and all that jazz!

1996 FALL CONVENTION
ACI
NEW ORLEANS

THEME: DISASTER MITIGATION

THEME SESSIONS:
- Aerated Concrete Performance in Disasters
- Strength Evaluation Following a Disaster
- Bridge Evaluation in Disaster Mitigation
- Blast-Resistant Design I & II

FERGUSON LECTURE:
- Self-Compacting High-Performance Concrete

OTHER EVENTS:
- 35 Additional Technical and Educational Sessions
- 250 Committee Meetings
- Contractors' Day
- Educational Seminar: 1995 Changes in the 318 Building Code
- Student Day
- Rap Breakfast
- General Session
- Concrete Mixer
- Guest Program

November 3-8, 1996
HYATT REGENCY
NEW ORLEANS
AMERICAN CONCRETE INSTITUTE
BOARD OF DIRECTION

President
James S. Pierce

Vice Presidents
Richard N. White
James R. Libby

Directors
John H. Clark
W. Gene Corley
Douglas W. Deno
C. Terry Dooley
Luis E. Garcia
David P. Gustafson
Terence C. Holland
Merlyn Isaak
Frederick L. Moreadith
B. Duke Pointer
Philip T. Seabrook
James K. Wight

Past Presidents
George C. Hoff
Dean E. Stephan
Robert F. Mast

Executive Vice President
George F. Leyh
SUSTAINING MEMBERS OF THE AMERICAN CONCRETE INSTITUTE

Baker Concrete Construction, Inc.
Monroe, Ohio

W. R. Grace & Co.
Cambridge, Massachusetts

Holnam, Inc.
Dundee, Michigan

Lafarge Canada, Inc.
Montréal, Québec

Lafarge Corporation, Great Lakes Region
Southfield, Michigan

Lone Star Industries, Inc.
Stamford, Connecticut

Master Builders, Inc.
Cleveland, Ohio

Phoenix Corporation
Honolulu, Hawaii

Portland Cement Association
Skokie, Illinois

Precast/Prestressed Concrete Institute
Chicago, Illinois
LOUISIANA CHAPTER
CONVENTION COMMITTEE

Chairman
Om P. Dixit
Burk-Kleinpeter, Inc.

Vice-Chairman
William E. Rushing, Jr.
Waldemar S. Nelson & Co.

Special Advisors
Janmarie Hornack
ChemCraft, Inc.

Peter G. Snow
Consultant

Treasurer
Donald F. Meyn
Delta Testing & Inspection

Finance
Charles N. Kahn, Jr.
Dixie Building Materials Co., Inc.

Thomas M. Smith
Design Engineering, Inc.

William Sewell
City of New Orleans

Mike Choudhry
Rahman and Associates, Inc.

Social Events
Robert A. Turner
Department of Public Works, St. Bernard Parish

Roy A. Glapion
Citywide Testing & Inspections, Inc.

Timothy M. Ruppert
Morphy, Makofski, Inc.

Contractor Relations
Adam Mehn
Burk-Kleinpeter, Inc.

Frank Stritzinger
T. L. James Construction

Calvin J. Zenor
Delta Testing & Inspection
Guest Program
Suresh I. Shah
Burk-Kleinpeter, Inc.

Angela L. DeSoto
U.S. Army Corps of Engineers

Ashwini Y. Pandit
Dept. of Public Works, Jefferson Parish

Shirley Kleinpeter
Burk-Kleinpeter, Inc.

Technical Program
Robert B. Anderson
Anderson Consulting Engineers

Masood Rasoulian
Louisiana Transportation Center

Student Program
John L. Niklaus
Tulane University

Dale A. Phillips
Waldemar S. Nelson & Co.

Michael Folse
University of New Orleans

Publicity
Kenneth J. Meyn
Delta Testing & Inspection

Wayne Peterson
Schrenk & Peterson

William B. Haensel, Jr.
Krebs, Lasalle, Lemieux Consultants, Inc.
LOUISIANA CHAPTER OFFICERS

President
René A. Chopin, III
Burk-Kleinpeter, Inc.

Vice President
Shashikant M. Suthar
Fromerz Engineers, Inc.

Past President
Darrell F. Elliot
Master Builders

Secretary
Richard S. Owens
Owens & Sons, Inc.

Treasurer
William E. Rushing, Jr.
Waldemar S. Nelson & Co., Inc.

Board Members
Mark A. Cheek
URS Consultants

Mike A. Choudhry
Rahman & Associates, Inc.

Kerwin E. Julien
Julien Engineering & Consulting, Inc.

J. Craig Marks
Professional Service Industry, Inc.

Kenneth J. Meyn
Delta Testing & Inspection

Brian A. Patin
Post Tension Slabs, Inc.
CONVENTION SPONSORS

REX
ACI Louisiana Chapter

BACCHUS
Holnam, Inc.
Master Builders, Inc.
W. R. Grace & Co.
Waldemar's, Nelson & Co., Inc.

ZULU
Blue Circle Cement
Boh Brothers Construction
Burk-Kleinpeter, Inc.
Fibermesh Company
LaFarge Corporation
Louisiana Industries

ENDYMION
August Contractors
ACI Florida Suncoast Chapter
ACI Georgia Chapter
ACI National Capital Chapter
ACI Northeast Texas Chapter
ACI New Mexico Chapter
ACI New Rocky Mountain Chapter
ACI Southern California Chapter
Angelle Concrete
Design Engineering, Inc.
Modjeski-Masters
Owens and Sons, Inc.

THOTH
AA Price
ACI El Paso International Chapter
Alpha Testing & Inspection
Badeaux & Associates, Inc.
Big River Industries, Inc.
Building Specialties
Carlo Ditta, Inc.
Citywide Testing & Inspection
Concrete Controls, Inc.
Delta Testing & Inspection
Dixie Building Materials Co., Inc.
Eustis Engineering, Co.
Evans-Graves Engineers
Charles N. Kahn, Jr.
CONVENTION SPONSORS

THOTH
Koltz Equipment Co.
Kulkarni Consultants
N-Y & Associates, Inc.
Nairn Concrete Services, Inc.
Peter Judlin, Inc.
Professional Construction Services, Inc.
Rahman & Associates
Rio Grande Portland Cement, Corp.
Smith Materials & Equipment Co., Inc.
URS Consultants

ARGUS
ACI Florida First Coast Chapter
ACI New Jersey Chapter
ACI San Antonio, Texas Chapter
Cajun Concrete Services, Inc.
Gulf Coast Pre-stress, Inc.
Heck Industries, Inc.
Huval & Associates
Jeffery, Thomas, Avegno, Inc.
Linfield, Hunter & Junius, Inc.
Mike Choudhry
Morphy Makofsky, Inc.
Théo Industrials
Schrenk & Peterson Consulting Engineers, Inc.
Tycer Ready Mix, Inc.

The American Concrete Institute
and the
ACI Louisiana Chapter
deploy appreciate their support.

Note: These were the sponsors as of
October 11, 1996. Please check the sign
at the Registration Area for
additional sponsors.
As Mayor of the City of New Orleans, I am delighted to welcome the American Concrete Institute to one of the most enchanting cities in the world. I know the people of New Orleans will make you feel more friend than stranger of this Crescent City, nestled in a deep bend of the Mississippi River.

Encircled by the river, Lake Pontchartrain, bayous, swamps, marshes and wetlands, New Orleans evolved along ridges, or “chesnuts” as they were called, marked by grand Live Oak and tall Magnolia trees. Our unique history, combining French, Spanish, African and many other European and Caribbean influences, runs today through our endless varieties of architecture, music and food. Whether it’s our “snowballs” or “po-boy” sandwiches or artfully created “new” New Orleans cuisine, design your own personal food fest.

New Orleans is many cities within one. Be sure to experience not only our famed French Quarter, but our many other distinct neighborhoods. Use the streetcar to see the majesty of the homes in the Garden District, on the way to our world renowned Audubon Zoo. Visit the 18th century plantation homes along Bayou St. John that lead you to the doorstep of the New Orleans Museum of Art, itself a gateway to the natural beauty of City Park and Lake Pontchartrain.

In the heart of our business district the “New Downtown” has sprung up, bordered by the Riverwalk Festival Marketplace at the Riverfront and the New Orleans Centre, a regional shopping mall at the Superdome. There you will also find new art galleries, music clubs, elegant hotels, and, of course, great restaurants.

The song, “Do you know what it means to miss New Orleans,” was written not just for people from New Orleans, but for visitors as well. We know that having welcomed you once, we will welcome you again.

Marc H. Morial
Mayor, City of New Orleans
Dear Concrete Institute Members:

Welcome to Louisiana! On behalf of the people of our great state, I am pleased to extend our most cordial greetings and hospitality.

We are delighted that you have chosen New Orleans for your 1996 Semi-Annual Fall North American Meeting. I invite you to witness firsthand the attractions of our incredible state. No other state can boast the gamut from natural waterways and wetlands, to the birth of Zydeco music and incomparable cuisine from the highest rated restaurants in the country.

People in Louisiana pride themselves on their great historic and cultural diversity. I look forward to the opportunity to share that pride with you, so that you may experience the many flavors, sites and sounds that make New Orleans such a special city.

Again, I wish you great success with your conference.

With kind regards, I am

Sincerely,

M.L. "Mike" Foster, Jr.

[Signature]
Welcome to New Orleans:

Convention time is here once again!

And time for ACI members and their guests to gather once more,

... renew old friendships and hopefully establish new ones,
... stop to assist anyone who seems “lost,”
... exchange views and ideas on current trends,
... absorb facts on the latest concrete technology,
... debate methods and concepts which lead to better concrete,
... partake of tasty hors d’oeuvres and other treats at a friendly social,
... listen to intriguing technical discussions about a current design method or other innovations,
... try to decide which meetings to attend at the expense of forgoing those you don’t have time for,
... corner a few committee members to try to convert them to your point of view,
... grab a little time for shopping and/or taking in a few sights,
... and on... and on... and on... a hundred other things to do at an Institute convention, resulting in a very busy six days for all here in the “Big Easy” that is New Orleans.

You know — it’s an ACI convention!

If you’re an old member, like me, do what you’ve always done! If this is your first convention, join all the learning experiences—and fun. If you need any help, just holler.

It’s ACI convention time — enjoy!!!!

You’re among friends!

James S. Pierce
President
ACI International
Visit the ACI Web Site!

Information on ACI Products and Services:
* ACI Membership * New ACI Publications * ACI Telephone Directory * Certification * Conventions * Education and Seminars * Technical Committees * Chapters * Concrete International * Journals and Separate Publications * Other Online Resources

Check Us Out Today!

http://www.aci-int.inter.net
# TABLE OF CONTENTS

**ACI FALL CONVENTION**  
November 3 - 8, 1996  
New Orleans, Louisiana

*Theme: DISASTER MITIGATION*

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACI Board of Direction</td>
<td>2</td>
</tr>
<tr>
<td>ACI Louisiana Chapter</td>
<td>6</td>
</tr>
<tr>
<td>ACI Louisiana Chapter Convention Committee</td>
<td>4-5</td>
</tr>
<tr>
<td>ACI President's Welcome Letter</td>
<td>11</td>
</tr>
<tr>
<td>ACI Sustaining Members</td>
<td>3</td>
</tr>
<tr>
<td>ACI Web Site</td>
<td>12</td>
</tr>
<tr>
<td>CA Quick Search</td>
<td>41</td>
</tr>
<tr>
<td>Certification Information</td>
<td>55</td>
</tr>
<tr>
<td>Contractors' Day and Luncheon</td>
<td>74-76</td>
</tr>
<tr>
<td>Convention Committee</td>
<td>107</td>
</tr>
<tr>
<td>Daily Events</td>
<td>25-34</td>
</tr>
<tr>
<td>Educational Activities Committee</td>
<td>107</td>
</tr>
<tr>
<td>Educational Calendar</td>
<td>42-43</td>
</tr>
<tr>
<td>Educational Seminar</td>
<td>101</td>
</tr>
<tr>
<td>Educational Videotapes</td>
<td>44-45</td>
</tr>
<tr>
<td>Future Conventions</td>
<td>108</td>
</tr>
<tr>
<td>General Information</td>
<td>14</td>
</tr>
<tr>
<td>General Session</td>
<td>86</td>
</tr>
<tr>
<td>Guest Program</td>
<td>22-24</td>
</tr>
<tr>
<td>Hotel Maps</td>
<td>17-18</td>
</tr>
<tr>
<td>Hotel Meeting Room Indexes</td>
<td>16</td>
</tr>
<tr>
<td>International Conference 1997</td>
<td>46</td>
</tr>
<tr>
<td>MCP CD-Rom Demonstration</td>
<td>15</td>
</tr>
<tr>
<td>Moonlight on the Mississippi Dinner Cruise</td>
<td>84</td>
</tr>
<tr>
<td>New Orleans Welcome Letter</td>
<td>9-10</td>
</tr>
<tr>
<td>New Publications</td>
<td>54</td>
</tr>
<tr>
<td>Numerical Committee Listing</td>
<td>35-40</td>
</tr>
<tr>
<td>Personal Log</td>
<td>102-106</td>
</tr>
<tr>
<td>RAP Breakfast</td>
<td>85</td>
</tr>
<tr>
<td>Registration Information</td>
<td>14</td>
</tr>
<tr>
<td>Special Events</td>
<td>20-21</td>
</tr>
<tr>
<td>Sponsors</td>
<td>7-8</td>
</tr>
<tr>
<td>Standards Presentation</td>
<td>87</td>
</tr>
<tr>
<td>Students’ Day</td>
<td>57</td>
</tr>
<tr>
<td>Student Program</td>
<td>47</td>
</tr>
<tr>
<td>Technical Activities Committee</td>
<td>107</td>
</tr>
<tr>
<td>Technical and Educational Sessions/Forum</td>
<td>47-100</td>
</tr>
</tbody>
</table>

13
GENERAL INFORMATION

CONVENTION REGISTRATION INFORMATION

The ACI staff is eager to answer any questions you may have pertaining to the convention. Our Registration Desk is open to serve you during the following hours:

- **Saturday**: 1:00 PM - 5:00 PM
- **Sunday**: 10:00 AM - 5:00 PM
- **Monday**: 7:30 AM - 5:00 PM
- **Tuesday**: 8:00 AM - 5:00 PM
- **Wednesday**: 8:00 AM - 5:00 PM
- **Thursday**: 8:00 AM - 5:00 PM

SEMINAR REGISTRATION

Friday, November 8 ...... 8:00 AM - 8:30 AM

BADGES

Wear your badge on the right side at all times. (In shaking hands, the eyes normally fall at the shoulder level on the right side of the individual being greeted.) The convention badges are color coded for identification as follows:

- **Member**: White
- **Student**: Blue
- **Nonmember**: Peach
- **Guest**: Beige
- **Fellow**: White

**Note**: Badges will be required to attend all social events.

Flash photography can be disturbing to other attendees. Please refrain from this activity during sessions.

The **Speaker Ready Room** is located in the Dauphine Room, on the 4th Floor of the Hyatt Regency New Orleans.

**Suggested Attire**: For meetings, business attire. For the Concrete Mixer, business attire and for other evening social events, business or evening attire.

**ATTENTION STUDENTS! LEGAL DRINKING AGE IS 21.** If you attend social events and you have not reached legal drinking age, please do not request any alcoholic beverages.
GET ANSWERS TO YOUR CONCRETE QUESTIONS . . . fast!

. . . FROM THE MOST COMPREHENSIVE SET OF DOCUMENTS AVAILABLE ON CONCRETE TECHNOLOGY.

ACI's Manual of Concrete Practice is available on compact disk. The new 1996 MCP CD-ROM contains both DOS and Windows versions. It uses sophisticated, yet easy-to-use search software to access the most comprehensive set of documents available on concrete technology in an instant. Save time looking for any ACI document referenced in project specifications. Instantly retrieve every reference that exists on your subject.

INCLUDES LATEST VERSIONS OF COMMITTEE REPORTS!

Some of the up-to-date specifications you'll find in the 1996 MCP CD-ROM:

- 318/318R-95 The new Building Code Requirements for Structural Concrete, approved in August 1995. Some highlights of the revised Code:
  - Minimum flexural reinforcement requirements are tied to concrete strength
  - Expanded section on precast concrete
  - New seismic requirements
  - Revised design provisions for torsion
  - A new chapter on Structural Plain Concrete
- 301-96 Standard Specifications for Structural Concrete, effective January 1, 1996
- 506.2-95 Specifications for Shotcrete
- 228.1R-95 In-Place Methods to Estimate Concrete Strength
- Four new committee reports

NOW USE MCP IN WINDOWS™ DEMONSTRATIONS SCHEDULED DURING THE CONVENTION

See how the new MCP CD-ROM Windows™ version will provide you with the solid information found in the Manual of Concrete Practice. Demonstrations have been conveniently scheduled during the convention in the Royale Room at the Hyatt Regency New Orleans. Please note that space is limited. Demonstrations will be held hourly on the half hour. Seize this "hands on" opportunity!

MONDAY TUESDAY
7:30AM - 11:30AM 7:30AM - 11:30AM
1:30PM - 5:30PM 1:30PM - 5:30PM

ATTEND A DEMO AND RECEIVE A FREE ACI MOUSE PAD!
<table>
<thead>
<tr>
<th>Room</th>
<th>Floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland</td>
<td>4th</td>
</tr>
<tr>
<td>Audubon</td>
<td>2nd</td>
</tr>
<tr>
<td>Buena Vista</td>
<td>4th</td>
</tr>
<tr>
<td>Burgundy A</td>
<td>4th</td>
</tr>
<tr>
<td>Burgundy B</td>
<td>4th</td>
</tr>
<tr>
<td>Burgundy C</td>
<td>4th</td>
</tr>
<tr>
<td>Cabildo A</td>
<td>2nd</td>
</tr>
<tr>
<td>Cabildo B</td>
<td>2nd</td>
</tr>
<tr>
<td>Cabildo C</td>
<td>2nd</td>
</tr>
<tr>
<td>Carrollton</td>
<td>2nd</td>
</tr>
<tr>
<td>Dauphine</td>
<td>4th</td>
</tr>
<tr>
<td>Delgado</td>
<td>2nd</td>
</tr>
<tr>
<td>Elmwood</td>
<td>4th</td>
</tr>
<tr>
<td>Elysian Fields</td>
<td>2nd</td>
</tr>
<tr>
<td>Esplanade A</td>
<td>2nd</td>
</tr>
<tr>
<td>Esplanade B</td>
<td>2nd</td>
</tr>
<tr>
<td>Esplanade C</td>
<td>2nd</td>
</tr>
<tr>
<td>Gentilly</td>
<td>2nd</td>
</tr>
<tr>
<td>Kenilworth</td>
<td>4th</td>
</tr>
<tr>
<td>LaSalle AB*</td>
<td>7th</td>
</tr>
<tr>
<td>Magnolia</td>
<td>4th</td>
</tr>
<tr>
<td>Poydras A</td>
<td>2nd</td>
</tr>
<tr>
<td>Poydras B</td>
<td>2nd</td>
</tr>
<tr>
<td>Prytania</td>
<td>2nd</td>
</tr>
<tr>
<td>Rampart</td>
<td>4th</td>
</tr>
<tr>
<td>Regency A</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency B</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency C</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency D</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency E</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency F</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency G</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency H</td>
<td>3rd</td>
</tr>
<tr>
<td>Regency South Foyer</td>
<td>3rd</td>
</tr>
<tr>
<td>Rosedown</td>
<td>4th</td>
</tr>
<tr>
<td>Royale</td>
<td>4th</td>
</tr>
<tr>
<td>Toulouse</td>
<td>2nd</td>
</tr>
<tr>
<td>Versailles</td>
<td>4th</td>
</tr>
</tbody>
</table>

*LaSalle AB is located on the 7th Floor of the Lanai Section of the Hyatt. This room can be accessed through special elevators located on the lobby level to the left of the hotel registration desk and on the 3rd floor level.*
LOCATION
Located in the heart of the central business district near the New Orleans Convention Center and the French Quarter. Adjacent to the hotel is the Louisiana Superdome and the New Orleans Outlet Shopping Mall. 3 miles from New Orleans International Airport.

GUEST ROOM INFORMATION
Number of rooms: 1,181
Suites: 9
King rooms: 350
Double-double: 440
Regency Club rooms: 45
Gold Passport rooms: 20
Accommodations: 30
Non-smoking rooms: 517
Number of floors: 21
Check-in time: 3:00 p.m.
Check-out time: 12:00 noon

Guest room features:
- TV with remote control
- Cable movie channels
- In-room pay phones
- Telephone with voice mail
- Mini-bar
- Ironing board
- Hair dryer
- Safe

GUEST SERVICES AND SHOPS
- Business Center
- 1-800-CHECK-IN
- Elevators with use of passengers with disabilities
- Coin laundry
- Lockers in baggage claim

REGISTRATION FACILITIES
- Outdoor pool
- Valet parking
- Parking garage
- Beauty salon
- In-room coffee
- Coffee maker
- Hair dryer
- Refrigerator
- Iron and ironing board
- Hair dryer
- Safe

RECREATIONAL FACILITIES
- Outdoor pool
- Fitness center
- Jacuzzi
- Tennis courts
- Spa

MEETING AND BANQUET FACILITIES
- Total meeting space: 5,566 sq. ft.
- Ballroom space: 3,000 sq. ft.
- Exhibit space: 2,566 sq. ft.
- Livestream capacity: 1,000 people
- Banquet capacity: 1,000 people
- Boardroom capacity: 10 people

General information:
- Non-smoking rooms available throughout the hotel
- Free Wi-Fi available
- Guest lobby lounge
- Gift shop
- Restaurant and lounge
- Fitness center
- Meeting rooms
- Banquet facilities
- Catering
- Audio-visual equipment
- On-site parking
- Complimentary transportation

RESTAURANTS AND LOUNGE
<table>
<thead>
<tr>
<th>Name</th>
<th>Seats/Capacity</th>
<th>Caterer/Cuisine</th>
<th>Meal Spread</th>
<th>Exterior Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courtyard</td>
<td>240</td>
<td>Global Comfort</td>
<td>BLD</td>
<td>NA</td>
</tr>
<tr>
<td>Le Cafe</td>
<td>60</td>
<td>Deli</td>
<td>BLD, L</td>
<td>NA</td>
</tr>
<tr>
<td>Bay of Pines</td>
<td>150</td>
<td>Regional American</td>
<td>D</td>
<td>NA</td>
</tr>
<tr>
<td>Hypnotic Bar</td>
<td>120</td>
<td>Seafood/Pizza</td>
<td>L</td>
<td>Video Games</td>
</tr>
<tr>
<td>Mini Julep Lounge</td>
<td>300</td>
<td>Bar/Cocktail</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

19
SPECIAL EVENTS

SUNDAY, NOVEMBER 3

OPENING NIGHT RECEPTION/CASH BAR
6:30 PM - 7:30 PM
Regency D

Join our host chapter and old and new friends at this opening night reception to start off the convention.

