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**ACI Spring 2001 Convention**  
*March 25 - 30, 2001*  
*Philadelphia, Pennsylvania*

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President
James O. Jirsa

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Terence C. Holland

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Florian G. Barth
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MEADOW BURKE
Meadow Burke Products

MUNICIPAL TESTING
Municipal Testing Laboratories, Inc.

Phoenix Corporation
Phoenix Corporation
ACI MEMBERS, GUESTS, AND SPOUSES

Welcome to Philadelphia!

ACI has the privilege of holding its 2001 Spring Convention in the wonderful city of Philadelphia. So much of our country’s history originated in this city and the surrounding area. While you are at the convention renewing acquaintances with old friends and making new ones, you must take advantage of the tours and programs that the local Delaware Valley Chapter has arranged for convention attendees and their guests.

Don’t miss the Concrete Mixer – Building a Nation. The Philadelphia Convention theme is “Constructibility: From Concept to Completion.” Constructibility comes up in all aspects of concrete technology and there will be technical sessions addressing a variety of issues related to the theme. The Contractors’ Day program has been expanded for this convention to include an exposition and product demonstrations along with Contractors’ Day sessions.

We know that to attract more people to careers in engineering and science, we need to start early. The Chapter Forum will center around using a science kit for middle school students to acquaint them with concrete and motivate them to learn more about a material used every day but that they know little about.

Marion and I look forward to meeting you at the Spring Convention. We hope you have a great time in Philadelphia.

Jim Jisa
GREETINGS:

It gives me great pleasure to welcome The American Concrete Institute to Philadelphia and the Commonwealth of Pennsylvania.

Pennsylvania is a proud Commonwealth that boasts a past rich in accomplishment and a future full of promise. More than three centuries ago, when William Penn founded Pennsylvania, he created a society built on the ideas of community, individual freedom, and representative self-government. The site of the signing of the Declaration of Independence and the birth place of the United States Constitution, our commonwealth embodies the principles that founded, guided and progressed this nation for more than two centuries. As a Commonwealth, Pennsylvania cherishes the historical, social and cultural arts of our people and communities as emblems of enduring significance and influential character to the entire nation.

As you survey the vast resources, the natural beauty and the friendly people throughout this region, it comes as no surprise that residents and visitors find that there are many truly memorable ways to see and experience Pennsylvania. Visiting Philadelphia and Vicinity will allow you to discover the qualities that make this region such an enriching place to visit - the goodness of its people, the richness of its historical significance, and its geographic diversity. With this area's beauty and vibrancy, I am confident that you will discover a "memory to last a lifetime."

On behalf of all Pennsylvanians, I would like to welcome you to Philadelphia and to the Commonwealth of Pennsylvania. Best wishes for a successful convention and an enjoyable visit.

[Signature]

TOM RIDGE
Governor
Call for Papers
ACI 5th International Conference
Cancun, Mexico, December 10-13, 2002

Theme: Innovation in Design with
Emphasis on Seismic, Wind and
Environmental Loading and Quality
Control and Innovation in
Materials/Hot Weather Concreting

Suggested Topics:

Innovations in Design
- New Design Methods
- Advances in Flexural Mechanics
- Role of Fibers in HPC to Control
  Fire Damage

Seismic, Wind and Environmental Loading
- Innovative Designs for Controlling
  Damage Due to Seismic Loading
- Design Codes: How Codes from
  Various Countries Differ
- Recent Case Histories of Damage
  Due to Earthquakes
- Seismic Design for Very Tall Buildings

Quality Control and Innovations in
Materials/Hot Weather Concreting
- Quality Control and Quality
  Assurance in Concrete Construction
- Accelerated Tests for Quality Control
- Control Charts
- New Materials for Construction
  Including New Fibers, Recycled
  Concrete and Recycled Tires, Glass, etc.
- Control of High-Performance Concrete
- Hot Weather Concrete: What is New
- Role of Superplasticizers in Hot
  Weather Concreting
- Performance of High-Performance Concrete
  Incorporating Fly Ash/Slag/Silica Fume/
  Pozzolans/Metakaolin for Hot Weather
- Curing Compounds: Can They Be Used
  for Concrete Incorporating High Volumes
  of Supplementary Cementing Materials?
- Case Histories
- Specifications and Hot Weather Concreting

Submission of 200 word abstract
due by May 15, 2001. Forward abstracts to:

Phyllis Erebor, Speaker Manuscript Liaison
ACI International
P.O. Box 9094
Farmington Hills, MI 48333-9094
Phone 248/848-3784; Fax 248/848-3701
E-mail PERebor@aci-int.org
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Eastern Gunite
John Jasczak
Keystone Cement
A.L. Patterson Company
USI MidAtlantic
Valley Forge Laboratories
H. Wilden Associates
Wiss Janney Elstner Associates

CONTRIBUTORS
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ACI NE Ohio Chapter
Blue Circle Cement
Hanson Pipe & Products
A.W. Lookup Company
NTH Consultants, Ltd.
Joseph Ware

Sponsors are listed as of
March 1, 2001
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Mid-Atlantic Precast Association

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Paul D. Spiegel
Pennoni Associates, Inc.

Secretary/Treasurer
Judson F. Vogdes
General Building Contractors Association

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Widener University

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Edwin W. Drum
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Richard A. Esslinger
Ewing Cole Cherry Brott

Steve Mitchell
DePaul Concrete Co.

Joseph N. Ware
Master Builder Technologies
ACI DELAWARE VALLEY CHAPTER
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Pennoni Associates, Inc.

David A. VanOcker
CVM Engineers, Inc.

Concrete Mixer
R. Victor Scotese
L&M Construction Chemicals

Michael J. Ricchezza
B. Pietrini & Sons

Contractors’ Day/Exhibits
Michael S. Smith
Concrete Artisans, LLC

William G. Sebastian
AmeriSteel

Fundraising
John B. Cupchak
B. Pietrini & Sons

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High Concrete Structures, Inc.
Guest Program
David & Lorraine Fielding
David J. Fielding Co.

