1:00 pm	BALCONY L
548-TG	Polymers-TG	Sun	2:00 pm-3:00 pm	IBERVILLE
549	Thin Reinforced	Sun	10:30 am-2:00 pm	LA GALERIE 3
549-A	Thin Reinforced-Premix GFRC	Sun	8:30 am-10:30 am	STUDIO 8
550	Precast Structures	Tue	10:30 am-1:00 pm	STUDIO 6
551	Tilt-up	Sun	8:30 am-11:00 am	LA GALERIE 4
552	Cementitious Grouting	Tue	11:30 am-2:00 pm	BALCONY L
555	Recycled	Mon	5:00 pm-6:30 pm	STUDIO 2
560	Design & Constr ICFs	Wed	8:30 am-11:30 am	STUDIO 8
562	Eval, Repair & Rehab	Sun	11:30 am-5:00 pm	SALON E
562-A	Eval, Repair & Rehab-Life Safety	Sat	5:00 pm-9:00 pm	SALON B
562-B	Eval, Repair & Rehab-Loads	Sun	8:00 am-9:00 am	STUDIO 4
562-C	Eval, Repair & Rehab-Structural Analysis	Sat	5:00 pm-9:00 pm	SALON C
562-D	Eval, Repair & Rehab-Structural Repair Design	Sat	1:00 pm-3:00 pm	SALON B
562-E	Eval, Repair & Rehab-Durability Quality Assurance	Sat	5:00 pm-9:00 pm	BALCONY J
562-F	Eval, Repair & Rehab-General	Sat	1:00 pm-5:00 pm	BALCONY J
563	Specs for Repair of Struct Conc in Bldgs	Tue	2:00 pm-5:00 pm	BALCONY L

Notable CONCRETE in New Orleans and Vicinity

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.

SESSIONS

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 1:25 pm

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 2:25 pm

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 2:55 pm

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 3:20 pm

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 **3:35 pm**

Fuminori Tomosawa, Professor, Nihon University, Tokyo, Japan

Sustainability ISO Standardization for the Concrete Sector
International Standard for Environmentally **3:50 pm**

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 **4:05 pm**

Koji Sakai, Professor, Kagawa University, Takamatsu, Japan

Forum Discussion **4:20 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

ACADIA/BISSONET

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

1:15 pm

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

1:35 pm

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 Schaufert**, Rensselaer Polytechnic Institute

Sunday, November 8, 2009

2:00 pm – 5:00 pm

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

SALON C

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

2:00 pm

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

Advances in the Use of Column Hung Shoring Systems

2:25 pm

John A. Brain, Eastern District Director of Engineering, Harsco Infrastructure, Paramus, NJ

Insulated Forms; Why and Why Now?

2:50 pm

Pierre-Claude Aitcin, Professor, University of Sherbrooke, Sherbrooke, QC, Canada

Fabric Formed Concrete

3:15 pm

Robert Schmitz, Principal, RP Schmitz Consulting Engineers, Brookfield, WI

Intelligent Formwork System (Reshore Free, Bi-Directional, Self Leveling Slab Form Systems)

3:40 pm

George Charitou, Chief Engineer, EllisDon Construction, Mississauga, ON, Canada; and Lloyd J. Keller, EllisDon Construction

Overhang Forming Design Calculations

4:05 pm

J. Leroy Caldwell, Senior Engineer, CMC Construction Services, Dallas, TX

Technical Committees Interface with Specification

4:30 pm

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

CARONDELET

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.

✓ = separate fee required

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.

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 Martinez, Pedro Valdez Tamez, Elvira Zarazua Morin, 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**

ACADIA/BISSONET

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.) **ACADIA/BISSONET**

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 Pavements in Freeze-Thaw Environments

10:00 am

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

Monday, November 9, 2009

9:00 am – 12:00 pm

Things You Need to Know About Workability of Concrete SALON C

Sponsored by ACI Committees 238, Workability of Fresh Concrete, and E802, Teaching Methods and Educational Materials

Session Moderator: Kejin Wang
Associate Professor
Iowa State University
Ames, IA

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.