COFFEE BAR (Sunday - Thursday)
8:00 AM - 10:00 AM
Regency South Foyer

Share a cup of coffee with your colleagues before going to your morning meetings.

MONDAY, NOVEMBER 4

ATTENTION SESSION MODERATORS AND SPEAKERS
You are invited to attend an informative training session on Monday, November 4, in Regency B Room, from 7:00 AM - 8:30 AM. See page 56 for details.

STUDENTS’ DAY LUNCHEON
NOON - 2:00 PM
Regency B

Encourage student participation in ACI! Join students and ACI convention attendees for lunch and hear luncheon speaker, Walter Eggers, talk about “Northumberland Strait Bridge.” See page 57 for details. Please purchase your tickets by 10:00 AM on Sunday, November 3.

WOMEN OF ACI
5:30 - 6:30 PM
Ashland

This informal social event is a means for ACI women to network and get to know each other better, in an environment that is less structured than committee meetings and less populous than mixers. We will meet for soft drinks and wine, nibbles and camaraderie. It is free to anyone who wishes to attend. Bring your business cards.

TUESDAY, NOVEMBER 5

BY INVITATION ONLY
Technical and Educational Committee Chairmen Training Session
Tuesday, November 5
7:00 AM - 8:30 AM
Regency B

(Free continental breakfast for the first 50 attendees)
SPECIAL EVENTS

TUESDAY, NOVEMBER 5

CONTRACTORS’ DAY LUNCHEON
NOON - 2:00 PM
$21.00
Regency B

We hope you will join us for lunch and hear our luncheon speaker, Mr. Frank Danton, Secretary of the Louisiana Department of Transportation and Development, give an address on “Transportation Overview—Present and Future.”

MOONLIGHT ON THE MISSISSIPPI
7:00 PM - 10:00 PM
$37.00/Cash Bar

See page 84 for details.

WEDNESDAY, NOVEMBER 6

RAP SESSION BREAKFAST
8:30 AM - 9:30 AM
Regency E

Enjoy a complimentary continental breakfast and get answers to your questions from the ACI President and Executive Vice President. ACI is your organization. Don’t miss this opportunity to learn more about it.

GENERAL SESSION/STANDARDS PRESENTATION
10:00 AM - 1:00 PM
Regency D

Come to the General Session and hear our Phil M. Ferguson Lecturer, Professor Hajime Okamura, give a talk on “Self-Compacting High Performance Concrete.” This will be followed by a keynote address from Skip Bertman, Baseball Head Coach of the Louisiana State University, who will speak on “Olympics, Baseball or Business—There Must be Teamwork to Succeed.” Immediately, following the General Session is the Standards Presentation on the “Proposed New Standard Specification for Cast-in-Place Architectural Concrete (ACI 303.1-xx)”.

CONCRETE MIXER
6:30 PM - 8:00 PM
Grand Ballroom
New Orleans Hilton Riverside & Towers

The ACI Louisiana Chapter invites you to an evening of fun and enjoyment and “A Taste of Mardi Gras.” Your ticket is complimentary with a full week’s registration fee. Business or casual attire.
SUNDAY, NOVEMBER 3

NEW ORLEANS AND ALL ITS SPLendor
1:00 PM - 4:00 PM $19.00
The City Tour is a thorough and fascinating introduction to the endless variety of sights found in America's most European city. Board a deluxe motor coach - sit back and enjoy...this narrated tour includes Esplanade Avenue where you will see the mansions of Creole merchants nestled among 100-year old oak trees. The tour continues to St. Louis III Cemetery, often called the "city of the dead" because of its above ground tombs. After going through City Park, New Orleans' largest municipal park, the tour proceeds along Lake Ponchartrain and the city's fine yacht harbor. Then you'll go on through the old town of Carrollton to St. Charles Avenue following the streetcar route where you'll see Tulane and Loyola Universities, Audubon Park, and beautifully restored mansions.

MONDAY, NOVEMBER 4

WELCOME TO NEW ORLEANS: AN OVERVIEW
10:00 AM - 11:00 AM Regency D
This overview session will provide helpful hints to make your visit more pleasurable.

VIEUX CARRE PROMENADE
12:30 PM - 2:30 PM $23.00
A must for every visitor to New Orleans is a walking tour of the world-famous French Quarter. The original French and Spanish influences on this centuries old city are evidenced by the beautiful and unique architecture. Highlighted here are such famous landmarks as the Pontalba building (one of America's first apartment buildings), the St. Louis Cathedral flanked by the Cabildo and Presbytery, and Jackson Square with its old world flavor and its own colorful art colony. Take a step back in time down Rue Royal, while your tour guide tells fascinating stories of pirates, priests, haunted houses, and Voodoo Queens. Enjoy viewing ironlace balconies, romantic patios, and quaint antique shops, providing some of the South's finest selection of European and American antiques. Savor the aromatic perfumes of roasting coffees and bubbling molasses from praline shops. Tour Herman Grima House, an 1833 mansion that features slave quarters, a Creole kitchen, stable, and stately courtyard. The Herman Grima House is one of the earliest and best examples of American architecture in the French Quarter. Light refreshments will be served in the house. Comfortable walking shoes are recommended.

GUEST AFTERNOON TEA
3:00 PM - 5:00 PM
Hosted by Mrs. Dee Pierce.
LaSalle AB
GUEST PROGRAM

TUESDAY, NOVEMBER 5

GENTEEEL CORNER OF NEW ORLEANS  
9:00 AM - 1:00 PM  $47.00
Just a few miles from the French Quarter lies the Garden District. In the 19th century, this was known as the American Section, where English rather than French was its language. As you journey down St. Charles Avenue, you'll view elegant houses built primarily in the Greek Revival and Italianate styles of architecture. Two private Garden District homes will graciously be offered for touring. You'll sense a bygone era as you visualize young ladies of the Old South entertaining their gentlemen callers, mint julep in hand. Following a stroll through the Garden District, you'll enjoy lunch at New Orleans' famous Commander's Palace, located in the heart of the Garden District. World-renowned for its Creole cuisine, dining in the grand manner at Commander's is a must since 1833. This adventure will truly make you drift back to the South's most elegant era. Proper dress required at Commander's Palace (sports jacket or suit coat for men).

***Menu***  
Turtle Soup, Commander's Salad, Roasted Chicken or Shrimp Victoria  
Creole Bread Pudding or Creme Brulee, Bread & Butter, Tea, Coffee

WEDNESDAY, NOVEMBER 6

THE PAST REVISITED: HOUMAS & NOTTAWAY PLANTATIONS  
10:00 AM - 5:00 PM  $49.00
Nottaway is an American castle, a gem of Italianate and Greek Revival style, boasting 53,000 square feet. In 1859, 10 years after construction began, Nottaway was completed. Nottaway brought innovative and unique features to the South, including indoor plumbing, gas lights, and coal fireplaces. Intricate lacy plaster friezework, hand-painted Dresden porcelain doorknobs, hand-carved marble mantels, Corinthian columns, and a 65-foot Grand White Ballroom are all part of this monument to a bygone era. You will lunch at Lafitte's landing (the "Old Viala" Plantation) in the shadows of the Sunshine Bridge. Here you will enjoy irresistible Cajun/Creole cuisine and share tidbits of information from world-renowned Chef John Folse, host of "A Taste of Louisiana" program, produced by Louisiana Public Broadcasting.

After lunch, you will continue to Houmas House Plantation. Houmas House derives its name from the Houmas Indians, who originally held this strip of land on the Mississipi. The magnificent Greek Revival mansion, built in 1840, fronts the original 1790 Colonial house. The two homes are joined by an arched carriage-way both furnished with period antiques. Houmas House was the setting for the motion picture "Hush, Hush Sweet Charlotte" starring Bette Davis and has been featured in countless magazines.

***Menu***  
Lafitte's Landing Salad, Chicken Andouille Pasta, Vegetable  
Praline Mousse, Bread & Butter, Tea, Coffee
GUEST PROGRAM

WEDNESDAY, NOVEMBER 6

TEA AND TIMELESS TREASURES
1:30 PM - 5:30 PM  $36.00
The newly popular Warehouse District, likened to New York’s Soho section, provides a fabulous walking tour as it has become home of over a dozen contemporary art galleries. Located right off Canal Street, these quaint old warehouses once held precious commodities such as coffee and cotton and now hold artisans and their works of art. As you stroll through the District you will be able to share in the experience of many talented artisans as well as shop in exclusive stores of finery and one-of-a-kind items.

THURSDAY, NOVEMBER 7

DISCOVER NEW ORLEANS’ “OTHER” WILDLIFE
9:30 AM - 1:30 PM  $45.00
Come with us only 30 minutes (20 miles) from downtown New Orleans to enjoy a journey by boat, Cajun style, into the heart of Louisiana’s beautiful and natural swamplands. Your boat will travel deep into the swamps and meandering bayous of this exciting region. Be sure to bring your camera as you may encounter exciting and beautiful animals at any time. Alligators, snakes, nesting eagles, egrets, white-tailed deer, mink, and nutria all flourish in this untamed land. Your guide is a native of the area who knows firsthand, the various sources of food and plant life that thrive throughout the year in this “virgin” area. History comes alive as your guide recounts the exploits of the pirate, Jean Lafitte, and his bank that plied these waters during the infancy of this country. Come see for yourself, Louisiana’s mysterious waters and moss-draped bayous made famous in song and story. The adventure of Jean Lafitte awaits you!!! After the swamp tour enjoy lunch at the Restaurant des Familles. Located in Crown Point on the bank of Bayou Barataria, Restaurant des Familles offers Cajun/Creole cuisine in a swamp setting. *Tennis shoes and comfortable clothes are highly recommended.

***Menu***
Shrimp Po-Boy, Gumbo, Bread Pudding, Coffee or Tea

GENERAL INFORMATION

* All tours depart from and return to the Hyatt Regency New Orleans.
* All prices are per person and include round-trip tour buses, tour guides, and admission to special attractions. Special attractions include docent guided tours.
* All tours with paid refreshments are noted and the refreshment cost is included.
DAILY EVENTS

[(Mt. = Meeting (SC) = Subcommittee (TG) = Task Group]

FRIDAY, NOVEMBER 1

7:00P - 10:00P
TAC Technical Activities (M-1) Burgundy C

SATURDAY, NOVEMBER 2

8:00A - 5:00P
TAC Technical Activities (M-2) Burgundy C

8:30A - 5:00P
EAC Educational Activities (M-1) Burgundy D

2:00P - 5:00P
359 Nuclear Vessels Burgundy B

SUNDAY, NOVEMBER 3

7:00A - 8:30A
E701 Materials for Concrete Construction Buena Vista

8:00A - 6:00P
TAC Review Group 1 Burgundy C
TAC Review Group 2 Burgundy A
TAC Review Group 3 Burgundy B
TAC Review Group 4 Burgundy D

8:30A - 10:00A
CLC Construction Liaison Ashland
120 History of Concrete Magnolia
350 Subcommittee Chairs Cabildo B

8:30A - 11:30A
E801 Student Activities Rosedown
315 Detailing Delgado
341 Earthquake-Resistant Bridges Audubon
373 Cir. Prstd. Tendons Toulouse
408 Bond and Development Versailles
437 Strength Evaluation Carrollton

8:30A - 1:00P
E705/118 Educational Computer Activities Prytania
ITG-1 TTTC Task Group 1 Kenilworth
336 Footings Rampart
349-3 Embedment (M-1) Gentilly

8:30A - 3:30P
445-3 Shear Issues Cabildo A

9:00A - NOON
440-D FRP Research Buena Vista

10:00A - 1:00P
350 Environmental Structures (M-1) Cabildo C
441 Reinforced Concrete Columns Magnolia
SUNDAY

11:30A - 1:00P
345  Bridge Construction  Toulouse
E802  Teaching Methods & Educational Materials  Rosedown

NOON - 5:00P
Student Program and Competition  Tulane University

2:00P - 5:00P
Hot Topic Committee  Delgado
230  Soil Cement  Ashland
342  Bridges & Bridge Elements  Buena Vista
346  CIP Pipe  Elmwood
440J  FRP Stay-in-Place Formwork  Magnolia

2:00P - 5:00P
SESSIONS
Use of High-Performance Fiber Reinforced Concrete for Infrastructure Repair & Retrofit: Part I  Poydras A
* Aerated Concrete Performance in Disasters  Regency B
Concrete Structures in the Gulf South  Regency C
A New ACI Document: Education Bulletin E4-95—Admixtures in Concrete  Poydras B

2:00P - 5:00P
CPC 1  Certification Programs(M-1)  Versailles
E703  Concrete Construction Practices  Audubon
305  Hot Weather  Carrollton
309  Consolidation  Rosedown
349.2  Design  Rampart
350  A  Subcommittee Group A  Cabildo B
352  Joints  Kenilworth
355  Anchorage (M-1)  Gentilly
369  Seismic Rehab  Prytania

3:30P - 5:00P
Membership Committee  Ashland
445-1  State-of-the-Art Report  Toulouse

3:30P - 6:30P
Publications Committee  Oak Manor
227  Radioactive Hazardous Waste Management  Magnolia
343  Bridge Design  Cabildo A
440-F  FRP Repair  Buena Vista

5:00P - 6:30P
E905  Training Programs  Elmwood
348  Safety  Toulouse

6:30P - 7:30P
Opening Night Reception/Cash Bar  Regency D

MONDAY, NOVEMBER 4

7:00A - 8:30A
TMC  Metritication  Ashland

* THEME SESSION
### MONDAY

**8:30A - 9:30A**
- 304-5R  Lightweight Subcommittee  
  Toulouse
- 304-6R  Lightweight Subcommittee  
  Toulouse

**8:30A - 10:00A**
- 100th Anniversary Task Group  
  Buena Vista
- C601-P  Plasterer Certification  
  Burgundy A
- E702  Designing Concrete Structures  
  Elmwood
- SC0  Scholarship Council  
  Versailles
- 213-A  High-Strength Lightweight  
  Burgundy D
- 325-09  Construction  
  Delgado
- 363-1  High Strength Structural  
  Rampart
- 548-D  Sulfur Concrete  
  Rosedown

**8:30A - 11:30A**
- C610  Field Technician  
  Burgundy B
- 212  Chemical Admixtures  
  Burgundy C
- 232  Fly Ash & Natural Pozzolons  
  Cabildo B
- 304  Measure/Mix/Transport/Place  
  Toulouse
- 311  Inspection  
  Kenilworth
- 360-I  Slabs on Grade Subcommittee  
  Cabildo A
- 368  Earthquake Resistance  
  Esplanade A
- 440-H  FRP Reinforced Concrete  
  Carrollton
- 523  Cellular Concrete  
  Esplanade B

**8:30A - 1:00P**
- 209  Creep and Shrinkage  
  Elysian Fields
- 349-1&4  Materials & Waste and Repository Structures  
  Magnolia
- 349-3  Embedment (M-2)  
  Gentilly

**8:30A - 5:00P**
- 350-A  Subcommittee Group A  
  Esplanade C
- 350-B  Subcommittee Group B  
  Poydras B
- 543  Concrete Piles  
  Audubon

### SESSIONS

**9:00A - NOON**
- Research in Progress  
  Regency C
- Structural Concrete Under Severe Dynamic Loads  
  Regency E
- Innovative Concrete Technology in Residential Construction  
  Regency F
- Computers in Practice and Education  
  Regency G
- Use of High-Performance Fiber Reinforced Concrete for Infrastructural Repair & Retrofit: Part II  
  Regency H

**9:00A - 1:00P**
- 318  Building Code (M-1)  
  Cabildo C

**10:00A - 11:00A**
- Guest Overview  
  Regency D

**10:00A - 11:30A**
- C601-T  Tilt-Up Certification  
  Burgundy A
- 213-B  Lightweight/Parking Structures & Bridge Decks  
  Burgundy D
- 225-TG  Hydraulic Task Group  
  Versailles
- 325-36  Concrete Pavement Strengths  
  Delgado
- 444  Experimental Analysis  
  Ashland
- 524  Plastering  
  Buena Vista
- 548-A  Polymer Modified Concrete  
  Rosedown
MONDAY

10:00A - 1:00P
THPC TAC High Performance  Poydras A
207 Mass Concrete  Rampart
533 Precast Panels  Elmwood

11:30A - 1:00P
C601 New Programs  Burgundy A
C640 Craftsmen Certification  Burgundy B
211-D High Strength  Carrollton
213-C By-Product Lightweight Aggregates  Burgundy D
325-33 Fast Track Pavements  Delgado
440-E Professional Education  Buena Vista
440-G FRP Student Education  Ashland
515-A Protective Systems for Concrete - A  Burgundy C
548-E Structural Design & Analysis  Rosedown

11:30A - 6:30P
360 Slabs on Grade  Cabildo A

NOON - 1:00P
544-Ex Executive Subcommittee  Toulouse

NOON - 2:00P
- Student Luncheon  Regency B

2:00P - 3:30P
C630T Transportation Inspector  Burgundy B
116 Terminology and Notation  Rampart
213-D Review of 213 Guide  Burgundy D
225 Hydraulic Cements  Versailles
229 Controlled Low-Strength  Burgundy C
325-35 Con. Paver Block Pavements  Delgado
544-A Steel Fibers  Esplanade B
544-B Glass Fibers  Toulouse

2:00P - 5:00P  SESSIONS
Extreme Loads and Load Combinations  Regency C
* Strength Evaluation Following a Disaster  Regency E
Research on Transportation Structures  Regency F
Hot Topic: Seismic and Wind Mitigation for Structures  Regency G

2:00P - 5:00P
IAC International Activities  Rosedown
RC Responsibility  Ashland
TSC Specifications  Buena Vista
303 Architectural Concrete  Elmwood
308-S Curing - Specifications  LaSalle
340 Design Aids for ACI Building Codes  Magnolia
355 Anchorage (M 2)  Gentilly
363 High-Strength  Esplanade A
445-2 Full Member Design  Elysian Fields
546 Repair  Poydras A
546-B Polymer Concrete Overlays  Cabildo B

* SEPARATE FEE REQUIRED
★ THEME SESSION
### MONDAY/TUESDAY

<table>
<thead>
<tr>
<th>2:00P - 6:30P</th>
<th>Room</th>
<th>Topic</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>318-A</td>
<td>General, Concrete Construction</td>
<td>Kenilworth</td>
<td></td>
</tr>
<tr>
<td>318-E</td>
<td>Shear and Torsion</td>
<td>Burgundy A</td>
<td></td>
</tr>
<tr>
<td>318-G</td>
<td>Prestressed Precast</td>
<td>Carrollton</td>
<td></td>
</tr>
<tr>
<td>318-H</td>
<td>Seismic Provisions</td>
<td>Cabildo C</td>
<td></td>
</tr>
<tr>
<td>3:30P - 5:00P</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>C630</td>
<td>Construction Inspector</td>
<td>Burgundy B</td>
<td></td>
</tr>
<tr>
<td>123</td>
<td>Research</td>
<td>Burgundy C</td>
<td></td>
</tr>
<tr>
<td>211-C</td>
<td>No Slump</td>
<td>Versailles</td>
<td></td>
</tr>
<tr>
<td>325-34</td>
<td>Rehabilitation &amp; Restoration</td>
<td>Delgado</td>
<td></td>
</tr>
<tr>
<td>544-C</td>
<td>Synthetic Fibers</td>
<td>Esplanade B</td>
<td></td>
</tr>
<tr>
<td>544-D</td>
<td>Natural Fibers</td>
<td>Toulouse</td>
<td></td>
</tr>
<tr>
<td>3:30P - 6:30P</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>440-I</td>
<td>FRP Prestressed Concrete</td>
<td>Rampart</td>
<td></td>
</tr>
<tr>
<td>5:00P - 6:30P</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>E903</td>
<td>Convention Training</td>
<td>Elmwood</td>
<td></td>
</tr>
<tr>
<td>TCRC</td>
<td>TAC Construction Review</td>
<td>Buena Vista</td>
<td></td>
</tr>
<tr>
<td>213</td>
<td>Lightweight</td>
<td>Burgundy D</td>
<td></td>
</tr>
<tr>
<td>544-E</td>
<td>FRC Seminars</td>
<td>Toulouse</td>
<td></td>
</tr>
<tr>
<td>552</td>
<td>Geotechnical Grouting</td>
<td>Burgundy C</td>
<td></td>
</tr>
</tbody>
</table>