Publicity
Monica M. Schultes
Mid-Atlantic Precast Association

Student Program
Vicki L. Brown
Widener University

Technical Program
William A. Gillespie
Kling Lindquist
J. Paul Hobelmann
Kling Lindquist

Treasurer
Helmuth Wilden
H. Wilden & Associates

The Delaware Valley Chapter
table will be located in Franklin Hall B.
GENERAL INFORMATION

CONVENTION REGISTRATION
The ACI staff is eager to answer any questions you may have pertaining to the convention. The ACI Registration Desk will be open in the Franklin Hall Foyer during the following hours:

- Saturday: 2:00 PM - 6:00 PM
- Sunday: 8:00 AM - 5:30 PM
- Monday: 8:00 AM - 5:00 PM
- Tuesday: 8:00 AM - 5:00 PM
- Wednesday: 8:00 AM - 4:00 PM
- Thursday: 8:00 AM - 12:00 PM

EDUCATIONAL SEMINAR REGISTRATION
- Friday: 7:45 AM - 8:00 AM

NAME BADGES
Name badge ribbons are color coded for identification as follows:

- Member: Navy
- Guest: Tan
- Student: Green
- Staff: Maroon

Name badges MUST be worn to all functions for entrance.

ATTENTION ACI MEMBERS!
First-time convention attendees have a BELL on their badge. Please welcome them to ACI!

ATTENTION CHAIRMEN, SESSION MODERATORS & SPEAKERS

The Speaker Ready Room will be available for your use from Friday, March 23 - Wednesday, March 28:
- 7:00 AM - 7:00 PM,
- Thursday, March 29,
- 7:00 AM - 5:00 PM,
in Conference Suite 2.

Copying Service, PCs with printers, caramates and overheads will be available for your use.

Audio and video taping are strictly prohibited without the expressed written consent of the speaker.
GENERAL INFORMATION

COFFEE BREAKS
Beverages will be available on Level 4 at the following times:

<table>
<thead>
<tr>
<th>Day</th>
<th>Times</th>
</tr>
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<tbody>
<tr>
<td>Sunday</td>
<td>9:00 AM &amp; 2:00 PM</td>
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<tr>
<td>Monday</td>
<td>9:00 AM &amp; 2:00 PM</td>
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<tr>
<td>Tuesday</td>
<td>9:00 AM &amp; 2:00 PM</td>
</tr>
<tr>
<td>Wednesday</td>
<td>9:00 AM &amp; 2:00 PM</td>
</tr>
</tbody>
</table>

ACI ALCOHOL POLICY
All ACI-sponsored receptions will offer nonalcoholic beer and soft drinks. No alcohol will be served to anyone under the age of 21.

TRANSPORTATION AROUND TOWN
Taxis are available from the Philadelphia Marriott at the Filbert Street Exit.

AIRPORT TRANSPORTATION
Shuttle service to the airport is available through USA Limo. The fee is $8 one way. Advance reservations are recommended. The concierge can assist you in making reservations.

Taxi service to the Philadelphia International Airport is $20 flat fee fare.

The train is also available for a $5 one-way fee. From the hotel take the Market Street Exit to the train station.

FUTURE CONVENTION INFORMATION
If you would like to receive information for future ACI Conventions via e-mail, please e-mail your name and e-mail address to conventions@aci-int.org.
WHERE'S THAT MEETING ROOM?

Lobby Level

JW's Restaurant

Level 3

Conference Suite 2 (Speaker Ready Room) CS2
Conference Room 301 301
Conference Room 302 302
Conference Room 303 303
Conference Room 304 304
Conference Room 305 305
Conference Room 306 306
Conference Room 307 307
Conference Room 308 308
Conference Room 309 309
Conference Room 310 310

Access the following rooms from the Level 3 Skybridge:

Independence Ballroom 1 Ind 1
Independence Ballroom 2 Ind 2
Independence Ballroom 3 Ind 3

Liberty Ballroom A Liberty A
Liberty Ballroom B Liberty B
Liberty Ballroom C Liberty C

PA Conv. Center Grand
Grand Hall
# WHERE'S THAT MEETING ROOM?

## Level 4

| Conference Room 401 | 401 |
| Conference Room 402 | 402 |
| Conference Room 403 | 403 |
| Conference Room 404 | 404 |
| Conference Room 405 | 405 |
| Conference Room 406 | 406 |
| Conference Room 407 | 407 |
| Conference Room 408 | 408 |
| Conference Room 409 | 409 |
| Conference Room 410 | 410 |
| Conference Room 411 | 411 |
| Conference Room 412 | 412 |
| Conference Room 413 | 413 |
| Conference Room 414 | 414 |
| Conference Room 415 | 415 |

Franklin Hall B  Franklin B
Franklin Hall Foyer  ACI Registration

## Level 5

| Conference Room 501 | 501 |
| Conference Room 502 | 502 |
| Grand Ballroom A | Salon A |
| Grand Ballroom B | Salon B |
| Grand Ballroom C | Salon C |
| Grand Ballroom D | Salon D |
| Grand Ballroom E | Salon E |
| Grand Ballroom F | Salon F |
| Grand Ballroom G | Salon G |
| Grand Ballroom H | Salon H |
| Grand Ballroom I | Salon I |
| Grand Ballroom J | Salon J |
| Grand Ballroom K | Salon K |
| Grand Ballroom L | Salon L |
Sponsored by the ACI Delaware Valley Chapter

Exhibits will be open throughout the convention. Please see the sign outside Franklin Hall B for the dates and times for which exhibits will be open.

Exhibitors are listed as of February 22, 2001. An updated listing will be located outside of Franklin Hall B.

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<td>Columbia, Maryland, USA</td>
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<td>Middlebranch, Ohio, USA</td>
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<td>Germann Instruments, Inc.</td>
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<td>Collegeville, Pennsylvania, USA</td>
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<td>Master Builders Technologies, Inc.</td>
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<td>Booth Number(s)</td>
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<td>Sika Corporation</td>
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<td>Lyndhurst, New Jersey, USA</td>
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<td>Silica Fume Association</td>
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<td>Fairfax, Virginia, USA</td>
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<td>Mocksville, North Carolina, USA</td>
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<td>King of Prussia, Pennsylvania, USA</td>
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<tr>
<td>W. R. Grace</td>
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<tr>
<td>Cambridge, Massachusetts, USA</td>
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</table>
SPECIAL EVENTS

ATTENTION FUTURE SESSION MODERATORS

Session Moderator Orientation Workshops
Sunday, March 25  11:30 AM – 1:00 PM  Salon K
Monday, March 26  11:30 AM – 1:00 PM  Salon K

All moderators of convention sessions are required by TAC and EAC to attend one of these orientation workshops. If you will be a moderator for a session at a future convention, and have not yet attended one of the workshops, please attend either workshop on Sunday or Monday at this convention.