Introduction **9:00 am**
Kejin Wang, Associate Professor, Iowa State University, Ames, IA

Overview of ACI 238.1 R-08 Report on **9:05 am**
Measurements of Workability and Rheology of Fresh Concrete
Chiara F. Ferraris, Physicist, National Institute of Standards and Technology, Gaithersburg, MD

Monday, November 9, 2009

9:00 am – 12:00 pm

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

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

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

SALON B

Sponsored by ACI Committee 445, Shear and Torsion

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

Session Co-Moderators: **David Darwin**
Distinguished Professor
The University of Kansas
Lawrence, KS

Yi-Lung Mo
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

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.) **SALON B**

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 **Wen-I. Liao**, National Taipei University of Technology

Evaluation of Behavior of Reinforced Concrete Shear Walls through Finite Element Analysis **10:32 am**

Ravi T. Mullanpudi, 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.)

SALON F

Permeability of Fiber Reinforced Mortar under Stress 10:15 am
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 10:30 am
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 10:45 am
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 11:00 am
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 11:15 am
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 11:30 am
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 11:45 am
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



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.

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

SALON A

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 Using Nanoindentation

2:00 pm

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 is Small, Part 2 (cont.) **SALON A**

Porosity and Permeability of Cementitious Materials, Incorporating Very Low Concentrations of Poly(ethylene oxide)-black-Polystyrene **2:50 pm**

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 the Mechanical Stability of Cement **3:15 pm**

Paste Exposed to Natural pH Environments

Jintendra Jain, Post Doctoral Research Associate, Purdue University, West Lafayette, IN; and **Narayanan Neithalath**, Clarkson University

Enhancing the Reactivity of Normal and High-Volume Fly Ash Concrete Using Colloidal Nano-Silica **3:40 pm**

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 Hydration Process **4:05 pm**

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 for Structural Assessment and Life Cycle Management? **4:30 pm**

Yann Le-Pape, Senior Researcher, EDF R&D Materials and Mechanics, Moret-Sur-Loing, France; and **Charles Toulemonde** and **Julien Sanahuja**, Electricité de France

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

Monday, November 9, 2009

2:00 pm – 5:00 pm

The Leading Edge of Pervious Concrete, Part 2

SALONS G&H

Sponsored by ACI Committee 522, Pervious Concrete

Session Co-Moderators:

Heather J. Brown

Associate Professor

Middle Tennessee State University

Murfreesboro, TN

Charles A. Weiss

Research Geologist

U.S. Army Engineer Research &

Development Center

Vicksburg, MS

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 **SALON B**
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.) SALON B

Damage Tools to Model Severe Loading Effects on Reinforced Concrete Structures 2:04 pm

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 2:26 pm

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 2:48 pm

Christian Meyer, Professor of Civil Engineering, Columbia University, New York, NY

Experimental Observations of Masonry Infilled Reinforced Concrete Frames with Openings 3:10 pm

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 3:32 pm

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 3:54 pm

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 **SALON B**
in Non-Linear Finite Element Analysis of Concrete Structures (cont.)

Evaluation of Sequentially Linear Finite Element Analysis **4:16 pm**
to Simulate Nonlinear Response of Cement-Based Composites
Sarah L. Billington, Associate Professor, Stanford University,
Stanford, CA

Fiber Beam Element Formulation Using the Softened **4:38 pm**
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**
\$69 U.S. per person

DEPART MAIN LOBBY

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?

SALON C

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
Point of View** **11:00 am**
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 **9:00 am**

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 **10:30 am**

Tim Cost, Senior Technical Service Engineer, Holcim (US) Inc., Canton, MS

Mass Concrete & Thermal Control Considerations for Large Pours **11:00 am**

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 Trade Center Reconstruction **10:40 am**

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 Bridge Decks **11:00 am**

Kolluru V. Subramaniam, Associate Professor, University of New York, New York, NY

Temperature Dependence of Conversion Reactions and Subsequent Volume Change in Calcium Aluminate Cement Systems **11:20 am**

Jason H. Ideker, Assistant Professor, Oregon State University, Corvallis, OR

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

SALON B

Sponsored by ACI Committee 445, Shear & Torsion

Session Organizer: Abdeldjelil Belarbi
Distinguished Professor
Missouri University S&T
Rolla, MO

Session Co-Moderators: Paul Zia
Distinguished Professor Emeritus
North Carolina State University
Raleigh, NC

Abdeldjelil Belarbi
Distinguished Professor
Missouri University S&T
Rolla, MO

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 in Northern Europe

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.)