### TUESDAY, NOVEMBER 5

<table>
<thead>
<tr>
<th>7:00A - 8:30A</th>
<th>Room</th>
<th>Topic</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCRC</td>
<td>Reinforced Concrete Research Council</td>
<td>Ashland</td>
<td></td>
</tr>
<tr>
<td>TTTC</td>
<td>Technology Transfer</td>
<td>Carrollton</td>
<td></td>
</tr>
<tr>
<td>8:30A - 10:00A</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>325-32</td>
<td>Jointed Pavement</td>
<td>Delgado</td>
<td></td>
</tr>
<tr>
<td>423-B</td>
<td>Prestressed Concrete Bond Task Group</td>
<td>Toulouse</td>
<td></td>
</tr>
<tr>
<td>544-F</td>
<td>Testing</td>
<td>Cabildo B</td>
<td></td>
</tr>
<tr>
<td>554</td>
<td>Bearing Systems</td>
<td>Rosedown</td>
<td></td>
</tr>
<tr>
<td>8:30A - 11:30A</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>CAC</td>
<td>Chapter Activities</td>
<td>Gentilly</td>
<td></td>
</tr>
<tr>
<td>C620</td>
<td>Laboratory Technician</td>
<td>Burgundy A</td>
<td></td>
</tr>
<tr>
<td>124</td>
<td>Concrete Aesthetics</td>
<td>Buena Vista</td>
<td></td>
</tr>
<tr>
<td>335</td>
<td>Composite and Hybrid Structures</td>
<td>Poydras B</td>
<td></td>
</tr>
<tr>
<td>349</td>
<td>Nuclear Structures</td>
<td>Versailles</td>
<td></td>
</tr>
<tr>
<td>370</td>
<td>Dynamic &amp; Vibratory Effects</td>
<td>Burgundy C</td>
<td></td>
</tr>
<tr>
<td>506</td>
<td>Shotcreting</td>
<td>Prytania</td>
<td></td>
</tr>
<tr>
<td>548</td>
<td>Polymers</td>
<td>Cabildo A</td>
<td></td>
</tr>
<tr>
<td>8:30A - 1:00P</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>EAC</td>
<td>Educational Activities (M-2)</td>
<td>Burgundy B</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>Tolerances</td>
<td>Ashland</td>
<td></td>
</tr>
<tr>
<td>318-B</td>
<td>Reinforcement and Development</td>
<td>Cabildo C</td>
<td></td>
</tr>
<tr>
<td>318-C</td>
<td>Serviceability/Safety</td>
<td>Elmwood</td>
<td></td>
</tr>
<tr>
<td>318-D</td>
<td>Flexure and Axial Loads</td>
<td>Magnolia</td>
<td></td>
</tr>
<tr>
<td>318-F</td>
<td>Two-Way Slabs</td>
<td>Rampart</td>
<td></td>
</tr>
<tr>
<td>550</td>
<td>Precast Concrete Structures</td>
<td>Burgundy D</td>
<td></td>
</tr>
<tr>
<td>551</td>
<td>Tilt-Up Construction</td>
<td>Audubon</td>
<td></td>
</tr>
<tr>
<td>8:30A - 5:00P</td>
<td>Room</td>
<td>Topic</td>
<td>Location</td>
</tr>
<tr>
<td>350-A</td>
<td>Subcommittee Group A</td>
<td>Esplanade A</td>
<td></td>
</tr>
<tr>
<td>350-B</td>
<td>Subcommittee Group B</td>
<td>Esplanade C</td>
<td></td>
</tr>
</tbody>
</table>
TUESDAY

9:00A - NOON  SESSIONS
Serviceability of Cable-Stayed Bridges  Regency C
Repair with FRP Composites  Regency E
 Influence of Binder Makeup on Durability: Part I  Regency F

10:00A - 11:30A
215  Fatigue  Rasedown
325-10  Roller Compacted Concrete  Delgado

10:00A - 1:00P
211-A  Editorial and Coordination  Carrollton
222  Corrosion of Metals in Concrete  Esplanade B
306  Cold Weather  Elysian Fields
544-G  Design & Structural Uses  Cabildo B

11:30A - 1:00P
IJBRC  Int’l Joints & Bearing Research Council  Delgado
221  Aggregates  Poydras A
302  Construction of Floors  Cabildo A
332-TG2  Residential Task Group 2  Buena Vista
503-A  Adhesives - Subcommittee  Toulouse
515-B  Protective Systems for Concrete - B  Burgundy C

NOON - 2:00P  Contractors’ Day Luncheon  Regency B

2:00P - 3:30P
210  Erosion/Hydraulic Struct.  Magnolia
234  Silica Fume  Esplanade B
332-TG1  Residential Task Group 1  Buena Vista
446-3  Finite Element Analysis and Fracture  Burgundy B

2:00P - 5:00P  SESSIONS
Developing Design Criteria for Essential Facilities  Regency C
TAC Open Paper Session  Regency E
Influence of Binder Makeup on Durability: Part II  Regency F
★ Bridge Evaluation in Disaster Mitigation  Regency H
Contractors’ Day, Part II:
Session 1 - Future of Design Build Contracts: Pros and Cons
Session 2 - Construction Education - What Can It Do For You?  Regency G

2:00P - 5:00P
CRC  Convention Committee  Poydras A
ITG-2  Concrete Research Council  Burgundy A
126  TTTC Task Group 2  Carrollton
216  Fire Resistance & Fire Protection of Structures  Toulouse
223  Expansive Cement  Kenilworth

★ SEPARATE FEE REQUIRED
★ THEME SESSION
# TUESDAY/WEDNESDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00P-5:00P</td>
<td>231 Early Age</td>
<td>Elmwood</td>
</tr>
<tr>
<td></td>
<td>233 Ground Slag</td>
<td>Burgundy D</td>
</tr>
<tr>
<td></td>
<td>308-R Curing - SOA Report</td>
<td>Prytania</td>
</tr>
<tr>
<td></td>
<td>325 Pavements</td>
<td>Delgado</td>
</tr>
<tr>
<td></td>
<td>347 Formwork</td>
<td>Audubon</td>
</tr>
<tr>
<td></td>
<td>351-2 Dynamic Subcommittee</td>
<td>Rampart</td>
</tr>
<tr>
<td></td>
<td>1/3/4/5 Requirements of Design/Evaluation</td>
<td>Elyson Fields</td>
</tr>
<tr>
<td></td>
<td>421 Slabs</td>
<td>Burgundy C</td>
</tr>
<tr>
<td></td>
<td>503 Adhesives</td>
<td>Cabildo A</td>
</tr>
<tr>
<td></td>
<td>544 Fiber Reinforced</td>
<td>Cabildo B</td>
</tr>
<tr>
<td>2:00P-6:30P</td>
<td>228 Nondestructive Testing</td>
<td>Ashland</td>
</tr>
<tr>
<td></td>
<td>318 Building Code (M-2)</td>
<td>Cabildo C</td>
</tr>
<tr>
<td></td>
<td>440 Fiber Reinforced Plastic</td>
<td>Gentilly</td>
</tr>
<tr>
<td>3:00P-5:30PM</td>
<td>506-A Shotcreting Subcommittee</td>
<td>Magnolia</td>
</tr>
<tr>
<td>3:30P-5:00P</td>
<td>446-4 Dynamic Fracture</td>
<td>Burgundy B</td>
</tr>
<tr>
<td></td>
<td>568 Protective Coatings</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>3:30P-6:30P</td>
<td>364-2 Rehabilitation Materials</td>
<td>Versailles</td>
</tr>
<tr>
<td>5:00P-6:30P</td>
<td>211-E Evaluation &amp; Adjustment</td>
<td>Magnolia</td>
</tr>
<tr>
<td></td>
<td>446 Fracture Mechanics</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>7:00P-10:00P</td>
<td>• Moonlight on the Mississippi Dinner Cruise</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Buses will pick up at the entrance of the Hyatt Regency)</td>
<td></td>
</tr>
<tr>
<td>7:30P-10:00P</td>
<td>Forum 123: Are the ACI CL Limits Acceptable?</td>
<td>Regency C</td>
</tr>
</tbody>
</table>

**WEDNESDAY, NOVEMBER 6**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00A-8:30A</td>
<td>Joint Task Group on Improving Technical Sessions</td>
<td>Elmwood</td>
</tr>
<tr>
<td>8:30A-9:30A</td>
<td>RAP Session Breakfast</td>
<td>Regency E</td>
</tr>
<tr>
<td>8:30A-10:00A</td>
<td>350 Environmental Structures (M-2)</td>
<td>Esplanade C</td>
</tr>
<tr>
<td></td>
<td>362 Parking Structures</td>
<td>Audubon</td>
</tr>
<tr>
<td></td>
<td>439-A Reinforcement A</td>
<td>Magnolia</td>
</tr>
<tr>
<td></td>
<td>439-B Reinforcement B</td>
<td>Elmwood</td>
</tr>
<tr>
<td>10:00A-NOON</td>
<td>General Session (Featuring Phil M. Ferguson</td>
<td>Regency D</td>
</tr>
<tr>
<td></td>
<td>Lecture Speaker: Prof. Hajime Okamura and Keynote Speaker: Skip Bertman</td>
<td></td>
</tr>
</tbody>
</table>

*SEPARATE FEE REQUIRED*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOON - 1:00P</td>
<td>Standards Presentation</td>
<td>Regency D</td>
</tr>
<tr>
<td>2:00P - 3:30P</td>
<td>Lightweight</td>
<td>Prytania</td>
</tr>
<tr>
<td>211-B</td>
<td>Knowledge Based Systems and Method Models</td>
<td>Rampart</td>
</tr>
<tr>
<td>235</td>
<td>Curing Concrete</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>308</td>
<td>Equipment Foundations</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>351</td>
<td>Reinforcement C</td>
<td>Esplanade B</td>
</tr>
<tr>
<td>439-C</td>
<td>Masonry Research</td>
<td>Audubon</td>
</tr>
<tr>
<td>2:00P - 5:00P</td>
<td><strong>SESSIONS</strong></td>
<td></td>
</tr>
<tr>
<td>211-B</td>
<td>Methods of Teaching the Design of Concrete Structures</td>
<td>Cabildo C</td>
</tr>
<tr>
<td>235</td>
<td>Technology Transfer: Identification of Cutting Edge Technology</td>
<td>Regency C</td>
</tr>
<tr>
<td>308</td>
<td>Lessons Learned from the Past</td>
<td>Regency F</td>
</tr>
<tr>
<td>351</td>
<td>Polymer Concrete Overlays on Industrial Floors</td>
<td>Regency G</td>
</tr>
<tr>
<td>439-C</td>
<td>ACI 301-96 Standard Specification for Structural Concrete: Not Just for Buildings Anymore</td>
<td>Regency H</td>
</tr>
<tr>
<td>2:00P - 5:00P</td>
<td>Adhoc on Improving Conventions</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>235</td>
<td>ConRef</td>
<td>Poydras A</td>
</tr>
<tr>
<td>CPC-2</td>
<td>Certification Programs(M-2)</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>121</td>
<td>Quality Assurance</td>
<td>Magnolia</td>
</tr>
<tr>
<td>122</td>
<td>Energy Conservation</td>
<td>Toulouse</td>
</tr>
<tr>
<td>214</td>
<td>Strength Tests</td>
<td>Carrollton</td>
</tr>
<tr>
<td>224</td>
<td>Cracking</td>
<td>Versailles</td>
</tr>
<tr>
<td>330</td>
<td>Parking Lots</td>
<td>Rosedown</td>
</tr>
<tr>
<td>332</td>
<td>Residential</td>
<td>Gentilly</td>
</tr>
<tr>
<td>357</td>
<td>Offshore and Marine</td>
<td>Ashland</td>
</tr>
<tr>
<td>442</td>
<td>Lateral Forces</td>
<td>Delgado</td>
</tr>
<tr>
<td>445</td>
<td>Shear and Torsion</td>
<td>Poydras B</td>
</tr>
<tr>
<td>549</td>
<td>Ferrocement and Other Thin Reinforced Products</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>2:00P - 6:30P</td>
<td>Chimneys</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>307</td>
<td>Environmental Structures (M-3)</td>
<td>Esplanade C</td>
</tr>
<tr>
<td>350</td>
<td>Anchorage/CEB Task Group (M-1)</td>
<td>Kenilworth</td>
</tr>
<tr>
<td>355/CEBTG</td>
<td>Prestressed Concrete</td>
<td>Esplanade A</td>
</tr>
<tr>
<td>3:30P - 5:00P</td>
<td>Service Life</td>
<td>Rampart</td>
</tr>
<tr>
<td>365</td>
<td>Steel Reinforcement</td>
<td>Esplanade B</td>
</tr>
<tr>
<td>3:30P - 6:30P</td>
<td>Proportioning</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:30P - 8:00P</td>
<td>Concrete Mixer (Buses will pick up at the entrance of the Hyatt Regency)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New Orleans</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hilton Riverside &amp; Towers</td>
</tr>
<tr>
<td>7:00P - 10:00P</td>
<td>Executive Committee</td>
<td>Gentilly</td>
</tr>
</tbody>
</table>
THURSDAY

8:30A - 10:00A
530-10  Modulus of Elasticity Task Group  Buena Vista
530-12  Empirical Task Group  Elmwood
530-14  Allowable Stress, Reinfg. Details Task Group  Magnolia
556    Demolition  Ashland

8:30A - 11:30A
435    Deflection  Rampart

8:30A - 1:00P
372    Circ. Prstd. Wire Wrap  Rosedown

8:30A - 2:00P
371    Pedestal Water Towers  Versailles

8:30A - 5:00P
301    Specifications  Gentilly
355/CEBTG  Anchorage/CEB Task Group (M-2)  Burgundy C

8:30A - NOON
Board of Direction (M-1)  Cabildo A

9:00A - NOON  SESSIONS
Behavior and Design Issues in Earthquake Response of Concrete Bridges  Regency A

Design of Two-Way Slab Systems Using Elastic Frame Analogies  Regency B

Sulfur Polymer Concrete: A Truly Unique Product  Regency C

★ Blast Resistant Design: Part I  Regency E

10:00A - 11:30A
530-18  Infilled Walls Task Group  Magnolia
530-19  Compressive Strength Task Group  Buena Vista
530-6   Editorial Task Group  Elmwood

10:00A - 1:00P
555    Removal and Reuse  Ashland

11:30A - 1:00P
530-16  Veneers Task Group  Elmwood
530-20  Cavity Wall Task Group  Buena Vista
530-8   Glass Block Task Group  Magnolia

2:00P - 3:30P
201    Durability  Cabildo C
530-11  Inspection Task Group  Elmwood
530-15  Seismic Task Group  Magnolia
530-9   Coefficients Task Group  Buena Vista

2:00P - 5:00P  SESSIONS
Design of Two-Way Slab Systems Using Theorems of Plasticity  Regency B

★ Blast-Resistant Design: Part II  Regency E

★ THEME SESSION
THURSDAY/FRIDAY/SATURDAY

2:00P - 5:00P
   Board of Direction (M-2)   Cabildo A

3:30P - 5:00P
   530-13  International Standards Subcommittee   Magnolia

5:00P - 6:30P
   530-17  Design Procedures Task Group   Magnolia

FRIDAY, NOVEMBER 8

8:00A - 5:00P
   Educational Seminar: 1995 Changes in ACI-318 Building Code   Esplanade A

8:30A - 11:30A
   530-2  General Subcommittee   Magnolia
   530-4  Limit States Subcommittee   Oak Manor

11:30A - 1:00P
   530-5  Specifications Subcommittee   Magnolia

NOON - 1:00P
   Educational Seminar Luncheon   Esplanade B

2:00P - 3:30P
   530-3  Allow. Stress/Emp. Design Subcommittee   Magnolia

3:30P - 5:00P
   530-7  Prestressed Subcommittee   Magnolia

SATURDAY, NOVEMBER 9

8:00A - 2:00P
   530  Masonry   Esplanade A
## NUMERICAL COMMITTEE LISTING

<table>
<thead>
<tr>
<th>COMM.</th>
<th>COMMITTEE TITLE</th>
<th>DAY</th>
<th>TIME</th>
<th>ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Board of Direction (M-1)</td>
<td>THU</td>
<td>8:30A-11:00N</td>
<td>Cabildo A</td>
</tr>
<tr>
<td></td>
<td>Board of Direction (M-2)</td>
<td>THU</td>
<td>2:00P-5:00P</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>TAC</td>
<td>Technical Activities (M-1)</td>
<td>FRI*</td>
<td>7:00P-10:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>TAC</td>
<td>Technical Activities (M-2)</td>
<td>SAT</td>
<td>8:00A-5:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>TAC</td>
<td>Review Group 1</td>
<td>SUN</td>
<td>8:00A-6:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>TAC</td>
<td>Review Group 2</td>
<td>SUN</td>
<td>8:00A-6:00P</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>TAC</td>
<td>Review Group 3</td>
<td>SUN</td>
<td>8:00A-6:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>TAC</td>
<td>Review Group 4</td>
<td>SUN</td>
<td>8:00A-6:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>TCRC</td>
<td>TAC Construction Review</td>
<td>MON</td>
<td>5:00P-6:30P</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>THPC</td>
<td>TAC High Performance</td>
<td>MON</td>
<td>10:00A-1:00P</td>
<td>Poydars A</td>
</tr>
<tr>
<td>TMC</td>
<td>Metrification</td>
<td>MON</td>
<td>7:00A-8:30A</td>
<td>Ashland</td>
</tr>
<tr>
<td>TSC</td>
<td>Specifications</td>
<td>MON</td>
<td>2:00P-5:00P</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>TTTTC</td>
<td>Technology Transfer</td>
<td>TUE</td>
<td>7:00A-8:30A</td>
<td>Carrollton</td>
</tr>
<tr>
<td>ITG-1</td>
<td>TTTC Task Group 1</td>
<td>SUN</td>
<td>8:30A-1:00P</td>
<td>Kenilworth</td>
</tr>
<tr>
<td>ITG-2</td>
<td>TTTC Task Group 2</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
<td>Carrollton</td>
</tr>
<tr>
<td>EAC</td>
<td>Educational Activities (M-1)</td>
<td>SAT</td>
<td>8:30A-5:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>EAC</td>
<td>Educational Activities (M-2)</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>E701</td>
<td>Materials for Concrete Construction</td>
<td>SUN</td>
<td>7:00A-8:30A</td>
<td>B. Vista</td>
</tr>
<tr>
<td>E702</td>
<td>Designing Concrete Structures</td>
<td>MON</td>
<td>8:30A-10:00A</td>
<td>Elmwood</td>
</tr>
<tr>
<td>E703</td>
<td>Concrete Construction Practices</td>
<td>SUN</td>
<td>2:00P-5:00P</td>
<td>Audubon</td>
</tr>
<tr>
<td>E705/</td>
<td>Educational</td>
<td>SUN</td>
<td>8:30A-1:00P</td>
<td>Prytania</td>
</tr>
<tr>
<td>118</td>
<td>Computer Activities</td>
<td>SUN</td>
<td>8:30A-1:00P</td>
<td>Rosedown</td>
</tr>
<tr>
<td>E801</td>
<td>Student Activities</td>
<td>SUN</td>
<td>8:30A-11:30A</td>
<td>Rosedown</td>
</tr>
<tr>
<td>E802</td>
<td>Teaching Methods &amp; Educational Materials</td>
<td>SUN</td>
<td>11:30A-1:00P</td>
<td>Rosedown</td>
</tr>
<tr>
<td>E903</td>
<td>Convention Training</td>
<td>MON</td>
<td>5:00P-6:30P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>E905</td>
<td>Training Programs</td>
<td>MON</td>
<td>5:00P-6:30P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>CPC-1</td>
<td>Certification Programs(M-1)</td>
<td>SUN</td>
<td>2:00P-5:00P</td>
<td>Versailles</td>
</tr>
<tr>
<td>CPC-2</td>
<td>Certification Programs(M-2)</td>
<td>WED</td>
<td>2:00P-5:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>C601</td>
<td>New Programs</td>
<td>MON</td>
<td>11:30A-1:00P</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>C601-P</td>
<td>Plasterer Certification</td>
<td>MON</td>
<td>8:30A-10:00A</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>C601-T</td>
<td>Tilt-Up Certification</td>
<td>MON</td>
<td>10:00A-11:30A</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>C610</td>
<td>Field Technician</td>
<td>MON</td>
<td>8:30A-11:30A</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>C620</td>
<td>Laboratory Technician</td>
<td>TUE</td>
<td>8:30A-11:30A</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>C630</td>
<td>Construction Inspector</td>
<td>MON</td>
<td>3:30P-5:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>C630T</td>
<td>Transportation Inspector</td>
<td>MON</td>
<td>2:00P-3:30P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>C640</td>
<td>Craftsman Certification</td>
<td>MON</td>
<td>11:30A-1:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td></td>
<td>Joint Task Group on Improving Tech. Sessions</td>
<td>WED</td>
<td>7:00A-8:30A</td>
<td>Elmwood</td>
</tr>
<tr>
<td></td>
<td>Adhoc on Convention Improvements</td>
<td>WED</td>
<td>2:00P-5:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td></td>
<td>Adhoc on Material Science</td>
<td>TUE</td>
<td>11:30A-1:00P</td>
<td>Delgado</td>
</tr>
<tr>
<td>CAC</td>
<td>Chapter Activities</td>
<td>TUE</td>
<td>8:30A-11:30A</td>
<td>Gentilly</td>
</tr>
<tr>
<td>CRC</td>
<td>Concrete Research Council</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
<td>Burgundy A</td>
</tr>
<tr>
<td>ConREF</td>
<td></td>
<td>WED</td>
<td>2:00P-5:00P</td>
<td>Poydars A</td>
</tr>
<tr>
<td>CLC</td>
<td>Construction Liaison</td>
<td>SUN</td>
<td>8:30A-10:00A</td>
<td>Ashland</td>
</tr>
<tr>
<td>Convention Committee</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
<td>Poydars A</td>
<td></td>
</tr>
<tr>
<td>Hot Topic Committee</td>
<td>SUN</td>
<td>2:00P-3:30P</td>
<td>Delgado</td>
<td></td>
</tr>
<tr>
<td>IAC</td>
<td>International Activities</td>
<td>MON</td>
<td>2:00P-5:00P</td>
<td>Rosedown</td>
</tr>
<tr>
<td>I JBRC</td>
<td>Int'l Joints &amp; Bearing Research Council</td>
<td>TUE</td>
<td>11:30A-1:00P</td>
<td>Rosedown</td>
</tr>
<tr>
<td></td>
<td>Membership Committee</td>
<td>SUN</td>
<td>3:30P-5:00P</td>
<td>Ashland</td>
</tr>
<tr>
<td>Publications Committee</td>
<td>SUN</td>
<td>3:30P-6:30P</td>
<td>Oak Manor</td>
<td></td>
</tr>
<tr>
<td>RC</td>
<td>Responsibility</td>
<td>MON</td>
<td>2:00P-5:00P</td>
<td>Ashland</td>
</tr>
</tbody>
</table>