Sunday, March 25

STUDENT EGG PROTECTION DEVICE COMPETITION
1:00 PM – 5:00 PM

Sponsored by Committee E801 & the ACI Delaware Valley Chapter

Get “egg-cited” and cheer for your favorite university at the annual ACI Student Egg Protection Device Competition! Remember, today’s students are tomorrow’s concrete industry leaders.
SPECIAL EVENTS

Sunday, March 25

WELCOME RECEPTION
Salons E - H
6:30 PM – 7:30 PM

Hosted by the ACI Delaware Valley Chapter & ACI International

Kick off your convention week with this cash bar reception. Meet your friends and colleagues for a cocktail and light refreshments before going to dinner. Note: Beverages for this event must be paid with cash and cannot be charged to your room.

Don’t forget to make your dinner reservations for after the Welcome Reception. Philadelphia has hundreds of great restaurants. See the concierge for assistance.

HOT TOPIC SESSION:
Salons C & D
STRONG QUAKE ROCKS
PACIFIC NORTHWEST
7:30 PM – 9:30 PM

Sponsored by the Hot Topic Committee

Don’t miss this report by five prominent structural engineers from the Seattle area on the Nisqually Earthquake that hit the Pacific Northwest.

Reported as the biggest, this quake rocked the Puget Sound at 10:55 a.m., February 28, 2001. Lasting 30 seconds before subsiding, it registered 6.8 magnitude and was felt as far away as Salt Lake City – 700 miles away!

While no apparent damage of modern buildings was reported, many URM buildings sustained damage. We will hear from the speakers how buildings designed using modern seismic codes and retrofitted buildings performed in this earthquake.

This will be a session you won’t want to miss!

Beverages and refreshments will be available for purchase.
STUDENT ORIENTATION SESSION
8:00 AM – 9:00 AM

This session, designed for students, is an overview of the American Concrete Institute – what it is, why it exists, and how it functions. Topics will include ACI’s mission, strategic plan, organization, technical and education committee structures, and convention format and other issues that are of special interest to students.

At the conclusion of the Orientation Session, mentors will be available to attend committee meetings and technical sessions with interested students. The meetings and sessions are open to all students.
SPECIAL EVENTS

Monday, March 26

✓ STUDENT LUNCHEON Liberty A
12:00 PM – 2:00 PM
$36 per person

Sponsored by E801 & the ACI Delaware Valley Chapter

After lunch, awards will be given for the Student Egg Protection Device Competition.

In addition, the Educational Activities Committee will honor Om P. Dixit as the “2000 Educational Committee Member of the Year.”

Speaker: D. Kirk Harman  
President  
Cagley, Harman & Associates  
King of Prussia, PA

Topic: A Case Study in Constructibility

Highlighting the Student Luncheon will be a presentation by Kirk Harman of Cagley, Harman & Associates.

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have dietary restrictions.

Refer to page 81 for the luncheon menu.

✓ Separate Fee Required
SPECIAL EVENTS

Monday, March 26

WOMEN IN ACI
5:00 PM – 6:00 PM
Ind 3
Join other ACI women for this informal reception and networking opportunity. Refreshments will be served.

CONCRETE MIXER –
Building a Nation
6:30 PM – 8:00 PM
Grand
Hosted by the ACI Delaware Valley Chapter
Join us in the Grand Hall at the Reading Train Shed. Enjoy lively conversation with our forefathers and sample hors d'oeuvres and spirits.
Scheduled entertainment for the evening will include:

6:30 PM   The Fralinger String Quartet
7:30 PM   Mummers
8:00 PM   Ben Franklin

Tuesday, March 27

CHAPTER FORUM –
Getting Chapters Involved with Students
7:30 AM – 8:30 AM
Salon I
Sponsored by the Chapter Activities Committee
It’s fun! It’s easy! It’s educational! Students will be amazed that something they thought of as “heavy” can be used in so many ways.
This session will demonstrate how students react to information presented. This will be a “hands-on” experience for high school and grade school students, who will actually get to make concrete.
A must for chapters who want to get involved in students’ activities.
SPECIAL EVENTS

Tuesday, March 27

EXPO & DEMONSTRATIONS
Franklin B
9:00 AM – 11:30 AM
2:00 PM – 4:00 PM

Sponsored by the ACI Delaware Valley Chapter

Don't miss this day-long event held in the exhibit area. Watch product & concrete sampling demonstrations and cheer on engineering teams as they meet during the forming competition. See who will be awarded the Golden Hammer.

Refer to the schedule posted outside Franklin B for the demonstration schedule.

✓ CONTRACTORS' DAY
Liberty A
LUNCHEON
12:00 PM – 2:00 PM
$38 per person

Hosted by: Construction Liaison Committee (CLC) & the ACI Delaware Valley Chapter

Speaker: Kenneth G. Hover
Professor
Cornell University
Ithaca, NY

Casting durable, air-entrained concrete only begins with mix design and admixtures – it ends with mixing, transport, placing, consolidation, and finishing. Hear how these steps can affect air content and bubble size. The end result depends on construction technique and on testing.

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have dietary restrictions.

Refer to page 101 for the luncheon menu.

✓ Separate Fee Required
Tuesday, March 27

CONTRACTORS' DAY RECEPTION & FORUM
4:30 PM – 6:00 PM

Sponsored by the ACI Delaware Valley Chapter, ACI International, and the American Society of Concrete Contractors (ASCC).

Discover the benefits of becoming an ACI member and network with fellow contractors.

This forum will invite nonmembers in attendance to join the ranks of ACI membership. Refreshments will be served.

HOT TOPIC SESSION:
SLAB MOISTURE & FLOOR-COVERING FAILURES – WHO'S TO BLAME?
6:30 PM – 9:00 PM

Sponsored by the Hot Topic Committee & the ACI Delaware Valley Chapter

Moisture emission from concrete slabs and the resulting failure of floor coverings has become a common, perplexing problem to building owners, contractors, specifiers, and manufacturers over the last 10 years. Problems such as blistering of floor tiles and separation of seams have pitted contractors and manufacturers against owners and specifiers. Damage claims and lawsuits are mounting.