SALON B

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 in Non-Prestressed Beams without Distributed Horizontal Reinforcement **10:54 am**

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 Moslehy**, 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 than 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? Consequences of Early Removal 2:30 pm
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.) **SALON A**

FRP Super Laminates Offer Solutions to Unsolved Problems **3:20 pm**

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 **3:40 pm**

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 **4:00 pm**

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 **4:20 pm**

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 **4:40 pm**

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.) SALON B

Shear Strength of Slabs with Double-Headed Shear Studs in Radial and Orthogonal Layouts 2:26 pm

Walter H. Dilger, Professor Emeritus, University of Calgary, Calgary, AB, Canada; and **Gerd Birkle**, Stantec Consulting

Shear Capacity of Ultra-High-Performance Concrete I-Girders with Orthogonal Welded Wire Reinforcement 2:48 pm

Maher K. Tadros, Professor, University of Nebraska–Lincoln, NE; and **George Morcouc** and **Marc Maguire**, University of Nebraska–Lincoln

Effect of Strand Debonding on Prestressed Concrete Girder Shear Performance 3:10 pm

Mohsen Shahawy, President and CEO, SDR Engineering Consultants, Inc., Tallahassee, FL; and **Tarek Hassan**, Ain Shams University

Concrete - The Sustainable 21st Century Greening Infrastructure Material 3:32 pm

Edward G. Nawy, Distinguished Professor Emeritus, Rutgers University, Piscataway, NJ

A New Design Method for Shear in Prestressed Concrete Girders 3:54 pm

Arghadeep Laskar, Engineer, Worley Parsons, Houston, TX; and **Thomas T.C. Hsu** and **Yi-Lung Mo**, University of Houston

FRP Shear Transfer Mechanism for Precast, Prestressed Concrete Sandwich Load-Bearing Panels 4:16 pm

Sami H. Rizkalla, Distinguished Professor, North Carolina State University, Raleigh, NC; **Tarek Hassan**, Ain Shams University; and **Gregory Lucier**, North Carolina State University

Reliability Models for Shear in Reinforced Concrete Beams 4:38 pm

Andrzej S. Nowak, Professor, University of Nebraska–Lincoln, NE; and **Piotr Paczkowski**, University of Nebraska–Lincoln

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

DEPART MAIN LOBBY

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.) SALON B

Distributed Coaxial Cable Sensors for Check Detection: Size and Location 10:20 am

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 10:55 am

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 11:20 am

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 Consolidating Concrete, and 544, Fiber Reinforced Concrete

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

Liberato Ferrara
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 Ferrara, 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.)**

SALONS G&H

**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?

SALON A

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 Column Specimens Under Biaxial Cyclic Loading **9:00 am**

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.)

SALON A

Seismic Performance of FRP-Encased Engineering Cementitious Composites for Bridge Substructures

11:05 am

Pedram Zohrevand, Professor, Florida International University, Miami, FL; and **Amir Mirmiran**, Florida International University

Seismic Performance of Precast Post-Tensioned Concrete Filled FRP Tubes **11:30 am**

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

SALON F

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 Rajabipour**, 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.)**

SALON F

**HIPERPAV III—An Enhanced FHWA Software for
Simulating Early-Age Concrete Pavement Behaviors**

11:00 am

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.

A Historical Review of Lerch's Paper: "The Influence of Gypsum on Hydration and Properties of Portland Cement Pastes" **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. Offenberger**, 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**

SALON E

\$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.