35
<table>
<thead>
<tr>
<th>COMM. COMMITTEE TITLE</th>
<th>DAY TIME</th>
<th>ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCRC</td>
<td>TUE 7:00A-8:30A</td>
<td>Ashland</td>
</tr>
<tr>
<td>SCo</td>
<td>MON 8:30A-10:00A</td>
<td>Versailles</td>
</tr>
<tr>
<td>116</td>
<td>MON 8:30A-10:00A</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>117</td>
<td>TUE 8:30A-1:00P</td>
<td>Ashland</td>
</tr>
<tr>
<td>118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E705</td>
<td>SUN 8:30A-1:00P</td>
<td>Prytania</td>
</tr>
<tr>
<td>120</td>
<td>SUN 8:30A-10:00A</td>
<td>Magnolia</td>
</tr>
<tr>
<td>121</td>
<td>WED 2:00P-5:00P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>122</td>
<td>WED 2:00P-5:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>123</td>
<td>MON 3:30P-5:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>124</td>
<td>TUE 8:30A-11:30A</td>
<td>Buena Vista</td>
</tr>
<tr>
<td>126</td>
<td>TUE 2:00P-5:00P</td>
<td>Rosedown</td>
</tr>
<tr>
<td>201</td>
<td>THU 2:00P-3:30P</td>
<td>Cabildo C</td>
</tr>
<tr>
<td>207</td>
<td>MON 10:00A-1:00P</td>
<td>Rampart</td>
</tr>
<tr>
<td>209</td>
<td>MON 8:30A-1:00P</td>
<td>E. Fields</td>
</tr>
<tr>
<td>210</td>
<td>TUE 2:00P-3:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>211</td>
<td>WED 3:30P-6:30P</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>211-A</td>
<td>TUE 10:00A-1:00P</td>
<td>Carrollton</td>
</tr>
<tr>
<td>211-B</td>
<td>WED 2:00P-3:30P</td>
<td>Prytania</td>
</tr>
<tr>
<td>211-C</td>
<td>MON 3:30P-6:00P</td>
<td>Versailles</td>
</tr>
<tr>
<td>211-D</td>
<td>MON 11:30A-1:00P</td>
<td>Carrollton</td>
</tr>
<tr>
<td>211-E</td>
<td>TUE 5:00P-6:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>212</td>
<td>MON 8:30A-11:30A</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>213</td>
<td>MON 5:00P-6:30P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>213-A</td>
<td>MON 8:30A-10:00A</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>213-B</td>
<td>MON 10:00A-11:30A</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>213-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>213-D</td>
<td>MON 11:30A-1:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>214</td>
<td>MON 2:00P-3:30P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>215</td>
<td>WED 2:00P-5:00P</td>
<td>Carrollton</td>
</tr>
<tr>
<td>216</td>
<td>TUE 10:00A-11:30A</td>
<td>Rosedown</td>
</tr>
<tr>
<td>221</td>
<td>TUE 2:00P-5:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>222</td>
<td>TUE 11:30A-1:00P</td>
<td>Poydras A</td>
</tr>
<tr>
<td>223</td>
<td>TUE 10:00A-1:00P</td>
<td>Esplanade B</td>
</tr>
<tr>
<td>224</td>
<td>TUE 2:00P-5:00P</td>
<td>Kenilworth</td>
</tr>
<tr>
<td>224</td>
<td>TUE 2:00P-5:00P</td>
<td>Versailles</td>
</tr>
<tr>
<td>225</td>
<td>MON 2:00P-3:30P</td>
<td>Versailles</td>
</tr>
<tr>
<td>225-TG</td>
<td>MON 10:00A-11:30A</td>
<td>Versailles</td>
</tr>
<tr>
<td>227</td>
<td>SUN 3:30P-6:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>228</td>
<td>TUE 2:00P-6:30P</td>
<td>Ashland</td>
</tr>
<tr>
<td>229</td>
<td>MON 2:00P-3:30P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>230</td>
<td>SUN 2:00P-3:30P</td>
<td>Ashland</td>
</tr>
<tr>
<td>231</td>
<td>TUE 2:00P-5:00P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>232</td>
<td>MON 8:30A-11:30A</td>
<td>Cabildo B</td>
</tr>
<tr>
<td>233</td>
<td>TUE 2:00P-5:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>234</td>
<td>TUE 2:00P-3:30P</td>
<td>Esplanade B</td>
</tr>
<tr>
<td>235</td>
<td>WED 2:00P-3:30P</td>
<td>Rampart</td>
</tr>
<tr>
<td>236</td>
<td>THU 8:30A-5:00P</td>
<td>Gently</td>
</tr>
<tr>
<td>301</td>
<td>TUE 11:30A-1:00P</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>302</td>
<td>MON 2:00P-5:00P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>303</td>
<td>MON 8:30A-11:30A</td>
<td>Toulouse</td>
</tr>
<tr>
<td>304</td>
<td>MON 8:30A-9:30A</td>
<td>Toulouse</td>
</tr>
<tr>
<td>304-5R</td>
<td>MON 8:30A-11:30A</td>
<td>Toulouse</td>
</tr>
<tr>
<td>304-6R</td>
<td>MON 8:30A-9:30A</td>
<td>Toulouse</td>
</tr>
<tr>
<td>COMM. COMMITTEE TITLE</td>
<td>DAY</td>
<td>TIME</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------</td>
<td>------------</td>
</tr>
<tr>
<td>305 Hot Weather</td>
<td>SUN</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>306 Cold Weather</td>
<td>TUE</td>
<td>10:00A-1:00P</td>
</tr>
<tr>
<td>307 Chimneys</td>
<td>WED</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>308 Curing Concrete</td>
<td>WED</td>
<td>2:00P-3:30P</td>
</tr>
<tr>
<td>308-R Curing - SOA Report</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>308-S Curing - Specifications</td>
<td>MON</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>309 Consolidation</td>
<td>SUN</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>311 Inspection</td>
<td>MON</td>
<td>8:30A-11:30A</td>
</tr>
<tr>
<td>315 Detailing</td>
<td>SUN</td>
<td>8:30A-11:30A</td>
</tr>
<tr>
<td>318 Building Code (M-1)</td>
<td>MON</td>
<td>9:00A-1:00P</td>
</tr>
<tr>
<td>318 Building Code (M-2)</td>
<td>TUE</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>318-A General, Concrete</td>
<td>MON</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>318-B Reinforcement and</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>318-C Serviceability/Safety</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>318-D Flexure and Axial Loads</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>318-E Shear and Torsion</td>
<td>MON</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>318-F Two-Way Slabs</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>318-G Prestressed Precast</td>
<td>MON</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>318-H Seismic Provisions</td>
<td>MON</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>325 Pavements</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>325-09 Construction</td>
<td>MON</td>
<td>8:30A-10:00A</td>
</tr>
<tr>
<td>325-10 Roller Compacted Concrete</td>
<td>TUE</td>
<td>10:00A-11:30A</td>
</tr>
<tr>
<td>325-32 Jointed Pavement</td>
<td>TUE</td>
<td>8:30A-10:00A</td>
</tr>
<tr>
<td>325-33 Fast Track Pavements</td>
<td>MON</td>
<td>11:30A-1:00P</td>
</tr>
<tr>
<td>325-34 Rehabilitation &amp; Restoration</td>
<td>MON</td>
<td>3:30P-5:00P</td>
</tr>
<tr>
<td>325-35 Cor. Paver Block Pavements</td>
<td>MON</td>
<td>2:00P-3:30P</td>
</tr>
<tr>
<td>325-36 Concrete Pavement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strengths</td>
<td>MON</td>
<td>10:00A-11:30A</td>
</tr>
<tr>
<td>330 Parking Lots</td>
<td>WED</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>332 Residential</td>
<td>WED</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>332-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TG1 Residential Task Group 1</td>
<td>TUE</td>
<td>2:00P-3:30P</td>
</tr>
<tr>
<td>TG2 Residential Task Group 2</td>
<td>TUE</td>
<td>11:30A-1:00P</td>
</tr>
<tr>
<td>335 Composite and Hybrid Structures</td>
<td>TUE</td>
<td>8:30A-11:30A</td>
</tr>
<tr>
<td>336 Footings</td>
<td>SUN</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>340 Design Aids for ACI Building Codes</td>
<td>MON</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>341 Earthquake-Resistant Bridges</td>
<td>SUN</td>
<td>8:30A-11:30A</td>
</tr>
<tr>
<td>342 Bridges &amp; Bridge Elements</td>
<td>SUN</td>
<td>2:00P-3:30P</td>
</tr>
<tr>
<td>343 Bridge Design</td>
<td>SUN</td>
<td>3:30P-6:30P</td>
</tr>
<tr>
<td>345 Bridge Construction</td>
<td>SUN</td>
<td>11:30A-1:00P</td>
</tr>
<tr>
<td>346 CIP Pipe</td>
<td>SUN</td>
<td>2:00P-3:30P</td>
</tr>
<tr>
<td>347 Formwork</td>
<td>TUE</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>348 Safety</td>
<td>SUN</td>
<td>5:00P-6:30P</td>
</tr>
<tr>
<td>349 Nuclear Structures</td>
<td>TUE</td>
<td>8:30A-11:30A</td>
</tr>
<tr>
<td>349-1 Materials &amp; Waste &amp;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>349-2 Repository Structures</td>
<td>MON</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>349-3 Design</td>
<td>SUN</td>
<td>2:00P-5:00P</td>
</tr>
<tr>
<td>349-3 Embedment (M-1)</td>
<td>SUN</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>349-3 Embedment (M-2)</td>
<td>MON</td>
<td>8:30A-1:00P</td>
</tr>
<tr>
<td>350 Environmental Structures (M-1)</td>
<td>SUN</td>
<td>10:00A-1:00P</td>
</tr>
<tr>
<td>350 Environmental Structures (M-2)</td>
<td>WED</td>
<td>8:30A-10:00A</td>
</tr>
<tr>
<td>350 Environmental Structures (M-3)</td>
<td>WED</td>
<td>2:00P-6:30P</td>
</tr>
<tr>
<td>350 Subcommittee Chairs</td>
<td>SUN</td>
<td>8:30A-10:00A</td>
</tr>
<tr>
<td>Time</td>
<td>Date</td>
<td>Room</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>8:30A</td>
<td>MON</td>
<td>Espalan</td>
</tr>
<tr>
<td>10:00A</td>
<td>WED</td>
<td>Magnolia</td>
</tr>
<tr>
<td>11:30A</td>
<td>SUN</td>
<td>Rampant</td>
</tr>
<tr>
<td>2:00P</td>
<td>TUE</td>
<td>Rampart</td>
</tr>
<tr>
<td>5:00P</td>
<td>WED</td>
<td>Rampart</td>
</tr>
<tr>
<td>8:30A</td>
<td>MON</td>
<td>Toulouse</td>
</tr>
<tr>
<td>10:00A</td>
<td>WED</td>
<td>Toulouse</td>
</tr>
<tr>
<td>11:30A</td>
<td>SUN</td>
<td>Toulouse</td>
</tr>
<tr>
<td>2:00P</td>
<td>TUE</td>
<td>Toulouse</td>
</tr>
<tr>
<td>5:00P</td>
<td>WED</td>
<td>Toulouse</td>
</tr>
<tr>
<td>COMM. COMMITTEE TITLE</td>
<td>DAY TIME</td>
<td>ROOM</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td>446-3 Finite Element Analysis and Fracture</td>
<td>TUE 2:00P- 3:30P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>446-4 Dynamic Fracture</td>
<td>TUE 3:30P- 5:00P</td>
<td>Burgundy B</td>
</tr>
<tr>
<td>503 Adhesives</td>
<td>TUE 2:00P- 5:00P</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>503-A Adhesives - Subcommittee</td>
<td>TUE 11:30A- 1:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>506 Shotcreting</td>
<td>TUE 8:30A- 11:30A</td>
<td>Prytania</td>
</tr>
<tr>
<td>506-A Shotcreting Subcommittee</td>
<td>TUE 3:00P- 5:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>515-A Protective Systems for Concrete - A</td>
<td>MON 11:30A- 1:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>515-B Protective Systems for Concrete - B</td>
<td>TUE 11:30A- 1:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>523 Cellular Concrete</td>
<td>MON 8:30A- 11:30A</td>
<td>Esplanade B</td>
</tr>
<tr>
<td>524 Plastering</td>
<td>MON 10:00A- 11:30A</td>
<td>Buenavista</td>
</tr>
<tr>
<td>530-MSJC Executive Committee</td>
<td>WED 7:00P- 10:00P</td>
<td>Gentilly</td>
</tr>
<tr>
<td>530-2 General Subcommittee</td>
<td>FRI 8:30A- 11:30A</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-3 Allow. Stress/Emp. Design Subcommitte</td>
<td>FRI 2:00P- 3:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-4 Limit States Subcommittee</td>
<td>FRI 8:30A- 11:30A</td>
<td>Oak Manor</td>
</tr>
<tr>
<td>530-5 Specifications Subcommittee</td>
<td>FRI 11:30A- 1:00P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-6 Editorial Task Group</td>
<td>THU 10:00A- 11:30A</td>
<td>Elmwood</td>
</tr>
<tr>
<td>530-7 Prestressed Subcommittee</td>
<td>FRI 3:30P- 5:00P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-8 Glass Block Task Group</td>
<td>THU 11:30A- 1:00P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-9 Coefficients Task Group</td>
<td>THU 2:00P- 3:30P</td>
<td>Buenavista</td>
</tr>
<tr>
<td>530-10 Modulus of Elasticity Task Group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>530-11 Inspection Task Group</td>
<td>THU 8:30A- 10:00A</td>
<td>Buenavista</td>
</tr>
<tr>
<td>530-12 Empirical Task Group</td>
<td>THU 2:00P- 3:30P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>530-13 International Standards Subcommittee</td>
<td>THU 8:30A- 10:00A</td>
<td>Elmwood</td>
</tr>
<tr>
<td>530-14 Allowable Stress. Reinfg., Details Task Group</td>
<td>THU 3:30P- 5:00P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-15 Seismic Task Group</td>
<td>THU 8:30A- 10:00A</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-16 Veneers Task Group</td>
<td>THU 2:00P- 3:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-17 Design Procedures Task Group</td>
<td>THU 11:30A- 1:00P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>530-18 Infilled Walls Task Group</td>
<td>THU 5:00P- 6:30P</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-19 Compressive Strength Task Group</td>
<td>THU 10:00A- 11:30A</td>
<td>Magnolia</td>
</tr>
<tr>
<td>530-20 Cavity Wall Task Group</td>
<td>THU 10:00A- 11:30A</td>
<td>Buenavista</td>
</tr>
<tr>
<td>530 Masonry</td>
<td>THU 11:30A- 1:00P</td>
<td>Buenavista</td>
</tr>
<tr>
<td>531 Masonry Research</td>
<td>SAT** 8:00A- 2:00P</td>
<td>Esplanade A</td>
</tr>
<tr>
<td>532 Precast Panels</td>
<td>WED 2:00P- 3:30P</td>
<td>Audubon</td>
</tr>
<tr>
<td>543 Concrete Piles</td>
<td>MON 10:00A- 1:00P</td>
<td>Elmwood</td>
</tr>
<tr>
<td>544 Fiber Reinforced</td>
<td>MON 8:30A- 5:00P</td>
<td>Audubon</td>
</tr>
<tr>
<td>544-Ex Executive Subcommittee</td>
<td>TUE 2:00P- 5:00P</td>
<td>Cabildo B</td>
</tr>
<tr>
<td>544-A Steel Fibers</td>
<td>MON NOON- 1:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>544-B Glass Fibers</td>
<td>MON 2:00P- 3:30P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>544-C Synthetic Fibers</td>
<td>MON 3:30P- 5:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>544-D Natural Fibers</td>
<td>MON 3:30P- 5:00P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>544-E FRC Seminars</td>
<td>MON 5:00P- 6:30P</td>
<td>Toulouse</td>
</tr>
<tr>
<td>546 Repair</td>
<td>TUE 8:30A- 10:00A</td>
<td>Cabildo B</td>
</tr>
<tr>
<td>548 Polymers</td>
<td>TUE 10:00A- 1:00P</td>
<td>Cabildo B</td>
</tr>
<tr>
<td>548-A Polymer Modified Concrete</td>
<td>MON 2:00P- 5:00P</td>
<td>Poydras A</td>
</tr>
<tr>
<td>548-B Polymer Concrete Overlays</td>
<td>TUE 8:30A- 11:30A</td>
<td>Cabildo A</td>
</tr>
<tr>
<td>548-D Sulfur Concrete</td>
<td>MON 10:00A- 11:30A</td>
<td>Rosedown</td>
</tr>
<tr>
<td>548-E Structural Design &amp; Analysis</td>
<td>MON 2:00P- 5:00P</td>
<td>Cabildo B</td>
</tr>
<tr>
<td></td>
<td>MON 8:30A- 10:00A</td>
<td>Rosedown</td>
</tr>
</tbody>
</table>

39
<table>
<thead>
<tr>
<th>COMM. COMMITTEE TITLE</th>
<th>DAY</th>
<th>TIME</th>
<th>ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrocement and Other Thin Reinforced Products</td>
<td>WED</td>
<td>2:00P-5:00P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>Precast Concrete Structures</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
<td>Burgundy D</td>
</tr>
<tr>
<td>Tilt-Up Construction</td>
<td>TUE</td>
<td>8:30A-1:00P</td>
<td>Audubon</td>
</tr>
<tr>
<td>Geotechnical Grouting</td>
<td>MON</td>
<td>5:00P-6:30P</td>
<td>Burgundy C</td>
</tr>
<tr>
<td>Bearing Systems</td>
<td>TUE</td>
<td>8:30A-10:00A</td>
<td>Rosedown</td>
</tr>
<tr>
<td>Removal and Reuse</td>
<td>THU</td>
<td>10:00A-1:00P</td>
<td>Ashland</td>
</tr>
<tr>
<td>Demolition</td>
<td>THU</td>
<td>8:30A-10:00A</td>
<td>Ashland</td>
</tr>
<tr>
<td>Protective Coatings</td>
<td>TUE</td>
<td>3:30P-5:00P</td>
<td>Buena Vista</td>
</tr>
</tbody>
</table>

* Friday, November 1, 1996  ** Saturday, November 9, 1996

NOTE: Committees not listed did not request a meeting at this convention or the committee has requested a closed meeting. Those committees having closed meetings have received a closed meeting schedule.

This schedule is subject to change. Please check the signs on-site to verify your meeting time.
CA QuickSearch delivers the same coverage of the worldwide literature of concrete technology as the bimonthly periodical *Concrete Abstracts*. The CD-ROM includes fourteen years--1982-1995--of international literature. And this year both DOS and Windows® 3.1 versions are available on the CD-ROM.

The CA QuickSearch annual subscription service offers each current issue of *Concrete Abstracts* on floppy disk, coinciding with the print publication. Each bimonthly issue contains 250 new abstracts. Every covered article, report, or book is assigned an abstract number and includes the document title, original language of publication (if other than English), keywords, bibliographic information, abstract, and abstract credit.

**What's the advantage?** The search software is easy to use with context-sensitive online Help designed for first-time users. Each year the CD-ROM compilation is updated to include an additional year of literature, and currently offers instant reference to over 22,000 documents.

Call ACI Member Services Department at (810) 848-3800. Demo disks are available for $25, which will be credited toward the purchase of any CA QuickSearch package.
FALL 1996
ACI EDUCATIONAL SEMINARS

ACI has scheduled ten more seminars this fall on the Changes in the ACI 318-95 Building Code and seven seminars on the Design and Construction of Slabs on Grade. More seminars on a variety of topics are planned for 1997. ACI instructors are considered the best and most professional in the concrete industry. All seminars are held in cooperation with your local ACI chapter.

318 Building Code -- this one-day seminar covers significant changes to the ACI 318 Building Code. Sponsored by the American Concrete Institute and Portland Cement Association, these seminars are held every six years coinciding with each major Code revision.

- New Orleans - November 8
- Cleveland - November 20
- Toledo - November 21
- Cincinnati - November 22
- Birmingham - December 3
- Atlanta - December 4
- Buffalo - December 4
- Austin - December 10
- Los Angeles/Anaheim - December 11
- San Francisco/Oakland - December 12

Slabs on Grade -- this one-day seminar will cover design, specification, and problem resolution on one of the most common of all concrete structures, the slab on grade.

- Detroit - November 14
- Dallas - November 19
- Atlanta - November 19
- Indianapolis - November 21
- Ft. Myers - December 3
- Philadelphia - December 5
- Oklahoma City - December 10
SEMINARS FOR 1997

Stop by the convention registration area, or call the Seminar Registrar at 810/848-3815 or fax 810/848-3801 for more detailed information.

ONE-DAY SEMINARS

- 530 Masonry Code—How to use the new 1995 edition of the 530 Masonry Code
- Concrete Repair Basics—Methods and Materials for Repair of Damaged Structures
- Troubleshooting Concrete Construction—Causes of Floor and Slab Surface Failures
- Concrete Durability—How to Design, Specify, and Construct Quality Concrete
- Seismic Retrofit of Concrete Structures—Evaluation, Analysis, Rehabilitation, Case Histories
- Concrete Site Paving—Achieving Economical Site Concrete to Minimize Future Problems & Maintenance
- Structural Lightweight Concrete—Design, Production, and Durability of Bridges and Parking Structures

TWO-DAY SEMINAR

- Designing Reinforced Concrete—Based on the ACI 318 Building Code and the ACI 340 Design Handbook
NEWLY ISSUED
FOUR NEW VIDEOTAPEs FROM ACI
SLABS ON GRADE

Design, Specification, and Construction

ACI's popular series of seminars on concrete slabs-on-grade is now available as a series of four videotapes. This six and one-half hour program includes the entire ACI seminar that has been attended by over 3000 people. For about the same price as attending the seminar you can watch the videos in your offices or at a time convenient for you. The seminar slides have been transferred to video and the speakers were recorded in a studio to yield an extremely high quality video.