The majority of these problems are the result of vapor emission. Learn what causes this and how to avoid such problems. Learn the answer to the question, “Who’s to blame for floor moisture problems?”
SPECIAL EVENTS

Wednesday, March 28

✓ INTERNATIONAL LUNCHEON & PROGRAM
12:00 PM – 2:00 PM
$40 per person

Sponsored by the International Committee (IC)

Moderator: Gajanan M. Sabnis
Consultant
Silver Spring, MD

Speakers: Wafeek S. Wahby
Coordinator
Industrial Tech. Program
Eastern Illinois University
Charleston, IL

Jo Coke
Consultant
Coke Communications
Chattanooga, TN

Topic: China’s Three Gorges Dam

Wafeek Wahby will present a summary of a report on the largest dam in the world – China’s Three Gorges Dam. The information and observations were gathered during his visit in the summer of 2000.

The second part of the program will focus on the human side.
Jo Coke, past president of ACI, led a People-to-People Ambassadors delegation to China last November, and will present this side of the story.

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have dietary restrictions.

Refer to page 120 for the luncheon menu.

✓ Separate Fee Required
✓ AWARDS BREAKFAST  Salons E & F
8:00 AM – 10:00 AM
$35 per person

Don’t miss out as ACI honors the men and women who have contributed to better constructed facilities. Come meet and congratulate them on their achievements to the concrete industry.

Also join us in saying “Thank you” to those who will join the ranks of Honorary Membership.

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have dietary restrictions.

Refer to page 127 for the Awards Breakfast menu.

✓ Separate Fee Required
Thursday, March 29

GENERAL SESSION
Salons E & F
10:15 AM – 12:00 PM

After the Awards Breakfast, plan to attend the Spring 2001 Convention General Session.

Speaker: Richard J. Farley
Principal
Kling Lindquist
Faculty
University of Pennsylvania
Pennsylvania

Topic: Philadelphia's Role in the Concrete Industry

Now that you’ve been able to see a little of Philadelphia, come and hear the role the city has had in the advancement of concrete structures. Richard Farley will give an overview, with highlights of four projects from different time periods.

Speaker: James O. Jirsa
Professor/Chairman
Dept. of Civil Engineering
University of Texas – Austin
Austin, TX
President
ACI International

Hear a short presidential speech by James Jirsa as he gives an overview of his year as President. The new ACI officers will also be announced.
GUEST TOURS

Any Day

Philadelphia Trolley Tour
Sun.: 9:30 am – 4:00 pm
Mon. - Thurs.: 10:00 am – 4:00 pm
$18 per person

Visit Independence Hall, the Betsy Ross House, Liberty Bell, Antique Row, and many other sites the easy way – ride the Philadelphia Trolley! This fully narrated tour offers on-and-off privileges and lasts from 90 minutes to all day.

NOTE: Trolley passes are valid for one (1) day only. A second day pass may be purchased for $6.00. For this purchase, you must turn in your original pass at the end of the day to the trolley operator. Admission to additional attractions not included.

Monday, March 26

Historic Homes & City Tavern Tour
9:15 am - 2:30 pm
$45 per person

This tour begins with an overview of two of the finest authentic early American houses. See why the Mount Pleasant Georgian Mansion built in 1763 was described as “the most elegant seat in Pennsylvania.” Then go back in time when you visit the Cedar Grove. This charming 1784 farmhouse will transport you back to simpler times. Let your taste buds experience the food of 18th century colonial America when you lunch at the Old City Tavern.
(40 pp minimum)

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Guest tours are nonrefundable.
Tuesday, March 27

Fonthill & Moravian Tile Works
9:15 am – 3:00 pm
$42 per person

Your trip would not be complete without a visit to Fonthill. This national historic landmark, dubbed the “concrete castle,” was built in 1910 entirely of hand-mixed concrete and contains 44 rooms, 18 fireplaces, 32 stairwells, and more than 200 windows. Visit another hand-mixed concrete marvel, the Moravian Tile Works. This is where the creator of Fonthill, Henry Mercer, produced exquisite tiles and mosaics which adorn floors, walls, and ceilings throughout the world. Later enjoy lunch at the historic Plumsteadville Inn.

(40 pp minimum)

NOTE: Comfortable walking shoes are recommended. There are approximately 75-100 steps during this tour.

Wednesday, March 28

Brandywine River Museum & Chaddsford Winery
9:15 am – 3:00 pm
$38 per person

Tour through what was once a Civil War era grist mill. The tour will highlight a fine collection of American illustrations in addition to still-life and landscape paintings. A buffet lunch in the museum cafeteria is included, followed by a tour through the 200-year-old colonial barn known as Chaddsford Winery. After walking through the wine-making cellars, make your way to the wine tasting room to sample the current vintages. (40 pp minimum)

NOTE: Comfortable walking shoes are recommended.

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Guest tours are nonrefundable.
King of Prussia Mall
9:15 am – 3:00 pm
$17 per person

Ready to shop 'til you drop? Receive a complimentary Signature Savings Booklet when you shop at the King of Prussia “Designer” Mall. With 400 stores to choose from, your trip will include an In Style designer spring fashion show held in the courtyard.
(40 pp minimum)

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event.
Guest tours are nonrefundable.
19,000+ TESTED
44% GROWTH
4 NEW PROGRAMS

aci international certification

WHAT A GREAT YEAR!

Thank YOU: Certification Committee Members, Local Sponsoring Groups, Examiners and Supporters!
PROGRAM AT A GLANCE

Friday, March 23
5:00 PM – 10:00 PM
TAC Technical Activities M1 Ind 1

Saturday, March 24
8:00 AM – 6:00 PM
TAC Technical Activities M2 Ind 1
8:30 AM – 5:00 PM
EAC Educational Activities M1 401
3:00 PM – 5:00 PM
CFTG Centennial Funding TG 403

Sunday, March 25
7:30 AM – 10:00 AM
MEMC Membership 308
8:00 AM – 6:00 PM
TAC RG 1 TAC Review Group 1 Ind 1
TAC RG 2 TAC Review Group 2 302
TAC RG 3 TAC Review Group 3 303
TAC RG 4 TAC Review Group 4 304
8:30 AM – 9:30 AM
341-2 Pier Wall Report 501
8:30 AM – 10:00 AM
440-H FRP Reinforced Concrete 407 & 408
8:30 AM – 11:30 AM
CLC Construction Liaison 305
E601 Seminar Oversight Committee 412
E801 Student Activities Salon I
315-B Constructibility Guidelines 405
335 Composite-Hybrid 306
347 Formwork 310
373 Prestressed/Tendons 415
408 Bond & Development Salon K
546-3 Material Selection Guide 307
8:30 AM – 5:00 PM
551 Tilt-Up 406
## PROGRAM AT A GLANCE