✓ = separate fee required

Wednesday, November 11, 2009

2:00 pm – 5:00 pm

Corrosion of Post-Tensioned Systems

SALON A

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, Misconceptions, and Truths 2:00 pm

Randall W. Poston, Principal, WDP and Associates, Austin, TX; and
Keith Kesner, WDP and Associates

Corrosion of Bonded Strand in Post-Tensioned Concrete Under Fatigue Loading 2:30 pm

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 Corrosion of Post-Tensioned Concrete Systems 3:00 pm

Hiroshi Mutsuyoshi, Professor, Saitama University, Saitama, Japan; and **Ha Minh**, Saitama University

European Technical Approval: State of the Art Certification of Post-Tensioning Systems 3:30 pm

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 **4:00 pm**
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 **4:30 pm**
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 of Concrete Structure, Part 2 SALON B

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.) **SALON B**

Monitoring Performance of Cathodically Protected FRP Repaired Piles **3:35 pm**

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 **4:00 pm**

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 Ferrara
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.)**

SALONS G&H

**Prediction of Stress Development and Cracking in
Steel Fiber Reinforced Self Compacting Concrete Overlays Due to
Restrained Shrinkage** **3:40 pm**

Jonas Carlswärd, Engineer, Betongindustri AB, Kallered, Sweden;
and **Mats Emborg**, Betongindustri AB/Luleå Technical University

Steel Fiber Reinforced Self Compacting Concrete Case Studies **4:05 pm**
Jeffrey L. Novak, Technical Manager, Bekaert Corporation, Marietta, GA

**Design, Analysis, and Implementation of Steel Fiber
Reinforced Concrete Elevated Slabs** **4:30 pm**

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

SALON F

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

2:00 pm

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

2:30 pm

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

3:00 pm

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

4:00 pm

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.)**

SALON F

**Development of a Computer Simulation Model for
Optimal Packing of Concrete Aggregates**

4:30 pm

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

LA GALERIE 6

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

Notes

ACI Board Committees and Chairs

Certification Programs	G. Terry Harris
Chapter Activities	Dawn L. Miller
Construction Liaison	Michael J. Schneider
Convention	Kari L. Yuers
Educational Activities	Cecil L. Jones
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William E. Rushing Jr.
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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, 1 contact hour is equal to 1 Professional Development Hour (PDH). Check with your state board for acceptance criteria. *Please note: ACI does not track and cannot provide documentation confirming attendee participation or attendance at any ACI session held during the convention.*

Instructions: Check off each session you attended and write in the number of PDH credits you earned for each day.

Remember that 1 PDH is equal to a contact hour (nominal) of instruction or presentation, rounded down to the nearest half-hour.

SATURDAY, NOVEMBER 7, 2009

1:00 PM-5:00 PM

4 PDH

- Forum on Sustainability (130/ISO-TC71/BAC-SD)

SUNDAY, NOVEMBER 8, 2009

2:00 PM-5:00 PM

3 PDH

- Emerging Technologies in Civil Infrastructure Application (TTTC)
- Construction, Formwork, Scheduling, Tolerances, and Communication (347)
- Application of Fracture Mechanics to Concrete Structures and Composites (446)
- How I Spiced Up My Concrete (New Orleans Chapter Convention Committee)

MONDAY, NOVEMBER 9, 2009

9:00 AM-12:00 PM

3 PDH

- Research in Progress (123)
- Nanotechnology of Concrete: The Next Big Thing is Small, Part 1 (236)
- The Leading Edge of Pervious Concrete, Part 1 (522)
- Simple Tools and Gadgets Which Help Solve your Problems (E702)
- Symposium Honoring Thomas T. C. Hsu, Part 1: Recent Advances in Seismic Shear of Wall-Type Structures (445)
- Things You Need to Know About Workability of Concrete (238/E802)

2:00 PM-5:00 PM

3 PDH

- Nanotechnology of Concrete: The Next Big Thing is Small, Part 2 (236)
- The Leading Edge of Pervious Concrete, Part 2 (522)
- "What's New" on Concrete Reinforcing Detailing (E702)
- Quality Management Systems for Concrete Construction (121)
- Symposium Honoring Thomas T. C. Hsu, Part 2: Recent Advances in Non-Linear Finite Element Analysis of Concrete Structures (447)

7:30 PM-10:00 PM

2.5 PDH

- 123 Forum (123)

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 (E703)
- 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. C. Hsu, Part 4: Recent Advances in Shear and Torsion of Concrete Bridges (343)
- Can this Concrete Self-Consolidate? (237)

WEDNESDAY, NOVEMBER 11, 2009

9:00 AM-12:00 PM

3 PDH

- Sulfate Influence on Properties of Early Age Concrete (231)
- 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 (444)
- 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 (444)
- 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



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