TOPICS COVERED

Program 1 - 120 minutes, EV2A96
♦ Introduction
♦ Overview
♦ Myths and Misconceptions
♦ Planning and Selection
♦ Subsurface Considerations
♦ Concrete Mix Designs
♦ Proper Floor Tolerances

Program 2 - 120 minutes, EV2B96
♦ Design Input Values
♦ Thickness Design Procedures
♦ Shrinkage-Compensating Concrete
♦ Fiber Reinforced Concrete
♦ Supporting Design Information
♦ Computer Solutions

Program 3 - 120 minutes, EV2C96
♦ Overview of Post Tensioning
♦ Post-Tensioning Design Procedure
♦ Design Details
♦ Specifications

Program 4 - 35 minutes, EV2D96
♦ Problems: Identification, Cause, and Prevention
SPEAKERS

BOYD C. RINGO is a consultant based in Cincinnati, Ohio. Dr. Ringo is a former Professor in Civil Engineering at the University of Cincinnati, and has consulted on slabs on grade for over 40 years. He is a former chairman of ACI Committee 360, Design of Slabs on Grade. Under his guidance, the committee produced the most comprehensive design document on slabs on grade ever produced by ACI.

JERRY A. HOLLAND, is a Structural Engineering Consultant with Lockwood Greene Engineers and Architects in Atlanta, Georgia. He has 25 years of experience in design, construction, and troubleshooting of slabs on grade, including superflat floors. Mr. Holland is currently the chairman of ACI Committee 360, Design of Slabs on Grade.

ROBERT B. ANDERSON is a Concrete Floor Consultant in New Orleans, Louisiana with more than 25 years of experience. He has been the primary designer for several million square feet of industrial and residential slabs. In 1964, he was responsible for the design and placement of the first residential post-tensioned slab in North America. Mr. Anderson and Dr. Ringo are the authors of Designing Floor Slabs on Grade.

<table>
<thead>
<tr>
<th>Video</th>
<th>NON-MEMBER</th>
<th>MEMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program 1, EV2A96</td>
<td>$125</td>
<td>$100</td>
</tr>
<tr>
<td>Program 2, EV2B96</td>
<td>$125</td>
<td>$100</td>
</tr>
<tr>
<td>Program 3, EV2C96</td>
<td>$125</td>
<td>$100</td>
</tr>
<tr>
<td>Program 4, EV2D96</td>
<td>$ 75</td>
<td>$ 50</td>
</tr>
<tr>
<td>Package price for entire set of four tapes, EV2E96</td>
<td>$399</td>
<td>$299</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION AVAILABLE AT THE ACI PUBLICATIONS DESK
It's not too early to plan to attend the ...

1997 International Conference

High-Performance Concrete:
Design and Materials
and
Recent Advances in
Concrete Technology

December 2 - 5, 1997
Kuala Lumpur, Malaysia

This third international conference will disseminate new information in the rapidly developing areas of high-performance concrete, and concrete technology where major advances taking place and new materials, methodologies and techniques are being developed. The objective of this conference is to bring researchers, practicing engineers and technologists together to exchange new information and to explore new areas of needed research.

For further information contact:
American Concrete Institute
Member Services Department
P.O. Box 9094
Farmington Hills, MI 48333
Tel: (810) 848-3800
Fax: (810) 848-3801
STUDENT PROGRAM

SUNDAY, NOVEMBER 3
NOON - 5:00 PM

TULANE UNIVERSITY
Civil Engineering Building
Materials Testing Laboratory

CONCRETE CUBE COMPETITION

Sponsored by Committee E801 and the ACI Louisiana Chapter

Session Moderator: Kelly M. Page
Contract Training Coordinator
Portland Cement Association
Skokie, IL

Session Co-Moderator: John L. Niklaus
Professor
Department of Civil and Environmental Engineering
Tulane University
New Orleans, LA

Students interested in traveling to Tulane by shuttle bus in a group are to meet at the New Orleans Chapter Hospitality Desk located near the registration area at the Hyatt Regency Hotel.

Welcome by Tulane University Host 12:00

ACI and Convention Overview 1:00
Kelly M. Page, Contract Training Coordinator, Portland Cement Association, Skokie, IL

Mentor Program Overview 1:15
John L. Niklaus, Professor, Department of Civil and Environmental Engineering, Tulane University, New Orleans, LA

Presentation by Winner of 1996 ACI Student Concrete Projects Competition 1:30
Ryan W. Keiser, Student, Southern Illinois University at Edwardsville, Edwardsville, IL

FRP-Reinforced Concrete Beam Competition 1:45
The FRP-Reinforced Concrete Beam Competition will be held concurrently with the Concrete Cube Competition.

Adjournment 5:00
TECHNICAL SESSION

SUNDAY, NOVEMBER 3
2:00 PM - 5:00 PM
ROOM: POYDRAS A

USE OF HIGH-PERFORMANCE FIBER REINFORCED CONCRETE
FOR INFRASTRUCTURAL REPAIR AND RETROFIT: PART I

Sponsored by Committees 348 and 544

Session Moderator: Neven Krstulović-Opara
Assistant Professor
Department of Civil Engineering
North Carolina State University
Raleigh, NC

Session Co-Moderator: M. Ziad Bayasi
Associate Professor
Department of Civil and
Environmental Engineering
San Diego State University
San Diego, CA

Introduction
2:00
Neven Krstulović-Opara, Assistant Professor, Department of
Civil Engineering, North Carolina State University, Raleigh, NC

Concrete Repair at the Threshold of the 21st Century:
Focus on the Strengthening of Existing Structures
2:05
Alexander M. Vaysburd, Director, Research and Development,
and Peter H. Emmons, President, Structural Preservation
Systems, Inc., Baltimore, MD

National Science Foundation: Repair and Retrofit
2:30
with HPFRC's
John B. Scalzi, Director, Civil and Mechanical Systems,
National Science Foundation, Arlington, VA

FRC-Encased Steel Joists for Seismic Upgrading
2:55
Subhash C. Goel, Professor, and Madhusudan Khuntia,
Graduate Student, Department of Civil and Environmental
Engineering, University of Michigan, Ann Arbor, MI

Seismic Retrofit with SIMCON and SIFCON
3:25
Neven Krstulović-Opara, Assistant Professor, and
Erdem Dogan, Research Assistant, Department of Civil
Engineering, North Carolina State University, Raleigh, NC;
James M. LaFave, Research Associate, Department of Civil
and Environmental Engineering, University of Michigan,
Ann Arbor, MI; and Chia-Ming Uang, Associate Professor,
Department of Applied Mechanics and Engineering Sciences,
University of California at San Diego, La Jolla, CA

continued
TECHNICAL SESSION

SUNDAY, NOVEMBER 3
2:00 PM - 5:00 PM

ROOM: POYDRAS A

USE OF HIGH-PERFORMANCE FIBER REINFORCED CONCRETE FOR INFRASTRUCTURAL REPAIR AND RETROFIT: PART I

Sponsored by Committees 348 and 544

continued

Slurry Infiltrated Mat Concrete (SIMCON) for Rehabilitation of Bridges and Pavements
Jack Y. Zeng, Research/Teaching Associate;
Paul H. Klingenberg, Research Assistant; and
M. Ziad Bayasi, Associate Professor, Department of Civil and Environmental Engineering, San Diego State University, San Diego, CA

Repair of Berth Faces at the Port of Montréal with Fiber Reinforced Shotcrete
Dudley R. Morgan, Chief Materials Engineer, AGRA Earth and Environmental Ltd., Burnaby, British Columbia, Canada; Allen C. Lobo, Civil Engineer, Port of Montréal, Montréal, Québec, Canada; and Larry D. Rich, Senior Product Development Specialist, 3M - Construction Markets Division, St. Paul, MN

Concrete with Three Percent Fibers for Repair and Retrofit
P. N. Balaguru, Professor, Department of Civil Engineering, Rutgers, The State University of New Jersey, Piscataway, NJ; H. Andrew Franklin, Project Engineer, Research and Development, Bechtel Group, Inc., San Francisco, CA; Ronald J. Stickel, Teichert Quality Assurance, Sacramento, CA; and Sidney Mindess, Professor, Department of Civil Engineering, University of British Columbia, Vancouver, British Columbia, Canada
TECHNICAL SESSION

SUNDAY, NOVEMBER 3
2:00 PM - 5:00 PM

ROOM: REGENCY B

AERATED CONCRETE PERFORMANCE IN DISASTERS

Sponsored by Committee 523

Session Moderator: Fouad H. Fouad
Professor and Chairman
Department of Civil and Environmental Engineering
University of Alabama at Birmingham
Birmingham, AL

Introduction and Brief History
2:00
Fouad H. Fouad, Professor and Chairman,
Department of Civil and Environmental Engineering,
University of Alabama at Birmingham, Birmingham, AL

Testing Autoclaved Cellular Concrete Building Materials for Fire Resistance
2:10
Dean M. Golden, Senior Project Manager, Electric Power Research Institute, Palo Alto, CA

Shear Strength, Stiffness, and Wind Uplift Resistance of Composite Cellular Insulating Concrete Roof Deck Systems
2:30
William R. MacDonald, Vice President and Director of Technical Services, Celcore Inc., Black Mountain, NC

Resistance of AAC to Earthquakes
2:50
Peter Langer, Director of Application and Construction, Hebel AG, Emmering, Germany

AAC Resistance to Fire, Frost, Chemical Attack, Biological Sources, and Extreme Wind Load
3:10
Dieter D. G. Hums, Director, Research and Development Center, Ytong AG, Schrobenhausen, Germany

Impact Resistance and Energy Absorption of Cellular Concrete during Earthquakes and Hurricanes
3:30
Timothy D. Tonyan, Senior Member of Technical Staff, Architectural Systems Laboratory, USG Corp., Libertyville, IL

Damage Analysis of Autoclaved Aerated Concrete Block Houses
3:50
Romeo E. Miretti, Civil Engineer and Director of CECOVI; Rudy O. Gethner, Civil Engineer and Researcher; and Carlos R. Passerino, Civil Engineer and Researcher, University of National Technology, Santa Fe, Argentina

Cellular Concrete Structural Behavior under Seismic Conditions
4:10
Francisco Madla, Technical Manager, Contec Mexicana, S. A., Monterrey, Mexico

Questions and Answers
4:30
TECHNICAL SESSION

SUNDAY, NOVEMBER 3
2:00 PM - 5:00 PM

ROOM: REGENCY C

CONCRETE STRUCTURES IN THE GULF SOUTH

Sponsored by the ACI Louisiana Chapter

Session Moderator: Robert B. Anderson
Consulting Civil Engineer
Anderson Engineers, Inc.
New Orleans, LA

Introduction
Robert B. Anderson, Consulting Civil Engineer, Anderson Engineers, Inc., New Orleans, LA

Inspecting and Repairing the Piling Supporting the World’s Longest Bridge
Guy F. LeMieux, Consulting Civil Engineer, Krebs, LaSalle, LeMieux Consultants, Metairie, LA

Mat Slab Design as a Deep Beam: An Uplifting Solution!
Subhash V. Kulkarni, President, Kulkarni Consultants, APC, Metairie, LA

Fast-Track Design and Construction of Tall Retaining Walls

Nashville Avenue Wharf
William B. Cromartie, Structural Engineer, Port of New Orleans, New Orleans, LA

Enhancing Productivity and Maintenance with a Unique Two-Way Post-Tensioned, Light Reflective Floor
Jerry A. Holland, Consulting Structural Engineer, and Wayne W. Walker, Senior Structural Engineer, Lockwood Greene Engineers, Atlanta, GA

Aquarium of the Americas
Donald C. Makofsky, President, Morphy Makofsky, Inc., New Orleans, LA
**EDUCATIONAL SESSION**

**SUNDAY, NOVEMBER 3**
2:00 PM - 5:00 PM

**ROOM: POYDRAS B**

**A NEW ACI DOCUMENT: EDUCATION BULLETIN E4-96—ADMIIXTURES IN CONCRETE**

Sponsored by Committee E701

This session will discuss a newly issued document that covers the basic uses of chemical and air-entraining admixtures for concrete. *Education Bulletin E4-96* has been developed to meet the educational needs of students, craftsmen, inspectors, technicians, and all others who need an introduction to this complex topic. Our speakers will describe E4-96 in detail, and how it can be used as a valuable educational tool.

**Session Moderator:** Morris V. Huffman  
Division Manager  
Pozzolanic Northwest  
Oregon City, OR

**Session Co-Moderator:** Patrick L. McDowell  
Quality Control Manager  
Eugene Sand and Gravel  
Eugene, OR

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Introduction</td>
<td>2:00</td>
</tr>
<tr>
<td>Morris V. Huffman, Division Manager, Pozzolanic Northwest, Oregon City, OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Introduction to Admixtures</td>
<td>2:05</td>
</tr>
<tr>
<td>Patrick L. McDowell, Quality Control Manager, Eugene Sand and Gravel, Eugene, OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Air-Entraining Admixtures in Concrete</td>
<td>2:15</td>
</tr>
<tr>
<td>Paul J. Tikalsky, Associate Professor, Department of Civil Engineering, The Pennsylvania State University, University Park, PA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Water-Reducing and Strength Enhancing Chemical Admixtures</td>
<td>2:35</td>
</tr>
<tr>
<td>Charles K. Nmai, Senior Technical Manager, Marketing Department, Master Builders, Inc., Cleveland, OH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Set-Controlling Admixtures</td>
<td>3:05</td>
</tr>
<tr>
<td>Kenneth B. Rear, Manager of Technical Services, North America, Grace Construction Products, Cambridge, MA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Admixture Case Studies</td>
<td>3:35</td>
</tr>
<tr>
<td>Tarek S. Khan, Marketing Manager, Ready-Mixed Concrete, Master Builders, Inc., Cleveland, OH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*continued*
EDUCATIONAL SESSION

SUNDAY, NOVEMBER 3
2:00 PM - 5:00 PM

ROOM: POYDRAS B

A NEW ACI DOCUMENT: EDUCATION BULLETIN E4-96—ADMIXTURES IN CONCRETE

Sponsored by Committee E701

An Introduction to Other Chemical Admixtures
David M. Suchorski, Technical Service Engineer, Lehigh Portland Cement Co., Iowa Falls, IA

Chapter V of E4-96: Admixture Dispensers
Randall M. Fierke, National Technical Service and Design Specialist, Dispenser Operations, Grace Construction Products, Bedford Park, IL

Closing Remarks

continued

4:05

4:20

4:50
ACI PUBLICATIONS
ON SALE!

Stop by the ACI Publications display next to the convention registration area. See what ACI has available for sale. Purchase the technical publications that you need.

On display at super convention savings will be over ninety publications representing what’s new from ACI, hot topics that everyone is asking for, special publications developed with you in mind, and BARGAIN Books discounted to rock bottom prices.

* Standards
* Reports
* Special Publications
* Handbooks
* Periodicals
* CD-ROM
* BARGAIN Books

Publications will be on sale during the registration hours (see Page 14). You may purchase your selection with cash, check, travelers checks, VISA, MasterCard, or use your membership line-of-credit and we’ll bill you. All publications are available on a first come first served basis so stop by early and purchase the publications you want!
ACI administers programs to certify:

Concrete Field Testing Technicians
Concrete Laboratory Testing Technicians
Concrete Construction Inspectors
Concrete Transportation Construction Inspectors
Concrete Flatwork Finishers
Concrete Flatwork Technicians

In addition, programs are under development for:

Concrete Strength Testing Technicians
Shotcrete Nozzlemen
Tilt-up Construction Supervisors

These national organizations participate (cooperate) with ACI in programs to improve the quality of concrete construction:

American Society for Concrete Construction
American Society for Testing and Materials
Cement and Concrete Reference Laboratory
Concrete Construction Magazine
National Ready Mixed Concrete Association
Portland Cement Association
U.S. Army Corps of Engineers
EDUCATIONAL SESSION

MONDAY, NOVEMBER 4              ROOM: REGENCY B
7:00 AM - 8:30 AM

BREAKFAST TRAINING SESSION FOR
SESSION MODERATORS AND SPEAKERS

Sponsored by Committee E903

Session Moderator: Kenneth H. Murray
Civil Engineering Department Chair
North Carolina A&T State University
Greensboro, NC

Continental Breakfast                7:00

Convention Session Time-Lines        7:20

David G. Kittridge
Principal Engineer
Boyle Engineering Corp.
Orlando, FL

Discussion and Feedback               7:45

Evaluation and Adjournment            8:20
STUDENTS' DAY

MONDAY, NOVEMBER 4
8:00 AM - 2:00 PM

ACI and the ACI Louisiana Chapter are hosting a special day for the future leaders of our industry.

Mentor Program
Students and mentors will meet at the ACI Louisiana Chapter Hospitality Desk located near the registration area in the Hyatt Regency Hotel.

Registered students will be assigned a mentor with similar interests to attend committee meetings and technical sessions. All technical meetings are open to students.

Students to accompany their individual mentors in their morning convention activities.

Luncheon
The luncheon will be held in the Regency B room at the Hyatt Regency Hotel.

Program Commences
Announcement of winners and plaques given for the ACI Concrete Cube Competition.

Featured Speaker
"Northumberland Strait Bridge"
Walter Eggers, Senior Bridge Engineer, J. Muller International, San Diego, CA

Return to Convention Activities

Menu

Minestrone Soup
Baked Meat Marinara Lasagna
Garlic Bread and Rolls
Lattice Apple Pie
Coffee, Tea, Decaf
$18.00 per person
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON
ROOM: REGENCY C

RESEARCH IN PROGRESS

Sponsored by Committee 123

Session Moderator: Nataliya Hearn
Assistant Professor
Department of Civil Engineering
University of Toronto
Toronto, Ontario, Canada

Introduction
Nataliya Hearn, Assistant Professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

Fatigue Life of Reinforced Concrete Beams Strengthened with CFRP Sheet
Pat J. Heffernan, Assistant Professor, and Marie-Anne Erki, Professor, Department of Civil Engineering; and David L. Duquensnay, Associate Professor, Department of Mechanical Engineering, Royal Military College of Canada, Kingston, Ontario, Canada

Study of Bond Strength Between Externally Applied Carbon Fiber Reinforcement and Concrete
Alexander M. Vaysburd, Director, Research and Development, Structural Preservation Systems, Inc., Baltimore, MD; and Miroslav Vadovic, Structural Engineer, and Glen L. Hair, Vice President and Manager, Structural Department, Gannett Fleming Inc., Harrisburg, PA

Basalt Fiber for Reinforcement of Concrete
Timothy J. Langan, Senior Staff Engineer and Scientist, Ashurst Technology Center Inc., A member of the EMTECH Group of Companies, Baltimore, MD; and Victor I. Prefilov, Institute Director; M. F. Mokhova, Head; V. P. Sergeev, Director; D. D. Dzygiris, Head; and I. H. Bokharaeva, Research Secretary, Basalt Fibers Technology Department, Institute for Problems in Materials Science, The Academy of Science of The Ukraine, Kyiv, Ukraine

Restrained Shrinkage Cracking in Fiber Reinforced Shotcrete
Nemkumar P. Banthia, Professor, and Kevin Campbell, Graduate Student, Department of Civil Engineering, The University of British Columbia, Vancouver, British Columbia, Canada; and Dudley R. Morgan, Vice President and Chief Materials Engineer, AGRA Earth and Environmental, Burnaby, British Columbia, Canada

continued
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON

ROOM: REGENCY C

RESEARCH IN PROGRESS

Sponsored by Committee 123

Enhancement of the Axial Load-Carrying Capacity of Reinforced Concrete Columns by Means of Fiberglass-Epoxy Jackets
Ben L. DeVine, President, Composite Retrofit International, Montréal, Québec, Canada, and Jose I. Restrepo, Lecturer, Department of Civil Engineering, University of Canterbury, Christchurch, New Zealand

Durability Design of Post-Tensioned Bridge Substructure Elements
Jeffrey S. West, Doctoral Candidate; John E. Breen, Nasser I. Al-Rashid Chair; and Michael E. Kreger, Professor, Department of Civil Engineering, Phil M. Ferguson Structural Engineering Laboratory, The University of Texas at Austin, Austin, TX

Design Provisions for Steel-Free Deck Slabs on Beams
Aftab A. Mufti, Professor and Director, The Nova Scotia CAD/CAM Center, TUNS, The Center for Computer-Aided Engineering, Halifax, Nova Scotia, Canada, and Baidar Bakht, Principal Research Engineer, Research and Development Branch, Ministry of Transportation - Ontario, Downsview, Ontario, Canada

Application of Headed Reinforcement in Concrete Members
Tarek R. Bashandy, Graduate Research Assistant, and James O. Jirsa, Professor, Department of Civil Engineering, Phil M. Ferguson Structural Engineering Laboratory, The University of Texas at Austin, Austin, TX

Use of Bonded Anchor Systems
Rolf Elgehausen, Professor; Joerg Asmus, Doctoral Student; Borahard Lehr, Doctoral Student; and Juraj Meszaros, Research Assistant, Construction Materials Institute, University of Stuttgart, Stuttgart, Germany