### Sunday, March 25

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
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<tbody>
<tr>
<td>8:30 AM - 6:30 PM</td>
<td>313  Bins &amp; Silos</td>
<td>Salon L</td>
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<tr>
<td>9:30 AM - 11:30 AM</td>
<td>341-1  Bridge Columns Report</td>
<td>501</td>
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<tr>
<td>10:00 AM - 11:30 AM</td>
<td>E701  Materials for Construction</td>
<td>413</td>
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<tr>
<td>10:00 AM - 1:00 PM</td>
<td>342  Bridge Evaluation</td>
<td>Salon J</td>
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<tr>
<td></td>
<td>349-1  Materials</td>
<td>401</td>
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<td>349-2  Design</td>
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<td>349-4  Waste Repository Structures</td>
<td>403</td>
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<td>355  Anchorage</td>
<td>411</td>
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<td>440-C  FRP State of the Art</td>
<td>Ind 2</td>
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<td>445-4  Pile Caps</td>
<td>309</td>
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<tr>
<td>10:00 AM - 2:30 PM</td>
<td>209  Creep &amp; Shrinkage</td>
<td>301</td>
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<tr>
<td>11:30 AM - 1:00 PM</td>
<td>341-3  Retrofit Report</td>
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<td>345  Bridge Construction</td>
<td>415</td>
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<td>546-1  Underwater Repair</td>
<td>307</td>
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<td>549  Thin Reinforced Cementitious</td>
<td>Ind 3</td>
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</tbody>
</table>

### Session Session
- Session Moderator:  Salon K
- Orientation Workshop:  Salon K

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<tr>
<th>Time</th>
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<th>Room</th>
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<tbody>
<tr>
<td>11:30 AM - 1:30 PM</td>
<td>HTC  Hot Topic</td>
<td>413</td>
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<tr>
<td>12:00 PM - 6:00 PM</td>
<td>336  Footings</td>
<td>408</td>
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<tr>
<td>1:00 PM - 3:30 PM</td>
<td>341  Earthquake-Resistant Bridges</td>
<td>501</td>
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<tr>
<td>1:00 PM - 5:00 PM</td>
<td>362-2  Standard M1</td>
<td>414</td>
</tr>
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</table>
PROGRAM AT A GLANCE

Sunday, March 25

1:00 PM – 5:00 PM Session

- Student Egg Protection Device
  Salon I

2:00 PM – 3:30 PM
C630T Transportation Inspector 411
THPC-B THPC Durability 401
118 Computers 306
120 History 412
121 Quality Assurance Ind 2
215 Fatigue 310
365-A Standard Model Development 309
440-J FRP Stay-in-Place Formwork 307

2:00 PM – 5:00 PM
ANNV Centennial Activities TG 413
E703 Construction Practices 405
IC International Committee 404
RCC Responsibility 305
305 Hot Weather Salon B
309 Consolidation Salon A
315 Detailing 403
343 Bridge Design Ind 3
352 Joints 407
421 Slabs 415

2:00 PM – 5:00 PM Sessions

- Mechanisms of Concrete Deterioration Salon E

★ Seismic Design of Liquid – Containing Structures Salon F

- Safety Assessment of Existing Concrete Structures Salon G

2:00 PM – 6:30 PM
349-3 Embedments 402
546-4 Repair Guide Salon K

★ Theme session
## PROGRAM AT A GLANCE

### Sunday, March 25

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<td>3:30 PM - 5:00 PM</td>
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<tr>
<td>E705</td>
<td>Educational Computer Activities</td>
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<td>E903</td>
<td>Convention Training</td>
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<tr>
<td>THPC-C</td>
<td>THPC Construction</td>
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<tr>
<td>325.36</td>
<td>Concrete Pavement Strengths</td>
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<tr>
<td>439-C</td>
<td>Welded Splices</td>
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<tr>
<td>440-L</td>
<td>FRP Concrete Structures</td>
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<td>3:30 PM - 6:30 PM</td>
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<td>445-1</td>
<td>Strut &amp; Tie</td>
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<td>4:00 PM - 5:30 PM</td>
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<tr>
<td>506-P</td>
<td>Swimming Pools</td>
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<td>506-S</td>
<td>Shotcrete Specification</td>
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<td>5:00 PM - 6:30 PM</td>
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<tr>
<td>RAP TG</td>
<td>RAP Task Group</td>
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<td>123</td>
<td>Research</td>
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<tr>
<td>201-C</td>
<td>Sulfate Attack</td>
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<td>224</td>
<td>Cracking</td>
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<td>Radioactive/Hazardous Mgmt</td>
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<td>340</td>
<td>Design Aids</td>
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<td>343</td>
<td>Safety</td>
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<tr>
<td>439-B</td>
<td>Mechanical Splices</td>
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<tr>
<td>440-D</td>
<td>FRP Research</td>
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<tr>
<td>5:00 PM - 8:30 PM</td>
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<tr>
<td>439-A</td>
<td>Wire Reinforcement</td>
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<tr>
<td>6:30 PM - 7:30 PM</td>
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<tr>
<td>Welcome Reception</td>
<td>Salons E - H</td>
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<tr>
<td>7:30 PM - 9:30 PM Session</td>
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<tr>
<td>- Hot Topic Session:</td>
<td>Salons C &amp; D</td>
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<td>Strong Quake Rocks</td>
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<td>Pacific Northwest</td>
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<tr>
<td>8:00 PM - 9:30 PM</td>
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<tr>
<td>Faculty Network on Repair</td>
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</table>
### PROGRAM AT A GLANCE