Concrete Technology on the World Wide Web
Dale P. Bentz, Chemical Engineer; James R. Clifton, Chemist; Lawrence J. Kaetzel, Computer Specialist; Kenneth A. Snyder, Physicist; and Dai Zhengqing, Research Engineer (on appointment from the China Building Technology Development Center), Building Materials Division, Building and Fire Research Laboratory, National Institute of Standards and Technology, Gaithersburg, MD

continued
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM · NOON

ROOM: REGENCY C

RESEARCH IN PROGRESS

Sponsored by Committee 123

continued

Cement Hydration Observed with Synchrotron Radiation
Paulo J. M. Monteiro, Professor, and Kimberly E. Kurtis, Research Assistant, Department of Civil and Environmental Engineering, University of California at Berkeley, Richmond, CA

11:22

Preliminary Study of Permeability of Cracked Concrete
Kejin Wang, Graduate Student, NSF Center for Advanced Cement-Based Materials, Robert R. McCormick School of Engineering and Applied Science, Technological Institute, Northwestern University, Evanston, IL; Daniel C. Jansen, Assistant Professor, and Surendra P. Shah, Professor, Department of Civil and Environmental Engineering, Tufts University, Medford, MA; and Alan F. Karr, Associate Director, National Institute of Statistical Sciences, Research Triangle Park, NC

11:36

Phosphogypsum By-Product Aggregate Use in High-Strength Concrete
Mujahid T. Ali, Senior Project Engineer, Tasnim Uddin and Associates, Inc., Miami, FL, and Wen F. Chang, Professor Emeritus and Director Phosphate, Department of Engineering, University of Miami, Miami, FL

11:50
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON
ROOM: REGENCY E

STRUCTURAL CONCRETE UNDER SEVERE DYNAMIC LOADS

Sponsored by Committee 370

Session Moderator: Darrell D. Barker
Principal Engineer
Wilfred Baker Engineering
San Antonio, TX

Session Co-Moderator: Baren K. Talukdar
Principal Engineer
Westinghouse SRS
Aiken, SC

Introduction
Darrell D. Barker, Principal Engineer, Wilfred Baker Engineering, San Antonio, TX

Performance of Fiber Reinforced Concrete
Strengthening Methods under Dynamic Loads
Jay L. Thomas, Director, Sales and Marketing, and
Alexander M. Vaysburd, Director, Research and Development,
Structural Preservation Systems, Inc., Baltimore, MD; and
Howard S. Kliger, Consultant, H. S. Kliger Associates, Edison, NJ

Concrete Panel Response to Close In Blast Loading
from Spherical and Cylindrical Charges
Doug R. Kaczmarek, Project Engineer, Mason and Hanger,
Amarillo, TX

Hydrocode Analysis of 12-Inch Reinforced Concrete
Wall under Blast Loading
William H. Zehrt, Jr., Senior Structural Engineer, U. S. Army
Engineering and Support Center - Huntsville, Huntsville, AL

Investigation of Reinforced Concrete Test Cell
Explosion Accident
Darrell D. Barker, Principal Engineer, Wilfred Baker Engineering, San Antonio, TX
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON
ROOM: REGENCY F

INNOVATIVE TECHNOLOGY IN RESIDENTIAL CONSTRUCTION

Sponsored by Committee 332

Session Moderator: Raj K. Jalla
President
Consulting Engineers, Corp.
Vienna, VA

Introduction
9:00
Raj K. Jalla, President, Consulting Engineers, Corp.,
Vienna, VA

Post-Tensioned Foundation
9:05
Robert B. Anderson, President, Robert B. Anderson
Consulting Engineers, Inc., New Orleans, LA

Cost-Efficient Design of Foundations in Expansive
Soils Using State of the Art Interactive Graphics
Computer Program
9:25
H. S. Saxena, Project Engineer, and Scott Evans,
Project Manager, Consulting Engineers, Corp., Vienna, VA

Hybrid Concrete Composite, Energy Efficient Home
for Year 2001 and Beyond
9:45
Gajanan M. Sabnis, Professor, Department of Civil
Engineering, Howard University, Washington, DC

Fly Ash for Residential Concrete
10:05
Richard R. Halverson, Division Manager, and
Jennifer L. Hitch, Quality Assurance Manager,
Pozzolanic North West, Mercer Island, WA

Inclined Concrete Roofing System with
Self-Supported Insulation
10:25
Francisco G. Bermudez, President, Arber and Associates,
Miami, FL, and Jose Luis Henriquez, President, Envro Safe
Concrete Roofing System, Miami, FL

Failure in Residential Concrete
10:45
Robert L. Henry, National Secretary/Treasurer, Chi Epsilon,
University of Texas at Arlington, Arlington, TX

Design of Structural Slabs in Residential Concrete Using
State of the Art Interactive Graphics Computer Program
11:05
H. S. Saxena, Project Engineer, and Scott Evans,
Project Manager, Consulting Engineers, Corp., Vienna, VA

Insulated Concrete Forms Result in Super
Energy Efficient Homes
11:25
J. Lance Berrenberg, President, American Polysteel Forms,
Albuquerque, NM
EDUCATIONAL SESSION

MONDAY, NOVEMBER 4

9:00 AM - NOON

ROOM: REGENCY G

COMPUTERS IN PRACTICE AND EDUCATION

Sponsored by Committees E705 and E802

Session Moderator: Nur Yazdani
Professor and Associate Chairman
Department of Civil Engineering
College of Engineering
Florida Agricultural and
Mechanical University
Florida State University
Tallahassee, FL

Session Co-Moderator: Abbas Aminmansour
Professor
Department of Architectural Engineering
The Pennsylvania State University
University Park, PA

Introduction
Abbas Aminmansour, Professor, Department of Architectural Engineering, The Pennsylvania State University, University Park, PA

9:00

Multimedia Instructional Aids: Use in the Classroom
David R. Riley, Assistant Professor, Department of Construction Management, University of Washington, Seattle, WA

9:05

Educational Materials and the WWW
Nelson C. Baker, Associate Professor, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA

9:35

Use of Presentation Software in a Materials Course
John J. Schemmel, Associate Professor, Department of Civil Engineering, University of Arkansas, Fayetteville, AR

10:05

Daily Use of the WWW in the Engineering Classroom
Jonathan R. Barnett, Professor, Center for Firesafety Studies, Worcester Polytechnic Institute, Worcester, MA

10:35

Using Multimedia for a More Effective Information Presentation
Abbas Aminmansour, Professor, Department of Architectural Engineering, The Pennsylvania State University, University Park, PA

11:05

Computer Delivery of ACI Exams
William A. McConarty, Managing Director, Training Department, Sylvan Prometric, Columbia, MD

11:35
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON

ROOM: REGENCY H

USE OF HIGH-PERFORMANCE FIBER REINFORCED CONCRETE
FOR INFRASTRUCTURAL REPAIR AND RETROFIT: PART II

Sponsored by Committees 348 and 544

Session Moderator: Neven Krstulović-Opara
Assistant Professor
Department of Civil Engineering
North Carolina State University
Raleigh, NC

Session Co-Moderator: M. Ziad Bayasi
Associate Professor
Department of Civil and
Environmental Engineering
San Diego State University
San Diego, CA

Introduction
Neven Krstulović-Opara, Assistant Professor, Department of Civil Engineering, North Carolina State University, Raleigh, NC

Parameters Affecting High-Performance Response
in Fiber Reinforced Concrete
Surendra P. Shah, Director, ACBM Center, Northwestern University, Evanston, IL, and Yixin Shao, Assistant Professor, Department of Civil Engineering and Applied Mechanics, McGill University, Montréal, Québec, Canada

HPFRCC: Mechanical Properties and Applications in Repair and Rehabilitation
Antoine E. Naaman, Professor, Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor, MI

Design and Construction Procedures for SIFCON
Bruce Schneider, Consulting Engineer, Peralta, NM

Design Guidelines for Using High-Performance Fiber Reinforced Concrete in Repair/Retrofit Applications

continued
TECHNICAL SESSION

MONDAY, NOVEMBER 4
9:00 AM - NOON
ROOM: REGENCY H

USE OF HIGH-PERFORMANCE FIBER REINFORCED CONCRETE FOR INFRASTRUCTURAL REPAIR AND RETROFIT: PART II

Sponsored by Committees 348 and 544

continued

Analytical Methods for Assessment of Retrofit/Repair Techniques of RC Subassemblage with HPFRC
Enrico Spacone, Assistant Professor, and Melissa M. Harter, Graduate Student, Department of Civil, Environmental, and Architectural Engineering, University of Colorado at Boulder, Boulder, CO; and Neven Krstulović-Opara, Assistant Professor, Department of Civil Engineering, North Carolina State University, Raleigh, NC

Repair and Seismic Upgrade of Reinforced Concrete Columns using SIMCON
Gilbert C. Brunnhoeffer III, President, and Mark B. Farrell, Manager, New Products Division, Ribbon Technology Corp., Gahanna, OH; and Neil M. Hawkins, Professor and Head, and William L. Gamble, Professor, and Fatjon P. Shkurti, Graduate Student, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

High-Performance Micro-Fiber Reinforced Concrete for Thin Repairs
Nemkumar P. Banthia, Associate Professor, and Cheng Yan, Research Associate, Department of Civil Engineering, University of British Columbia, Vancouver, British Columbia, Canada

Properties and Applications of Fiber Reinforced Concretes in Infrastructural Repair and Retrofit
Maria M. Szerszen, Assistant Professor, and Krzysztof Dyduch, Professor, Department of Civil Engineering, Cracow University of Technology, Krakow, Poland
EXTREME LOADS AND LOAD COMBINATIONS

Sponsored by Committees 343 and 348

Session Moderator: Andrzej S. Nowak
Professor
Department of Civil and
Environmental Engineering
University of Michigan
Ann Arbor, MI

Introduction
Andrzej S. Nowak, Professor, Department of Civil and
Environmental Engineering, University of Michigan,
Ann Arbor, MI

Designing for Extreme Events: The Need for a
Coupled Structure and Foundation Analysis Approach
Christopher Dumas, Geotechnical Engineer, Region Three,
Federal Highway Administration, Baltimore, MD

Quantitative Risk Assessment of Scour at Bridges
Allan McCracken, Consulting Geotechnical Engineer;
Hendrik A. D. Kirsten, Principal; and Anthony G. Dell,
Consulting Civil Engineer, Steffen Robertson and
Kirsten, Ltd., Cardiff, United Kingdom

Ship and Barge Collisions with Bridges
Michael A. Knott, Branch Manager, Moffatt and Nichol
Engineers, Richmond, VA

Concrete Structures Subjected to Automobile Impact
Himat T. Solanki, Structural Engineer, South West Florida
Water Management District, Sarasota, FL

Combination of Lateral and Gravity Loads for R/C
Bridge Piers
Dan M. Frangopol, Professor, Department of Civil
Engineering, University of Colorado, Boulder, CO

Proposed Load Combination Model for Extreme Events
Andrzej S. Nowak, Professor, Department of Civil and
Environmental Engineering, University of Michigan,
Ann Arbor, MI
MONDAY, NOVEMBER 4
2:00 PM - 5:00 PM
ROOM: REGENCY E

STRENGTH EVALUATION FOLLOWING A DISASTER

Sponsored by Committee 437

Session Moderator: Brian J. Pashina
Principal Engineer
American Engineering Testing, Inc.
St. Paul, MN

Session Co-Moderator: Thomas L. Rewerts
Vice President/Chicago Regional Manager
Madsen, Kneppers & Associates, Inc.
Chicago, IL

Introduction
Brian J. Pashina, Principal Engineer, American Engineering Testing, Inc., St. Paul, MN

Post-Disaster Evaluation of Structures: When and for What Purpose?
Florian G. Barth, Principal, Florian Barth & Associates, Inc., Redwood City, CA

Strength Evaluation of Existing Concrete Structures Damaged by Hurricanes Andrew, Iniki, and Opal
Thomas L. Rewerts, Vice President/Chicago Regional Manager, and Anne M. Scanlon, Consultant, Madsen, Kneppers & Associates, Inc., Chicago, IL

It's Water Under the Bridge...and Possibly More
Daniel G. Stromberg, Chief Structural Engineer, and Michael J. Garlich, Vice President, Collins Engineers, Inc., Chicago, IL

Blast Damage: Oklahoma City and World Trade Center
Stanley C. Woodson, Research Structural Engineer, Structures Laboratory, U.S. Army Waterways Experiment Station, Vicksburg, MS, and Richard L. Tillman, Structural Engineer, New Orleans District, U.S. Army Corps of Engineers, New Orleans, LA

The Masonry Society's "Investigating Disasters" Program: An Example of a Unified Approach to Disaster Investigation
Richard E. Klingner, Professor, Department of Civil Engineering, Phil M. Ferguson Structural Engineering Laboratory, The University of Texas at Austin, Austin, TX

Case Studies of Fire-Damaged Concrete Structures: What Happens to the Reinforcing?
Richard J. Kristie, Consultant, and Gary J. Klein, Senior Consultant, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL
TECHNICAL SESSION

MONDAY, NOVEMBER 4
2:00 PM - 5:00 PM

RESEARCH ON TRANSPORTATION STRUCTURES

Sponsored by the ACI Louisiana Chapter

Session Moderator: Masood Rasoulian
Pavement/Systems Research Engineer Manager
Louisiana Transportation Research Center
Louisiana Department of Transportation and Development
Baton Rouge, LA

Introduction 2:00
Masood Rasoulian, Pavement/Systems Research Engineer Manager, Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Baton Rouge, LA

I-10 Concrete Overlay 2:05
William M. King, Accelerated Loading Facility Manager, Louisiana Transportation Research Center, Louisiana State University, Baton Rouge, LA

I-49 Construction Through Urban Areas of Alexandria, LA 2:30
Rhett A. Desselle, Project Engineer, Louisiana Department of Transportation and Development, Alexandria, LA

I-20 Early Concrete Pavement Deterioration 3:00
Doug Hood, Geotechnical Engineer, Louisiana Department of Transportation and Development, Baton Rouge, LA

Accelerated Loading Facility 3:30
John B. Metcalf, Freeport McMoRan Professor, Institute of Recyclable Materials, Louisiana State University, Baton Rouge, LA

Accelerated Curing of Concrete 4:00
J. Craig Duos, Concrete Research Engineer, Louisiana Transportation Research Center, Louisiana Department of Transportation and Development, Baton Rouge, LA
MONDAY, NOVEMBER 4

2:00 PM - 5:00 PM

ROOM: REGENCY G

SEISMIC AND WIND MITIGATION FOR STRUCTURES

Sponsored by the ACI Louisiana Chapter, Convention Committee, and Hot Topic Committee

Session Moderator: H. S. Lew
Chief, Structures Division
National Institute of Standards and Technology
Gaithersburg, MD

Session Co-Moderator: Woodward L. Vogt
President
Paradigm Consultants
Houston, TX

Introduction
H. S. Lew, Chief, Structures Division, National Institute of Standards and Technology, Gaithersburg, MD

Recent Developments in Seismic Provisions and Design Implications
James R. Harris, President, J. R. Harris & Co., Denver, CO

Recent Developments in Wind Load Provisions and Design Implications
Lawrence G. Griffis, Senior Vice President, Walter P. Moore & Associates, Houston, TX

PG & E Seismic Retrofit: Concrete Dual System Used to Reinforce Historic Steel Frame Buildings
Mark S. Jokerst, Principal, Forell/Elsesser Engineers, Inc., San Francisco, CA

Wind Engineering of 88-Story Jin Mao Tower, Shanghai, China
Mark P. Sarkisian, Associate Partner; D. Stanton Korista, Director of Structural and Civil Engineering; and Ahmad K. Abdelrazaq, Associate, Skidmore, Owings & Merrill LLP, Chicago, IL

Transfer of Wind Forces to Existing Foundation at Harrah’s New Orleans Casino
Subhash V. Kulkarni, President, Kulkarni Consultants, Metairie, LA
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
9:00 AM - NOON
ROOM: REGENCY C

SERVICEABILITY OF CABLE-STAYED BRIDGES

Sponsored by Committee 343

Session Moderator: Steven L. Stroh
Senior Bridge Engineer
Greiner, Inc.
Tampa, FL

Introduction
Steven L. Stroh, Senior Bridge Engineer, Greiner, Inc.,
Tampa, FL

Serviceability Considerations for Hong Kong’s
Kap Shui Mun Bridge
Steven L. Stroh, Senior Bridge Engineer, Greiner, Inc.,
Tampa, FL

Introduction
9:00

Inspection and Maintenance Procedures for
Cable-Stayed Bridges: A European Perspective
Reiner H. F. Saul, Managing Director, and Holger S. Svensson,
Managing Director, Leonhardt, Andrä and Partner GmbH,
Stuttgart, Germany

Inspection and Maintenance Procedures for
Cable-Stayed Bridges: A European Perspective
9:05

Maintenance of the Talmadge Memorial Bridge
Man-Chung Tang, President, DRC Consultants, Inc.,
Flushing, NY

Maintenance of the Talmadge Memorial Bridge
10:05

Maintenance and Inspection of Cable-Stayed
Bridges: An Owner’s Perspective
Charles D. Oliver, Construction Project Manager, Florida
Department of Transportation, St. Petersburg, FL

Maintenance and Inspection of Cable-Stayed
Bridges: An Owner’s Perspective
10:35

A Cable-Stayed Bridge Designed for Inspection,
Maintenance, and Durability
Ruchu Hsu, Supervising Structural Engineer, and
Vijay Chandra, Vice President and Chief Bridge Engineer,
Parsons Brinckerhoff, Inc., New York, NY

A Cable-Stayed Bridge Designed for Inspection,
Maintenance, and Durability
11:05

Improved Corrosion Protection for Bridge Stay Cables
H. R. Hamilton III, Assistant Professor, Department of Civil
and Architectural Engineering, University of Wyoming,
Laramie, WY; and Jack E. Breen, Professor, and Karl H. Frank,
Professor, Ferguson Structural Engineering Laboratory, The
University of Texas at Austin, Austin, TX

Improved Corrosion Protection for Bridge Stay Cables
11:35
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
9:00 AM - NOON

ROOM: REGENCY E

CONCRETE REPAIR WITH FRP COMPOSITES

Sponsored by Committee 440

Session Moderator: Russell L. McCullough
Vice President, Engineering
SCI Services Group, Inc.
Carrollton, GA

Introduction
Russell L. McCullough, Vice President, Engineering, SCI
Services Group, Inc., Carrollton, GA

9:05
Pre-cracked RC Beams Reinforced with FRP Sheets
Antonio Nanni, Professor, Department of Architectural
Engineering, The Pennsylvania State University, University
Park, PA; and Angelo D. Tommaso, Professor, and
Marco Arduini, Technical Officer, Department of Civil
Engineering, University of Bologna, Bologna, Italy

9:40
Freeze-Thaw Durability of Concrete Beams
Strengthened by Carbon Fiber Sheets
Khaled A. Soudki, Adjunct Assistant Professor, and
Mark F. Green, Assistant Professor, Department of Civil
Engineering, Queens University, Kingston, Ontario, Canada

10:15
Strengthening of Concrete Connections with
Carbon FRP
Brenden E. Dolan, Student; H. R. (Trey) Hamilton III,
Assistant Professor; and Charles W. Dolan, Professor,
Department of Civil and Architectural Engineering,
University of Wyoming, Laramie, WY

10:50
Tensile Testing and Durability Characteristics of
Cementitous Composites Externally Wrapped with
FRP Sheets
Houssam A. Toutanji, Associate Professor, Department
of Civil Engineering, University of Puerto Rico,
Mayaguez, PR; and Tahar El Korchi, Professor, and
Shuji Tsubota, Doctoral Candidate, Department of Civil
Engineering, Worcester Polytechnic Institute, Worcester, MA

Development of a Repair Technique Using
Confinement of Corrosion Damaged Concrete
with Advanced Composite Materials
Nataliya Hearn, Assistant Professor; Michael D. Thomas,
Assistant Professor; Shamim A. Sheikh, Professor;
Stavrula J. Pantazopoulou, Associate Professor; and
John F. Bonacci, Associate Professor, Department of Civil
Engineering, University of Toronto, Toronto, Ontario, Canada

11:25
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
9:00 AM - NOON

ROOM: REGENCY F

INFLUENCE OF BINDER MAKEUP ON DURABILITY: PART I

Sponsored by Committee 201

Session Moderator: Kenneth C. Hover

Professor and Associate Dean
Department of Civil Engineering
Cornell University
Ithaca, NY

Introduction 9:00
Donald J. Janssen, Associate Professor, Department of Civil Engineering, University of Washington, Seattle, WA

Cementing Efficiency Factors for Fly Ash: Have They Any Value? 9:05
Michael D. A. Thomas, Assistant Professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

Evaluation of Supplementary Cementitious Materials 9:30
Kenneth C. Hover, Professor and Associate Dean, Department of Civil Engineering, Cornell University Ithaca, NY; Clifford Gordon, Concrete QA Consultant, Hazan and Sawyer, PC, New York, NY; Paul J. St. John, Materials Engineer, New York State Department of Transportation, Albany, NY; and Paul Zoltanetzky, Jr., Deputy Director, New York City Bureau of Environmental Protection, Corona, NY

Influence of Binder Composition on Chloride Penetration Resistance of Concrete 9:55
Patrick F. McGrath, Construction Materials Consultant, James Neill and Associates Ltd., Vancouver, British Columbia, Canada, and R. Doug Hooton, Professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

Influence of Ca/Si and W/(C+P) on Coulomb Values of Concrete Containing Fly Ash 10:20
Richard R. Halverson, Manager, Western Washington Division, Pozzolanic Northwest, Mercer Island, WA

continued
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
9:00 AM - NOON
ROOM: REGENCY F

INFLUENCE OF BINDER MAKEUP ON DURABILITY: PART I

Sponsored by Committee 201

continued

Selecting Cementitious Systems to Prevent ASR Expansion in Concrete
Michael D. A. Thomas, Assistant Professor, and R. Doug Hooton, Professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

The Role of Binder in Sulfate Attack
Paul J. Tikalsky, Associate Professor, Civil and Environmental Engineering, The Pennsylvania State University, University Park, PA

Closing Comments
Kenneth C. Hover, Professor and Associate Dean, Department of Civil Engineering, Cornell University, Ithaca, NY
CONTRACTORS’ DAY

TUESDAY, NOVEMBER 5
9:00 AM - NOON
ROOM: REGENCY G

HOW CAN CONTRACTORS USE TESTING TO IMPROVE QUALITY OF CONSTRUCTION?

Sponsored by the Construction Liaison Committee and the ACI Louisiana Chapter

Session Moderator: Calvin J. Zenor
Marketing Manager
Delta Testing and Inspection, Inc.
New Orleans, LA

Session Co-Moderator: Frank B. Stritzinger
Project Manager
T. L. James Construction
Covington, LA

Introduction
Calvin J. Zenor, Marketing Manager, Delta Testing and Inspection, Inc., New Orleans, LA 9:00

The Time to Address Material Quality Issues Is Now, Not After the Fact
Michael P. McGowan, Vice President, Delta Testing and Inspection, Inc., Baton Rouge, LA 9:05

Using the Testing Lab to Help Investigate New Money-Saving Systems in Concrete
John J. Uhl, Vice President, Carlo Ditta, Inc., Harvey, LA 9:30

What The Corps Requires of the Contractor in Providing Quality Assurance
Bruce A. Terrell, Chief of Quality Assurance, U. S. Army Corp of Engineers, New Orleans, LA 10:00

Achieving a Consistently Superior Quality Slab for Your Clients Using “Floor Flatness” and “Floor Level” Technology during Construction
Harry G. LeBlanc, President, Cajun Concrete Services, Inc., Jefferson, LA 10:30

Quality Control as a Profit Center
James M. Shilstone, Jr., President, The Shilstone Companies, Inc., Dallas, TX 11:00

Questions and Answers 11:30
CONTRACTORS' DAY LUNCHEON

Time: NOON - 2:00 PM

Topic: "Transportation Overview: Present and Future"

Speaker: Frank M. Denton, Secretary, Louisiana Department of Transportation, Department of Transportation and Development, Baton Rouge, LA

Menu

Black Bean & Andouille Soup
Bronzed Chicken Breast
Fresh Vegetables
Fresh Rolls & Butter
Pecan Pie
Coffee and Tea
$21 per person
CONTRACTORS' DAY

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM

ROOM: REGENCY G

Sponsored by the Construction Liaison Committee, the ACI Louisiana Chapter, and Committee E702

SESSION I: DESIGN BUILD CONTRACTS -- PROS AND CONS

Session Moderator: Adam Mehn, Jr.
Chief Field Engineer
Burk-Kleinpeter, Inc.
New Orleans, LA

Introduction
Debrethann R. Cagley Orsak, Manager, Business Development, Cagley & Associates, Inc., Rockville, MD

Future of Design Build Construction: Contractor's View
Dipak T. Parekh, Quality Assurance/Quality Control Manager, Silverado Constructors, Irvin, CA

Engineer's View of Design Build Construction
Richard Apple, Vice President, Cagley & Associates, Inc., Rockville, MD

Advantages of Design Build Construction for Owners
Mark K. Erdly, Project Manager, U. S. Navy, EFA Chesapeake, Washington, DC

SESSION II: CONSTRUCTION EDUCATION -- WHAT CAN IT DO FOR YOU?

Session Moderator: Adam Mehn, Jr.
Chief Field Engineer
Burk-Kleinpeter, Inc.
New Orleans, LA

What is Construction Education?
Luke M. Snell, Professor and Chair of Construction, Southern Illinois University, Edwardsville, IL

A New Graduate's First Year
John W. Hooker, Project Superintendent, Korte Construction Co., Highland, IL

Reflections of a Past Graduate
Thomas D. Verti, Vice President, Charles Pankow Builders, Ltd., Altadena, CA

Status of Construction Education in Southeast U. S. A.
Adam Mehn, Jr., Chief Field Engineer, Burk-Kleinpeter, Inc., New Orleans, LA
EDUCATIONAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM

ROOM: REGENCY C

DEVELOPING DESIGN CRITERIA FOR ESSENTIAL FACILITIES

Sponsored by Committee E702

Session Moderator: David G. Kittridge
Principal Engineer
Boyle Engineering Corp.
Orlando, FL

Introduction
David G. Kittridge, Principal Engineer, Boyle Engineering
Corp., Orlando, FL

What Do You Mean There's a 64 Percent Chance My
Building Will Fail?
David G. Kittridge, Principal Engineer, Boyle Engineering
Corp., Orlando, FL

Setting Wind Criteria
Kishor C. Mehta, Professor, Department of Civil
Engineering, and Director, Wind Engineering Research
Center, Texas Technical University, Lubbock, TX

Setting Seismic Criteria
S. K. Ghosh, Director, Portland Cement Association,
Skokie, IL

Questions and Answers

2:00
2:10
3:00
3:45
4:30
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM
ROOM: REGENCY E

OPEN PAPER SESSION

Sponsored by TAC

Session Moderator:  Khaled S. Soubra
Bridge Design Engineer
T. Y. Lin International
Alexandria, VA

Introduction
Khaled S. Soubra, Bridge Design Engineer, T. Y. Lin
International, Alexandria, VA

Ductility of FRP Reinforced Concrete Beams:
A Parametric Study
P. N. Balaguru, Professor, and Ghassan Habib, Graduate
Student, Department of Civil and Environmental Engineering,
Rutgers, The State University of New Jersey, Piscataway, NJ

Rational Development of Release Strength Criteria for
Prestressed Concrete Members
Sami W. Tabsh, Professor, Department of Civil and
Environmental Engineering, University of Houston, Houston,
TX; Alex Aswad, Professor, Department of Civil Engineering
Technology, Penn State Harrisburg, Middleton, PA; and
R. Jerome Frost, Structural Engineer, Sheladin and
Associates, Camp Hill, PA

High-Performance Concrete for Pavement Patching
John J. Schemmel, Associate Professor, Department of
Civil Engineering, University of Arkansas, Fayetteville, AK

Improved Efficiency and Aesthetics for Short and
Moderate Span Bridges
Sarah L. Billington, Graduate Research Assistant, and
John E. Breen, Professor, Department of Civil Engineering -
Structures, Phil M. Ferguson Structural Engineering
Laboratory; and D. Andrew Vernooy, Professor, School of
Architecture, The University of Texas at Austin, Austin, TX

Improved Shear Ductility of Pretensioned Concrete
Beams by Inclusion of Horizontal Mild Reinforcement
Bruce W. Russell, Assistant Professor, and James H. Allen III,
Graduate Research Assistant, School of Civil Engineering and
Environmental Science, University of Oklahoma, Norman, OK

continued
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM

ROOM: REGENCY E

OPEN PAPER SESSION

Sponsored by TAC

continued

A New Design Approach for Slabs-on-Ground 3:45
Wayne W. Walker, Senior Structural Engineer, Lockwood Greene Engineers, Norcross, GA, and Jerry A. Holland, Structural Engineering Consultant, Lockwood Greene Engineers, Atlanta, GA

150 MPa Concrete with Large Ductility 4:05
Bendt K. Aarup, Manager of CRC Marketing, Aalborg Portland A/S, Aalborg, Denmark

Physical Models for Concrete Structures: Their Role in the New Engineering Curriculum 4:25
Harry G. Harris, Professor, Department of Civil and Architectural Engineering, Drexel University, Philadelphia, PA, and Gajanand M. Sabnis, Professor, Department of Civil Engineering, Howard University, Washington, DC

Prediction of the Adiabatic Temperature Rise of High-Strength Concrete Using Low Heat Portland Cement 4:45
Tatsumi Ohta, Research Engineer; Nobuyuki Yamazaki, Chief Research Engineer; and Akira Nishida, Research Engineer, Institute of Technology, Shimizu Corp., Tokyo, Japan
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM

ROOM: REGENCY F

INFLUENCE OF BINDER MAKEUP ON DURABILITY: PART II

Sponsored by Committee 201

Session Moderator: R. Doug Hooton
Professor
Department of Civil Engineering
University of Toronto
Toronto, Ontario, Canada

Introduction
Donald J. Janssen, Associate Professor, Department of Civil Engineering, University of Washington, Seattle, WA

Paste Content, Air Content, and ACI Recommendations
Kenneth C. Hower, Professor and Associate Dean, Department of Civil Engineering, Cornell University, Ithaca, NY

Aging Effects on the Freeze-Thaw and Deicing Salt Resistance of Concrete with Different Types of Cement
Rainer Auberg, Assistant Research Engineer, and Max J. Setzer, Professor, Department of Civil Engineering, Institute of Building Physics and Materials Science, University of Essen, Essen, Germany

Freezing and Thawing Durability of Low Water to Cement Ratio Concretes
Richard E. Weyers, Professor, Department of Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, and Mohsen G. Kashi, Visiting Professor, Department of Civil Engineering, Tufts University, Boston, MA

Freeze-Thaw and Freeze-Deicing Salt Resistance of Concretes Containing Cement Rich in Granulated Blast Furnace Slag
Jochen Stark, Professor, and Horst-Michael Ludwig, Professor, Department of Civil Engineering, F. A. Finger Institute of Building Materials Science, Bauhaus University, Weimar, Germany

continued
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 5:00 PM

INFLUENCE OF BINDER MAKEUP ON DURABILITY: PART II

Sponsored by Committee 201

Influence of Supplementary Cementitious Materials on the Amount of Freezable Moisture in Concrete
Donald J. Janssen, Associate Professor, Department of Civil Engineering, University of Washington, Seattle, WA;
Mark B. Snyder, Associate Professor, Department of Civil and Mineral Engineering, Minneapolis, MN; and
Mark A. Buenting, Project Engineer, Sellen Construction, Seattle, WA

Deicer Scaling Resistance of GGBFS Concretes
Mark D. Luther, Manager of Technical Services-GranCem (Cement), HOLNAM, Inc., Weirton, WV

Closing Remarks
R. Doug Hooton, Professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

continued

3:45

4:10

4:30
TECHNICAL SESSION

TUESDAY, NOVEMBER 5
2:00 PM - 6:00 PM

ROOM: REGENCY H

ROLE OF BRIDGE EVALUATION IN DISASTER MITIGATION

Sponsored by Committee 342

Session Moderator: Harold R. Sandberg
Chairman of the Board
Alfred Benesch & Co.
Chicago, IL

Introduction
2:00
Harold R. Sandberg, Chairman of the Board, Alfred
Bnesch & Co., Chicago, IL

Underwater Evaluation of Bridge Substructures
2:05
Richard Avent, Chairman, and Mohamed A. Alawady,
Associate Professor, Department of Civil and Environmental
Engineering, Louisiana State University, Baton Rouge, LA

Effects of Formwork Fires during Bridge Construction
2:30
Fernando A. Branco, Professor; I. Cabrita Neves, Associate
Professor; and Joaquim C. Valente, Assistant Professor,
Department of Civil Engineering, IST Technical University
of Lisbon, Lisbon, Portugal

Preparation for Post-Disaster Response
3:00
Donald F. Sorgenfrei, Senior Vice President, Modjeski
and Masters, Inc., New Orleans, LA

Philosophy of Bridge Evaluation After a Catastrophic
Event
3:30
Richard A. Lawrie, Senior Associate, T. Y. Lin International,
Alexandria, VA, and W. Fred Dotson, Assistant Structural/
Bridge Engineer, Virginia Department of Transportation,
Richmond, VA

Post-Earthquake Evaluation of Bridges on California
Highways
4:00
James E. Roberts, Director, Engineering Services, and Chief
Structures Engineer, California Department of Transportation,
Sacramento, CA

General Discussion: "Planning for Post-Disaster
Bridge Evaluation"
4:30
TUESDAY, NOVEMBER 5
7:30 PM - 10:00 PM

CHLORIDE LIMITS FOR CONCRETE:
WHO SETS THEM AND WHO CARES?

Sponsored by Committee 123

Session Moderator: Glenn W. DePuy
Consultant
Denver, CO

Session Co-Moderator: Robert L. Henry
National Secretary/Treasurer
Chi Epsilon
University of Texas at Arlington
Arlington, TX

Introduction 7:30
Glenn W. DePuy, Consultant, Denver, CO, and
Robert L. Henry, National Secretary/Treasurer, Chi
Epsilon, University of Texas at Arlington, Arlington, TX

Educator’s Viewpoint 7:40
Brian B. Hope, Professor, Department of Civil Engineering,
Queen’s University, Kingston, Ontario, Canada

Researcher’s Viewpoint 7:50
William F. Perenchio, Senior Consultant, Wiss, Janney,
Elstner Associates, Inc., Northbrook, IL

Investigator’s Viewpoint 8:00
Bernard E. Erlin, President, The Erlin Co., Latrobe, PA

Transportationist’s Viewpoint 8:10
Donald R. Jackson, Senior Project Manager, Office of
Technology Applications, Federal Highway Administration,
Washington, DC

Material Manufacturer’s Viewpoint 8:20
Kenneth B. Rear, Manager, Technical Services - North
America, W. R. Grace & Co., Cambridge, MA

Questions and General Discussion 8:30
MOONLIGHT ON THE MISSISSIPPI DINNER CRUISE

7:00 PM - 10:00 PM
$37.00/Cash Bar

A trip to New Orleans would not be complete without a toe-tapping night time jazz adventure on the Mississippi River. Step on board the Cajun Queen paddle wheeler and cruise with us into the night, against a sparkling skyline where sleepless activity of America's busiest ports buzzes. Enjoy a Creole buffet and the excitement of a live Jazz Trio. After dinner, enjoy your cocktails and dance as the jazz is hot and river breeze is cool.

***Menu***

RAP SESSION/ CONTINENTAL BREAKFAST

WEDNESDAY, NOVEMBER 7
8:30 AM - 9:30 AM

RAP SESSION AND
CONTINENTAL BREAKFAST

A complimentary continental breakfast will be served from 8:30 AM - 9:00 AM, with the Rap Session beginning at 9:00 AM. Complete the question card in your convention packet or present your question personally at the session.

WHAT DO YOU KNOW ABOUT ACI?

Jim Pierce
President
and
George F. Leyh
Executive Vice President

Invite YOU to ask them!
GENERAL SESSION

WEDNESDAY, NOVEMBER 6
10:00 AM - NOON

Session Moderator: Om P. Dixit
Vice President
Burk-Kleinfelter, Inc.
New Orleans, LA

Welcome to New Orleans
Om P. Dixit, Vice President, Burk-Kleinfelter, Inc.,
New Orleans, LA

Phil M. Ferguson Lecture
"Self-Compacting High-Performance Concrete"
Hajime Okamura, Professor,
Department of Civil Engineering,
University of Tokyo, Tokyo, Japan

Certificates of Appreciation

Introduction of Officers of International Associations

Introduction of International Visitors

Recognition of Chapter Officers Present

Recognition of Past Presidents Present

Keynote Address:
"Olympics, Baseball, or Business -- There Must be Teamwork to Succeed"
Skip Bertman
Baseball Head Coach
Louisiana State University
Baton Rouge, LA
• 1996 National College Baseball Champions
• 1996 Head Coach of the U. S. Olympic Baseball Team

Closing Remarks
STANDARDS PRESENTATION

WEDNESDAY, NOVEMBER 6

ROOM: REGENCY D

To begin 5 minutes after the General Session.

Session Moderator: Jim Pierce
Leadership Team
Technical Service Center
U. S. Bureau of Reclamation
Denver, CO

Proposed New Standard Specification for
“Cast-In-Place Architectural Concrete (ACI 303.1-XX)”

Presented by Robert W. Nussmeier, Chairman, Committee 303

*Note: The General Session is anticipated to conclude between 11:30 and NOON.
EDUCATIONAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM

ROOM: CABILDO C

METHODS OF TEACHING THE DESIGN OF CONCRETE STRUCTURES

Sponsored by Committees E702 & E802

Session Moderator: Julian Snyder
Director of Civil Engineering
Duchscherer Oberst Design
Buffalo, NY

Introduction
Julian Snyder, Director of Civil Engineering, Duchscherer Oberst Design, Buffalo, NY

2:05

A New Approach to Teaching Structural Analysis and Design
Kenneth H. Murray, Professor and Chair, Department of Civil Engineering, and W. Mark Mc Ginley, Associate Professor, Department of Architectural Engineering, North Carolina A&T State University, Greensboro, NC

Implementation of a Structured Design Project in a First Course in Structural Concrete Design
Andrew Scanlon, Professor, Department of Civil Engineering, The Pennsylvania State University, University Park, PA, and Mary E. Kendall, Director of Institutional Research, St. Mary’s College, Notre Dame, IN

Teaching Reinforced Concrete Design: An Architectural Engineering Approach
Thomas E. Boothby, Assistant Professor, Department of Architectural Engineering, The Pennsylvania State University, University Park, PA

Reinforced Concrete Teaching is an Aggregate Endeavor
Richard W. Furlong, Professor, Department of Civil Engineering, The University of Texas at Austin, Austin, TX

Training for Duty
Robert B. Austin, Director of Technical Services, National Precast Concrete Association, Indianapolis, IN

Computer Aided Concrete Teaching: A New Medium for Teaching the Design of Prestressed Concrete
John B. Newman, Head of Structures Section and Director CRIC, Technology and Medicine, Department of Civil Engineering, Imperial College, London, England, UK
TECHNICAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM
ROOM: REGENCY C

TECHNOLOGY TRANSFER:
IDENTIFICATION OF CUTTING EDGE TECHNOLOGY

Sponsored by the TAC Technology Transfer Committee

Session Moderator:  
Tony C. Liu  
Directorate of Research and Development  
U. S. Army Corps of Engineers  
Washington, DC

Introduction
Tony C. Liu, Directorate of Research and Development,  
U. S. Army Corps of Engineers, Washington, DC

2:00

Anchor Requirements for Headed Reinforcement
James D. Jirsa, Professor, Department of Civil Engineering,  
and Tarek Bashandy, Graduate Research Assistant, Ferguson  
Structural Engineering Laboratory, The University of Texas  
at Austin, Austin, TX; and Richard N. DeVries, Assistant  
Professor, Department of Civil Engineering, Oklahoma State  
University, Stillwater, OK

2:05

Use of Advanced Composites for Bridge
Infrastructure Renewal
Frieder Seible, Professor, Division of Structural Engineering,  
The University of California at San Diego, La Jolla, CA

2:35

Use of High Strength Welded Reinforcement Grids  
for Confining Concrete
Hanns U. Baumann, President, Baumann Research and  
Development Corp., Newport Beach, CA, and  
Murat Saatcioglu, Professor, Department of Civil  
Engineering, University of Ottawa, Ottawa, Ontario, Canada

3:05

Durability Assessment of High-Performance Concrete
R. Doug Hooton, Professor, Department of Civil Engineering,  
University of Toronto, Toronto, Ontario, Canada

3:35

Extrusion Technology: From Laboratory to Market
Yixin Shao, Assistant Professor, Department of Civil  
Engineering and Applied Mechanics, McGill University,  
Montréal, Québec, Canada; and Herman J. Yost, Industrial  
Program Director, and Surendra P. Shah, Professor and  
Director, NSF Center of Advanced Cement Based Materials,  
Northwestern University, Evanston, IL

4:05

Development of Precast Pipe Products Using  
Reactive Powder Concrete
William M. Dowd, Executive Vice President, HDR Engineering,  
Inc., Omaha, NE, and Edward F. O’Neil, Supervisory Civil  
Engineer, U. S. Army Engineer Waterways Experiment  
Station, Vicksburg, MS

4:35

89
TECHNICAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM

ROOM: REGENCY F

LESSONS LEARNED FROM THE PAST

Sponsored by Committee 120

Session Moderator: Laurel Dovich
Assistant Professor
School of Engineering
Walla Walla College
College Place, WA

Introduction
Laurel Dovich, Assistant Professor, School of Engineering,
Walla Walla College, College Place, WA

2:00

The First Use of Specified Strength Concrete in North America
R. Doug Hooton, Professor, Department of Civil Engineering,
University of Toronto, Toronto, Ontario, Canada; and
P. K. Mukherjee, Principal Engineer, and H. Gil Caratin,
Senior Engineer, Ontario Hydro Technologies, Etobicoke,
Ontario, Canada

2:05

The Erie Canal -- Creator of America's Concrete and Engineers
Billie G. Snell, Educational Consultant, Snell's Educational Enterprises, Edwardsville, IL, and Luke M. Snell, Professor and Chair of Construction, Southern Illinois University at Edwardsville, Edwardsville, IL

2:34

Evaluation of Historic Concrete Structures
Jerome P. O'Connor, Principal Engineer, Law Engineering and Environmental Services, Inc., Itasca, IL; James M. Cutts, President, Cutts and Associates, Washington, DC; Gregory R. Yates, Associate Vice President, Frederick Harris, Inc., Philadelphia, PA; and Carlton A. Olson, Senior Engineer, Construction Technology Laboratories, Inc., Skokie, IL

3:03

Turning Concrete to Gold
Raymond C. Haun, Executive Director, New York Concrete Construction Institute, Inc., New York, NY

3:32

Architectural Cast-In-Place Concrete: Thirty Years of Transition
James M. Shilstone, Sr., Chairman, The Shilstone Companies, Inc., Dallas, TX

4:01

A Lesson from Ancient Roman Concrete: Durability Based on Artificial Pozzolanic Mortar
Joseph Davidovits, President, Cordi-Geopolymer SA, Saint-Quentin, France, and Frédéric Davidovits, Researcher, Center for Research and Study of Antiquities, University of Caen, Caen, France

4:30
TECHNICAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM
ROOM: REGENCY G

POLYMER CONCRETE OVERLAYS ON INDUSTRIAL FLOORS

Sponsored by Committee 548

Session Moderator: Floyd E. Dimmick, Sr.
Technical Director
Armitage Industries, Inc.
Thermal-Chem Division
Elk Grove Village, IL

Introduction to Polymer Concrete Floor Overlays 2:00
Floyd E. Dimmick, Sr., Technical Director, Armitage Industries, Inc., Thermal-Chem Division, Elk Grove Village, IL