**Monday, March 26**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00 AM – 8:30 AM</td>
<td>TMC: TAC Metrication</td>
<td>405</td>
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<tr>
<td>7:00 AM – 8:30 AM Session</td>
<td>Speaker’s Training Breakfast: Incorporating Video Clips into PowerPoint Presentations</td>
<td>Salon E</td>
</tr>
<tr>
<td>7:30 AM – 11:30 AM</td>
<td>MKTC: Marketing</td>
<td>415</td>
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<tr>
<td>8:00 AM – 9:00 AM Session</td>
<td>Student Orientation Session</td>
<td>Salon I</td>
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<tr>
<td>8:30 AM – 10:00 AM</td>
<td>122: Energy Conservation</td>
<td>401</td>
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<td></td>
<td>304: Measuring/Mix/Trans/Placing</td>
<td>Salon K</td>
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<td>308-S: Specifications</td>
<td>308</td>
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<td>8:30 AM – 11:30 AM</td>
<td>C610: Field Technician</td>
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<td>C650: Tilt-Up</td>
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<td></td>
<td>E802: Methods &amp; Materials</td>
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<td>THPC: TAC High-Performance</td>
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<td>311: Inspection</td>
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<td>346: CIP Pipe</td>
<td>310</td>
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<td></td>
<td>349: Nuclear Structures</td>
<td>Ind 2</td>
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<td></td>
<td>350-1: General &amp; Concrete</td>
<td>414</td>
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<td></td>
<td>351-2: Dynamic Mach Foundations</td>
<td>306</td>
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<td>439: Steel Reinforcement</td>
<td>Salon J</td>
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<td></td>
<td>533: Precast Panels</td>
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<td></td>
<td>546: Repair</td>
<td>Ind 1</td>
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<td>548-E: Structural Design &amp; Analysis</td>
<td>410</td>
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<td>8:30 AM – 1:00 PM</td>
<td>207: Mass Concrete</td>
<td>304</td>
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<td>232: Fly Ash &amp; Natural Pozzolans</td>
<td>Salon L</td>
</tr>
<tr>
<td></td>
<td>302: Floor Construction</td>
<td>Salon D</td>
</tr>
<tr>
<td></td>
<td>307: Chimneys</td>
<td>411</td>
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<tr>
<td></td>
<td>440-F: FRP Repair</td>
<td>407 &amp; 408</td>
</tr>
</tbody>
</table>
8:30 AM – 3:30 PM
C660  Shotcrete Nozzleman  406

8:30 AM – 5:00 PM
350-4  Structural  412

9:00 AM – 10:00 AM
318  Building Code M1  Salon C

9:00 AM – 12:00 PM Sessions

- Research in Progress  Salon H

★ Strength and Constructibility of Concrete Pavements, Overlays, and Repairs: Part 1  Salon E

★ Constructibility of Bridges – Concept to Completion: Part 1  Salon F

- Technical Committee  Salon G
  Chair Training Session

10:00 AM – 11:30 AM
211-E  Evaluation & Adjustment  309
216  Fire Resistance  302
304.6  Volumetric  Salon K
524  Plastering  308

10:00 AM – 1:00 PM
INT ADV  Internet Advisory  401
318-E  Shear & Torsion M1  Salon C
441  Columns  403
552  Cement Grouting  409

10:30 AM – 12:00 PM
506-F  Fiber-Reinforced  405

11:30 AM – 1:00 PM
C620  Laboratory Tech Cert  308
211-D  High Strength  309
231  Early Age  404
301-D  Arotl, Ltwt, Mass, Shrinkage  402
544-S  Student  501
548-D  Sulfur Concrete  410

★ Theme session
11:30 AM – 1:00 PM Session

- Session Moderator
- Orientation Workshop

Salon K

11:30 AM – 2:00 PM

RCRC
Reinf Conc Rsch Council
Ind 2

12:00 PM – 2:00 PM

✓ Student Luncheon
Liberty A

1:00 PM – 3:30 PM

506-G
Guide to Shotcrete
301

1:00 PM – 5:00 PM

362-2
Standard M2
414

2:00 PM – 3:30 PM

E803
Faculty Network Coordinating
408

211-C
No Slump
309

225
Hydraulic Cements
Salon J

229
Controlled Low-Strength
Salon I

350-3
Reinforcement & Devel
411

440-G
FRP Student Education
303

544-A
Steel Fibers
Salon C

544-B
Glass Fibers
501

Porous Concrete (Formational Mtg)
Salon K

2:00 PM – 5:00 PM

C640
Craftsman
304

DLTG
Distance Learning TG
308

SCO
Scholarship Council (ConRef)
307

212
Chemical Admixtures
Salon D

234
Silica Fume
Ind 1

236-A
Mtl Science - Workability
Salon L

350-11
Specifications
407

351
Equip Foundations
306

370
Dynamic & Vibratory Effects M1
305

375
Wind Loads
405

548-B
Polymer Concrete Overlays
410

✓ Separate fee required
## PROGRAM AT A GLANCE

### Monday, March 26

**2:00 PM – 5:00 PM Sessions**

- **Strength and Constructibility of Concrete Pavements, Overlays, and Repairs: Part 2**
  - Nondestructive Testing of Mass Concrete Structures
  - Constructibility of Bridges – Concept to Completion: Part 2
  - Rehabilitation and Repair of Concrete – Hot Industry Issues: Part 1

**2:00 PM – 6:30 PM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Salon</th>
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<tbody>
<tr>
<td>301-A</td>
<td>General Requirements</td>
<td>310</td>
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<tr>
<td>318-B</td>
<td>Reinforcement/Devel</td>
<td>401</td>
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<tr>
<td>318-C</td>
<td>Serviceability/Safety</td>
<td>402</td>
</tr>
<tr>
<td>318-D</td>
<td>Flexure &amp; Axial Loads</td>
<td>403</td>
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<tr>
<td>318-F</td>
<td>Two-Way Slabs</td>
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<tr>
<td>350-2</td>
<td>Durability</td>
<td>415</td>
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<tr>
<td>360</td>
<td>Slabs on Ground</td>
<td>Ind 2</td>
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**3:30 PM – 5:00 PM**

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<tr>
<th>Time</th>
<th>Session Description</th>
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<tbody>
<tr>
<td>E702</td>
<td>Designing Concrete Structures</td>
<td>303</td>
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<tr>
<td>214</td>
<td>Strength Tests</td>
<td>Salon I</td>
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<tr>
<td>308-M</td>
<td>Accelerated Curing</td>
<td>411</td>
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<tr>
<td>437</td>
<td>Strength Evaluation</td>
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<td>444</td>
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<td>506-C</td>
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<td>506-U</td>
<td>Underground Shotcrete</td>
<td>302</td>
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<td>544-C</td>
<td>Synthetic Fibers</td>
<td>Salon C</td>
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<td>544-D</td>
<td>Natural Fibers</td>
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**3:30 PM – 6:00 PM**

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<th>Time</th>
<th>Session Description</th>
<th>Salon</th>
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<tbody>
<tr>
<td>446</td>
<td>Fracture Mechanics</td>
<td>Salon J</td>
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**3:30 PM – 6:30 PM**

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<th>Time</th>
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<tbody>
<tr>
<td>372</td>
<td>Prestressed/Wire-Wrapped</td>
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<tr>
<td>440-K</td>
<td>FRP Material Characteristics</td>
<td>Salon K</td>
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</tbody>
</table>

> Theme session
PROGRAM AT A GLANCE

Monday, March 26

5:00 PM – 6:00 PM
Women in ACI Reception
Ind 3

5:00 PM – 6:30 PM
236 Material Science
308-R Guide to Curing R1
362 Parking Structures
445-2 Seismic Shear
445-5 Torsion
503-A Polyurethanes for Injection
544-F Testing
555 Removal & Reuse
Salon L
411
Salon C
308
407
405
Salon I
412

5:30 PM – 6:30 PM
University of Illinois Alumni
Salon A

6:30 PM – 8:00 PM
Concrete Mixer – Building a Nation
Grand

Tuesday, March 27

7:00 AM – 8:30 AM
Design & Constr of Pavements
303

7:00 AM – 8:30 AM Session

- Committee Chairman
Salon G
Training Breakfast: Timelines
& Planning Guidelines

7:00 AM – 9:00 AM
TTTC TAC Technology Transfer
Salon A

7:00 AM – 12:00 PM
Educational Activities M2
405

7:30 AM – 8:30 AM Session

- Chapter Forum
Getting Chapters Involved
with Students
Salon I
# Program at a Glance

**Tuesday, March 27**

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<th>Time</th>
<th>Session</th>
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<td>8:00 AM - 9:00 AM</td>
<td>Evaluation of Shotcrete</td>
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<td>C630</td>
<td>Construction Inspector</td>
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<td>213-B</td>
<td>By-Product Ltwt Aggregates</td>
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<td>223-1</td>
<td>Field Measurements</td>
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<td>350-B</td>
<td>Editorial</td>
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<tr>
<td>357</td>
<td>Offshore &amp; Marine</td>
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**8:30 AM - 11:30 AM**

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**8:30 AM - 1:00 PM**

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**8:30 AM - 2:00 PM**

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**8:30 AM - 5:00 PM**

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**8:30 AM - 6:30 PM**

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**9:00 AM - 11:00 AM**

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Tuesday, March 27

9:00 AM – 11:30 AM
  - Expo & Demonstrations  Franklin B

9:00 AM – 12:00 PM Sessions

  ★ Contractors’ Day: Part 1;
  Constructibility – Design to Construction; Problems and Solutions  Salon G

  - Rehabilitation and Repair of Concrete – Hot Industry Issues; Part 2  Salon H

  ★ Mechanical Splices in Seismic and Blast Applications  Salon E

    - Evaluation & Rehabilitation of Historic Concrete Bridges  Salon F

10:00 AM – 11:30 AM
  IJBRC  Int'l Joints & Bearings  308
  213-A  Ltwt Conc Guide 213 Update  407
  223-3  Construction Practices  501
  325-31  Design of Concrete Overlays  303
  515  Protective Systems  304

10:00 AM – 1:00 PM
  211-A  Editorial & Rewrite  302
  350-7  Tightness Testing  413
  435  Deflection  406
  544  Fiber-Reinforced  Salon B

10:30 AM – 1:00 PM
  440-I  FRP Prestressed Concrete  Salon A

11:30 AM – 1:00 PM
  CRC  Concrete Research Council  Salon J
  221  Aggregates  307
  223-2  Components  501
  325-32  Design of Jointed Pavements  303
  554  Bearing Systems  304

★ Theme session
PROGRAM AT A GLANCE

Tuesday, March 27

12:00 PM – 2:00 PM
TAC  Technical Activities M3  Ind 1

12:00 PM – 2:00 PM
✓ Contractors' Day Luncheon  Liberty A

2:00 PM – 3:30 PM
213  Lightweight  307

2:00 PM – 4:00 PM
   - Expo & Demonstrations  Franklin B

2:00 PM – 5:00 PM
CPC  Certification Programs  308
CC   Convention Committee  405
ConRef  Concrete Res & Education  Salon 1
CRSCTG  Concrete-Related Software Cert  407
PUBC  Publications  309
124  Concrete Aesthetics  409
222  Corrosion  Salon C
223  Shrinkage-Compensating  Salon K
233  Ground Slag  306
325.1  Roller-Compacted Pavements  303
330  Parking Lots & Site Paving  304
350-9  Education  413
350-10  Hazardous Materials  414
364  Rehabilitation  Salon L
503  Adhesives  305
550  Precast Structures  Salon J

✓ Separate fee required
2:00 PM – 5:00 PM Sessions

★ Contractors' Day: Part 2;  
Considerations for Planned Projects –  
Discussion of Constructibility Issues  
from Cast-In-Place, Precast, Design  
and Construction Management Perspectives

- Recent Advances in the  
Seismic-Resistant Design of  
Concrete Bridges  
Salon E

★ Teaching Constructibility  
Salon F

- Open Paper Session  
Salon H

2:00 PM – 6:30 PM
228 Nondestructive Testing  
318 Building Code M2  
332-TG2 Standards Task Group 2  
440 Fiber Reinforced Polymer  
Salons A & B

3:00 PM – 5:00 PM
116 Terminology & Notation  
403

3:00 PM – 6:00 PM
332-TG3 Seminars Task Group 3  
401

3:30 PM – 5:00 PM
363-1 SOTA Rewrite  
445-3 Slab Shear  
411

4:30 PM – 6:00 PM
Contractors' Reception & Forum  
Franklin B

5:00 PM – 6:30 PM
308-HPC HPC Curing  
325 Pavements  
363-2 HSC Definition  
365 Service Life  
409

★ Theme session
PROGRAM AT A GLANCE

Tuesday, March 27

6:00 PM – 10:00 PM
TRRC  TAC Repair & Rehab  501

6:30 PM
445-6  Database  Contact Chair

6:30 PM – 9:00 PM Session

- Hot Topic Session: Slab Moisture & Floor-Covering Failures – Who's to Blame? Salon E

7:30 PM – 10:00 PM Session

- 123 Forum: Design Build vs. Traditional Construction Salon H

Wednesday, March 28

7:00 AM – 10:00 AM
TSC  TAC Specifications  501

7:30 AM – 5:00 PM
BOD  Board of Direction M1 Salon D

8:30 AM – 10:00 AM
301-B  Formwork & Reinforcement  401

8:30 AM – 11:30 AM
369  Seismic Rehab  310

8:30 AM – 5:00 PM
350  Environmental Structures Salon A
PROGRAM AT A GLANCE

Wednesday, March 28

9:00 AM – 12:00 PM Sessions

- International Standardization & ACI
  Salon C

- ACI 548 – Polymers in Concrete: The First 30 Years: Part 1
  Salon E

★ Quality Assurance and Control of Construction Projects
  Salon F

10:00 AM – 5:00 PM
355-ICBO Intl Congress Bldg Officials 306

12:00 PM – 2:00 PM
✓ International Luncheon & Program
  Liberty A

1:00 PM – 6:30 PM
301 Specifications 404

2:00 PM – 3:30 PM
211-B Lightweight 501

2:00 PM – 4:00 PM
523-A Autoclaved Aerated Concrete 403

2:00 PM – 5:00 PM
303 Architectural CIP 307
306 Cold Weather 401
308 Curing 402
363 High Strength Salon L