Investigation of Waterspot and Blush Resistance
of Epoxy Industrial Floors 2:30
Peter A. Lucas, Lead Application Chemist, and
Paula A. Clark, Principal Research Chemist, Air Products and Chemicals, Inc., Allentown, PA

Development and Performance of Antimicrobial
Reactive Acrylic Polymer Concrete Flooring Systems
Using a Polymeric Active Antimicrobial Agent 3:00
Wilfried H. Riesterer, President, Silikal Resin Systems, Waterbury, CT

Effect of Metallic Monomers in PC Floor Overlays 3:30
David W. Fowler, Professor, Department of Civil
Engineering, University of Texas at Austin, Austin, TX

Decorative Thermoset Flooring 4:00
Robert R. Cain, President, KRC Associates, Inc., Milford, OH

General Discussion 4:30

91
TECHNICAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM
ROOM: REGENCY H

ACI 301-96 STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE: NOT JUST FOR BUILDINGS ANYMORE

Sponsored by Committee 301

Session Moderator: Aimee Pergalsky
National Specifications Consultant
Engineering Services Group
Master Builders, Inc.
Cleveland, OH

Introduction
Aimee Pergalsky, National Specifications Consultant,
Engineering Services Group, Master Builders, Inc.,
Cleveland, OH

The Development of ACI 301-96, Format and Organization
Timothy L. Moore, Senior Civil/Structural Engineer,
San Diego Gas & Electric, San Diego, CA

Section 1 - General Requirements
Domingo J. Carreira, President, D. J. Carreira & Associates, Chicago, IL

Section 2 - Formwork and Form Accessories
Oleh B. Ciuk, Project Engineering Manager, Raytheon Engineers & Constructors, Inc., Philadelphia, PA

Section 3 - Reinforcement and Reinforcement Support
David P. Gustafson, Vice President of Engineering, Concrete Reinforcing Steel Institute, Schaumburg, IL

Section 4 - Concrete Mixtures
Gilbert Haddad, Chief Specialist, Concrete and Materials,
SNC-Lavalin Environment Inc., St. Laurent, Québec, Canada

Section 5 - Handling, Placing and Constructing
Timothy L. Moore, Senior Civil/Structural Engineer,
San Diego Gas & Electric, San Diego, CA

Section 6 - Architectural Concrete
Oswin Keifer, Jr., Materials Engineer, U.S. Army Corps of Engineers, North Pacific Division, Portland, OR

continued
TECHNICAL SESSION

WEDNESDAY, NOVEMBER 6
2:00 PM - 5:00 PM
ROOM: REGENCY H

ACI 301-96 STANDARD SPECIFICATION FOR STRUCTURAL
CONCRETE: NOT JUST FOR BUILDINGS ANYMORE

Sponsored by Committee 301

continued

Section 7 - Lightweight Concrete
Roy H. Keck, Director of Marketing, Blue Circle Williams,
Marietta, GA

Section 8 - Mass Concrete
James A. Lee, Senior Engineer, Duke Engineering & Services,
Inc., Charlotte, NC

Section 9 - Prestressed Concrete
Steven R. Close, Principal, Jorgensen, Hendrickson and
Close Engineering, Inc., Denver, CO
TECHNICAL SESSION

THURSDAY, NOVEMBER 7
9:00 AM - NOON

ROOM: REGENCY A

BEHAVIOR AND DESIGN ISSUES IN EARTHQUAKE RESPONSE OF CONCRETE BRIDGES

Sponsored by Committee 341

Session Moderator: Andrew W. Taylor
Research Structural Engineer
Building and Fire Research Laboratory
National Institute of Standards and Technology
Gaithersburg, MD

Co-Moderator: Nancy E. Bobb
Division Bridge Engineer
Federal Highway Administration
Sacramento, CA

Introduction
Andrew W. Taylor, Research Structural Engineer, Building and Fire Research Laboratory, National Institute of Standards and Technology, Gaithersburg, MD

A Summary Report on the State of the Art of Seismic Analysis and Design of Concrete Bridge Systems
Steven L. Stroh, Senior Structural Engineer, Greiner, Inc., Tampa, FL

Federal Highway Administration's Seismic Design of Bridges
Robert F. Mast, Senior Principal, and M. Lee Marsh, Project Engineer, BERGER/ ABAM Engineers, Inc., Federal Way, WA; and James W. Keeley, Bridge Design Engineer, Federal Highway Administration, Central Federal Lands Highway Division, Denver, CO

Seismic Shear Capacity of Reinforced Concrete Bridge Columns
Julio A. Ramirez, Professor, and Mete A. Sozen, Kettlehut Distinguished Professor of Structural Engineering, School of Civil Engineering, Purdue University, West Lafayette, IN; and Colleen M. Konwinski, Structural Engineer, Teng and Associates, Chicago, IL

continued
TECHNICAL SESSION

THURSDAY, NOVEMBER 7
9:00 AM - NOON

ROOM: REGENCY A

BEHAVIOR AND DESIGN ISSUES IN EARTHQUAKE RESPONSE
OF CONCRETE BRIDGES

Sponsored by Committee 341

Seismic Retrofitting of Reinforced Concrete
Columns Using Carbon Tow Sheet
John F. Stanton, Professor; Gregory A. MacRae,
Assistant Professor; and Kirk J. Nosho, Graduate
Research Assistant, Department of Civil Engineering,
University of Washington, Seattle, WA

Seismic Retrofitting of Bridge Column -
Pier Cap Connections
David H. Sanders, Associate Professor, and
M. “Saiid” Saiidi, Professor, Department of Civil
Engineering, University of Nevada at Reno, Reno, NV; and
Troy L. Martin, Associate Engineer, Bridge Division,
Nevada Department of Transportation, Carson City, NV

Colton Interchange Fault Rupture Study
and Seismic Retrofit
John M. Tehaney, Senior Engineer; John C. Scales,
Supervising Engineer; and Thomas K. Cooper,
Supervising Engineer, Parsons Brinckerhoff Quade and
Douglas, Inc., Sacramento, CA; and Alex Kromotat,
Vice President, and Robyn M. Mutobe, Engineer,
SC Solutions, Inc., Mountain View, CA
TECHNICAL SESSION

THURSDAY, NOVEMBER 7
9:00 AM - NOON

ROOM: REGENCY B

DESIGN OF TWO-WAY SLAB SYSTEMS USING
ELASTIC FRAME ANALOGIES

Sponsored by Committee 421

Session Moderator: Herschell Gill
President
Herschell Gill Consulting Engineers, Inc.
Coral Gables, FL

Concept and Background of Elastic Frame Analogies for Two-Way Slab Design
Sidney H. Simmonds, Professor Emeritus, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada

Analysis Formulation for Plane Frame Programs
William L. Gamble, Professor, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, IL

Flexural Design and Selection of Reinforcement
S. K. Ghosh, Director of Engineering Services, Codes, and Standards, Portland Cement Association, Skokie, IL

Deflection Considerations in Slab Design
Andrew Scanlon, Professor, Department of Civil Engineering, The Pennsylvania State University, University Park, PA

Post-Tensioned Slabs
Ned H. Burns, Zarrow Centennial Professor - Engineering, Department of Civil Engineering, The University of Texas at Austin, Austin, TX

Design for Punching Shear
Sami H. Megally, Doctoral Candidate, and Amin Ghali, Professor, Department of Civil Engineering, University of Calgary, Calgary, Alberta, Canada

96
THURSDAY, NOVEMBER 7

SULFUR POLYMER CONCRETE

Sponsored by Committee 548

Session Moderator: Alan H. Vroom
Chairman
Starcrete Technologies, Inc.
Calgary, Alberta, Canada

Examinations of Early Sulfur Concrete Installations
Howard A. Okumura, Process Engineer, Cominco, Ltd., Trail, British Columbia, Canada
9:00

Composition for Durability of a Chempruf-Modified Sulfur Concrete
Bo Göran Hellers, Associate Professor, and Amon Raphael Makenya, Research Scientist, Building Engineering Division, Royal Institute of Technology, Stockholm, Sweden
9:25

Sulfur Concrete Application in Commercial Scale Projects: Field Considerations
David W. Whitmore, National Sales Manager, Vector Construction, Ltd., Winnipeg, Manitoba, Canada, and Sean M. Crick, Regional Manager, Vector Construction, Ltd., Saskatoon, Saskatchewan, Canada
9:50

Comparison of Performance of Sulfur Concrete Applied by Different Methods
Peter J. Nevin, General Manager, Projects, Construction Equipment Services, Kya Sand, Randburg, South Africa
10:15

Sulfur Concrete: An Ideal Material for Precast Products
Alan H. Vroom, Chairman, Starcrete Technologies, Inc., Calgary, Alberta, Canada
10:40

Chempruf Concrete: Research and Technology Developments, Construction Equipment Evolution, and Project Case Histories
James A. Reace, President, GRC, Inc. - Chempruf, Clarksville, TN
11:00

Slide Showcase of Chilean Experience with Sulfur Concrete
C. Andreas Vorwerk, President, Vorwerk y Cia, S.A., Santiago, Chile
11:25

General Discussion
11:45
TECHNICAL SESSION

THURSDAY, NOVEMBER 7
9:00 AM - NOON
ROOM: REGENCY E

BLAST-RESISTANT DESIGN: PART I

Sponsored by Committee 370

Session Co-Moderators:
Abi Assadi
Manager of Structural Engineering
AEC Engineering, Inc.
Minneapolis, MN

Theodor Krauthammer
Professor
Department of Civil and Environmental Engineering
The Pennsylvania State University
University Park, PA

Stanley C. Woodson
Research Structural Engineer
U.S. Army Engineer Waterways Experiment Station
Vicksburg, MS

Loads and Design Capabilities
Stanley C. Woodson, Research Structural Engineer,
U.S. Army Engineer Waterways Experiment Station,
Vicksburg, MS; William H. Zehrt, Jr., Structural Engineer,
U.S. Army Corps of Engineers, Huntsville Division,
Huntsville, AL; and Darrell D. Barker, Jr., Principal Engineer, Wilfred Baker Engineering, San Antonio, TX

Computational and Simulation Capabilities
David W. Hyde, Research Structural Engineer, Structures Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS; Theodor Krauthammer, Professor, Department of Civil and Environmental Engineering, The Pennsylvania State University, University Park, PA

Structural Behavior
Abi Assadi, Manager of Structural Engineering, and Husseain Shawna, Structural Engineer, AEC Engineering, Inc., Minneapolis, MN; and Theodor Krauthammer, Professor, Department of Civil and Environmental Engineering, The Pennsylvania State University, University Park, PA

Blast-Resistant Closures and Accessories
Timothy S. Blackburn, Manager, Design Group, Overly Manufacturing Co., Greensburg, PA, and David R. Coltharp, Research Physicist, Structures Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS
TECHNICAL SESSION

THURSDAY, NOVEMBER 7
2:00 PM - 5:00 PM
ROOM: REGENCY E

BLAST-RESISTANT DESIGN: PART II

Sponsored by Committee 370

Session Co-Moderators: Abi Assadi
Manager of Structural Engineering
AEC Engineering, Inc.
Minneapolis, MN

Theodor Krauthammer
Professor
Department of Civil and
Environmental Engineering
The Pennsylvania State University
University Park, PA

Stanley C. Woodson
Research Structural Engineer
U.S. Army Engineer Waterways
Experiment Station
Vicksburg, MS

Design Application 1 - Internal Blast, Small Explosive Charge
Abi Assadi, Manager of Structural Engineering, and
Hussain Shanaa, Structural Engineer, AEC Engineering, Inc., Minneapolis, MN

Design Application 2 - Internal Blast, Large Explosive Charge
William H. Zehrt, Jr., Structural Engineer, U.S. Army Corps of Engineers, Huntsville Division, Huntsville, AL,
and Stanley C. Woodson Research Structural Engineer,
U.S. Army Engineer Waterways Experiment Station,
Vicksburg, MS

Design Application 3 - External Blast
William L. Bounds, Principal Design Engineer, Structural Engineering Department, Fluor Daniel, Inc., Sugar Land, TX,
and Darrell D. Barker, Jr., Principal Engineer, Wilfred Baker Engineering, San Antonio, TX

General Discussion and Questions
Sam A. Kiger, Professor and Chairman, Department of Civil Engineering, West Virginia University,
Morgantown, WV, and Theodor Krauthammer, Professor, Department of Civil and Environmental Engineering, The Pennsylvania State University, University Park, PA

99
THURSDAY, NOVEMBER 7
2:00 PM - 5:00 PM

ROOM: REGENCY B

TECHNICAL SESSION

DESIGN OF TWO-WAY SLAB SYSTEMS USING
THEOREMS OF PLASTICITY

Sponsored by Committee 421

Session Moderator: Thomas C. Schaeffer
Principal
Stan Lindsey and Associates
Nashville, TN

Design of Two-Way Slab Systems Using Theorems of Plasticity: History and Concept
Sidney H. Simmonds, Professor Emeritus, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada
2:00

Yield-Line Theory
William L. Gamble, Professor, Department of Civil Engineering, University of Illinois at Urbana - Champaign, Urbana, IL
2:30

The Strip Method for Flexural Design of Two-Way Slabs
Scott D. B. Alexander, Professor, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada
3:00

A Strip Method of Design for Punching Shear
Scott D. B. Alexander, Professor, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada
3:30

Detailing for Serviceability
David M. Rogowsky, Professor, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada
4:00

Design for Severe Dynamic Loads
Stanley C. Woodson, Research Structural Engineer, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS, and Theodor Krauthammer, Professor, Department of Civil Engineering, The Pennsylvania State University, University Park, PA
4:30
1995 CHANGES IN THE ACI-318 BUILDING CODE

The Rules Have Changed
For design and construction of reinforced concrete buildings, the rules are the ACI 318 Building Code. And the rules have changed! Learn about all the changes at an intensive one-day seminar. Whether you work with the code once a year or several times a day, this seminar is not to be missed!

Sponsored by the American Concrete Institute, the Portland Cement Association, and the ACI Louisiana Chapter.

Seminar Moderator: Mike A. Choudhry
Vice President
Rahman and Associates, Inc.
Metairie, LA

Registration Opens 8:00
Session I Starts 8:30
Lunch (included in your registration fee) NOON
Session II Starts 1:00
Questions and Answers 4:30
Session Ends 5:00

Registration includes a free copy of ACI 318-95 and PCA Notes on 318, a $150.00 value!

Speakers are:

Robert F. Mast, Chairman of the Board, BERGER/ABAM Engineers, Inc., Federal Way, WA. Mr. Mast is the immediate Past President of ACI and serves as a member of ACI 318.

S. K. Ghosh, Director of Engineering Services, Codes and Standards, Portland Cement Association, Skokie, IL. Dr. Ghosh also serves as a member of ACI 318.

Registration for this seminar is not included in the convention registration fee. There is an additional fee of $279 for ACI members or $324 for nonmembers.

• SEPARATE REGISTRATION FEE
PERSONAL LOG
1996 FALL CONVENTION

Delegate's Name__________________________

SUNDAY, NOVEMBER 3, 1996
8:30 AM -
10:00 AM
10:00 AM -
11:30 AM
11:30 AM -
NOON
5:00 PM
1:00 PM
2:00 PM -
3:30 PM

2:00 PM - SESSIONS:
Use of High-Performance Fiber Reinforced Concrete for Infrastructural Repair & Retrofit: Part I Poydras A
Aerated Concrete Performance in Disasters Regency B
Concrete Structures in the Gulf South Regency C
A New ACI Document: Education Bulletin E4-95—Admixtures in Concrete Poydras B

3:30 PM -
5:00 PM
5:00 PM -
6:30 PM

6:30 PM - Opening Night Reception/Cash Bar Regency D
7:30 PM

MONDAY, NOVEMBER 4, 1996
8:30 AM -
10:00 AM

9:00 AM - SESSIONS:
Research in Progress Regency C
Structural Concrete Under Severe Dynamic Loads Regency E
Innovative Concrete Technology in Residential Construction Regency F
Computers in Practice and Education Regency G
MONDAY, NOVEMBER 4, 1996

9:00 AM - SESSIONS:
NOON Use of High-Performance Fiber Reinforced Concrete for Infrastructural Repair & Retrofit: Part II Regency H

10:00 AM - 

11:30 AM - 

11:30 AM - 

1:00 PM - 

NOON - Student Luncheon Regency B

2:00 PM - 

2:00 PM - 

3:30 PM - 

2:00 PM - SESSIONS:
5:00 PM Extreme Loads and Load Combinations Regency C

Strength Evaluation Following a Disaster Regency E

Research on Transportation Structures Regency F

Hot Topic: Seismic and Wind Mitigation for Structures Regency G

3:30 PM - 

5:00 PM - 

5:00 PM - 

6:30 PM -

TUESDAY, NOVEMBER 5, 1996

8:30 AM - 

10:00 AM - 

9:00 AM - SESSIONS:
NOON Serviceability of Cable-Stayed Bridges Regency C

Repair with FRP Composites Regency E

Influence of Binder Makeup on Durability: Part I Regency F


10:00 AM - 

11:30 AM - 

11:30 AM - 

1:00 PM -
TUESDAY, NOVEMBER 6, 1996

NOON - Contractors’ Day Luncheon
Regency B

2:00 PM •

3:30 PM •

2:00 PM • SESSIONS:
Developing Design Criteria for Essential Facilities
Regency C

5:00 PM • TAC Open Paper Session
Regency E

Influence of Binder Makeup on Durability:
Part II
Regency F

Bridge Evaluation in Disaster Mitigation
Regency H

Contractors’ Day, Part II:
Session 1 - Future of Design Build Contracts:
Pros and Cons
Session 2 - Construction Education: What Can It Do For You?
Regency G

3:30 PM •

5:00 PM •

5:00 PM •

6:30 PM •

7:00 PM • Moonlight on the Mississippi Dinner Cruise
10:00 PM •

7:30 PM • Forum 123: Are the ACI CL Limits Acceptable?
Regency C
10:00 PM •

WEDNESDAY, NOVEMBER 6, 1996

8:30 AM • RAP Session Breakfast
Regency E

9:30 AM •

8:30 AM •

10:00 AM •

10:00 AM NOON • General Session
Regency D

NOON • Standards Presentation
Regency D

1:00 PM •

2:00 PM •

3:30 PM •

2:00 PM • SESSIONS:
Methods of Teaching the Design of Concrete Structures
Cabildo C

Technology Transfer: Identification of Cutting Edge Technology
Regency C
**WEDNESDAY, NOVEMBER 6, 1996**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 PM</td>
<td><strong>SESSIONS:</strong></td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Lessons Learned from the Past</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Regency F</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>ACI 301-96 Standard Specification for Structural Concrete: Not Just for Buildings</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Regency H</td>
</tr>
<tr>
<td>6:30 PM</td>
<td></td>
</tr>
<tr>
<td>6:30 PM</td>
<td></td>
</tr>
<tr>
<td>8:00 PM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Concrete Mixer</td>
</tr>
<tr>
<td></td>
<td>Grand Ballroom</td>
</tr>
<tr>
<td></td>
<td>New Orleans Hilton Riverside &amp; Towers</td>
</tr>
</tbody>
</table>

**THURSDAY, NOVEMBER 7, 1996**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td></td>
</tr>
<tr>
<td>10:00 AM</td>
<td></td>
</tr>
<tr>
<td>9:00 AM</td>
<td><strong>SESSIONS:</strong></td>
</tr>
<tr>
<td>NOON</td>
<td>Behavior and Design Issues in Earthquake Response of Concrete Bridges</td>
</tr>
<tr>
<td></td>
<td>Regency A</td>
</tr>
<tr>
<td></td>
<td>Design of Two-Way Slab Systems Using Elastic Frame Analogies</td>
</tr>
<tr>
<td></td>
<td>Regency B</td>
</tr>
<tr>
<td></td>
<td>Sulfur Polymer Concrete: A Truly Unique Product</td>
</tr>
<tr>
<td></td>
<td>Regency C</td>
</tr>
<tr>
<td></td>
<td>Blast-Resistant Design: Part I</td>
</tr>
<tr>
<td></td>
<td>Regency E</td>
</tr>
<tr>
<td>10:00 AM</td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td></td>
</tr>
<tr>
<td>11:30 AM</td>
<td></td>
</tr>
<tr>
<td>1:00 PM</td>
<td></td>
</tr>
<tr>
<td>2:00 PM</td>
<td></td>
</tr>
<tr>
<td>3:30 PM</td>
<td></td>
</tr>
<tr>
<td>2:00 PM</td>
<td><strong>SESSIONS:</strong></td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Design of Two-Way Slab Systems Using Theorems of Plasticity</td>
</tr>
<tr>
<td></td>
<td>Regency B</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>Blast-Resistant Design: Part II</td>
</tr>
<tr>
<td>5:00 PM</td>
<td></td>
</tr>
<tr>
<td>5:00 PM</td>
<td></td>
</tr>
<tr>
<td>6:30 PM</td>
<td></td>
</tr>
</tbody>
</table>
ACI FUTURE CONVENTIONS

1997 Spring Convention
April 6-11
Seattle Westin Hotel
Warwick Hotel
Seattle, Washington
Convention Theme:
Concrete and the Environment

1997 Fall Convention
November 9-14
Atlanta Hilton & Towers
Atlanta, Georgia
Convention Theme:
Durability

1998 Spring Convention
March 29-April 3
Hyatt Regency Houston
Houston, Texas
Convention Theme:
Structural Design

1998 Fall Convention
October 26-30
Westin Century Plaza
Los Angeles, California
Convention Theme:
Seismic Constructibility

1999 Spring Convention
March 14-18
Hyatt Regency Chicago
Chicago, Illinois
Convention Theme:
High-Performance Concrete

ACI International
P.O. Box 8094
Farmington Hills, MI 48333
Phone: 810-848-3700
FAX: 810-848-3701
Member Services
FAX: 810-848-3800

Thank you for attending the
ACI 1996 Fall Convention.
See you in Seattle!