★ Theme session ✓ Separate fee required
PROGRAM AT A GLANCE

Wednesday, March 28

2:00 PM – 5:00 PM Sessions
- ACI 548 – Polymers in Concrete: The First 30 Years: Part 2
  Salon E
- ★ Constructibility of Shrinkage Compensating Concrete
  Salon G
- ★ Design and Construction of Durable Parking Structures
  Salon F

2:00 PM – 5:30 PM
445 Shear & Torsion
Salon B

2:00 PM – 6:30 PM
332 Residential Concrete
423 Prestressed
Salon K
Salon J

3:30 PM – 6:00 PM
211 Proportioning
Salon C

4:00 PM – 6:30 PM
523 Cellular Concrete
403

Thursday, March 29

8:00 AM – 10:00 AM
✓ Awards Breakfast
Salons E & F

10:15 AM – 12:00 PM
General Session
Salons E & F

2:00 PM – 5:00 PM
BOD Board of Direction M2
Salon D

★ Theme session ✓ Separate fee required
PROGRAM AT A GLANCE

Friday, March 30

7:45 AM – 5:00 PM Session

✓ ACI Educational Seminar: Controlled Low-Strength Materials (CLSM)

✓ Separate fee required
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<td>Seismic Rehab</td>
<td>Wed</td>
<td>8:30a - 11:30a</td>
<td>310</td>
</tr>
<tr>
<td>370</td>
<td>Dynamic &amp; Vibratory Effects M1</td>
<td>Mon</td>
<td>2:00p - 5:00p</td>
<td>305</td>
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<tr>
<td>370</td>
<td>Dynamic &amp; Vibratory Effects M2</td>
<td>Tue</td>
<td>8:30a - 11:30a</td>
<td>305</td>
</tr>
<tr>
<td>372</td>
<td>Prestressed/Wire-Wrapped</td>
<td>Mon</td>
<td>3:30p - 6:30p</td>
<td>408</td>
</tr>
<tr>
<td>373</td>
<td>Prestressed/Tendons</td>
<td>Sun</td>
<td>8:30a - 11:30a</td>
<td>415</td>
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<tr>
<td>374</td>
<td>Seismic Design</td>
<td>Tue</td>
<td>8:30a - 11:30a</td>
<td>Ind 1</td>
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<tr>
<td>375</td>
<td>Wind Loads</td>
<td>Mon</td>
<td>2:00p - 5:00p</td>
<td>405</td>
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<tr>
<td>408</td>
<td>Bond &amp; Development</td>
<td>Sun</td>
<td>8:30a - 11:30a</td>
<td>Salon K</td>
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<tr>
<td>421</td>
<td>Slabs</td>
<td>Sun</td>
<td>2:00p - 5:00p</td>
<td>415</td>
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<tr>
<td>423</td>
<td>Prestressed</td>
<td>Wed</td>
<td>2:00p - 3:30p</td>
<td>Salon J</td>
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<tr>
<td>435</td>
<td>Deflection</td>
<td>Tue</td>
<td>10:00a - 1:00p</td>
<td>406</td>
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<tr>
<td>437</td>
<td>Strength Evaluation</td>
<td>Mon</td>
<td>3:30p - 5:00p</td>
<td>309</td>
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<td>439</td>
<td>Steel Reinforcement</td>
<td>Mon</td>
<td>8:30a - 11:30a</td>
<td>Salon J</td>
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<tr>
<td>439-A</td>
<td>Wire Reinforcement</td>
<td>Sun</td>
<td>5:00p - 8:30p</td>
<td>301</td>
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<tr>
<td>439-B</td>
<td>Mechanical Splices</td>
<td>Sun</td>
<td>5:00p - 6:30p</td>
<td>305</td>
</tr>
<tr>
<td>439-C</td>
<td>Welded Splices</td>
<td>Sun</td>
<td>3:30p - 5:00p</td>
<td>301</td>
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<tr>
<td>440</td>
<td>Fiber Reinforced Polymer</td>
<td>Tue</td>
<td>2:00p - 5:00p</td>
<td>Salons A &amp; B</td>
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<tr>
<td>440-C</td>
<td>FRP State of the Art</td>
<td>Sun</td>
<td>10:00a - 1:00p</td>
<td>Ind 2</td>
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<tr>
<td>440-D</td>
<td>FRP Research</td>
<td>Sun</td>
<td>5:00p - 6:30p</td>
<td>Ind 3</td>
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<tr>
<td>440-E</td>
<td>Professional Education</td>
<td>Tue</td>
<td>8:30a - 10:00a</td>
<td>303</td>
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<tr>
<td>440-F</td>
<td>FRP Repair</td>
<td>Mon</td>
<td>8:30a - 1:00p</td>
<td>407 &amp; 408</td>
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<td>440-G</td>
<td>FRP Student Education</td>
<td>Mon</td>
<td>2:00p - 3:30p</td>
<td>303</td>
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<tr>
<td>440-H</td>
<td>FRP Reinforced Concrete</td>
<td>Sun</td>
<td>8:30a - 10:00a</td>
<td>407 &amp; 408</td>
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<tr>
<td>440-I</td>
<td>FRP Prestressed Concrete</td>
<td>Tue</td>
<td>10:00a - 1:00p</td>
<td>Salon A</td>
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<tr>
<td>440-J</td>
<td>FRP Stay-In-Place Formwork</td>
<td>Sun</td>
<td>2:00p - 3:30p</td>
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<td>440-K</td>
<td>FRP Material Characteristics</td>
<td>Mon</td>
<td>3:30p - 6:30p</td>
<td>Salon K</td>
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<tr>
<td>440-L</td>
<td>FRP Concrete Structures</td>
<td>Sun</td>
<td>3:30p - 5:00p</td>
<td>307</td>
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<tr>
<td>441</td>
<td>Columns</td>
<td>Mon</td>
<td>10:00a - 1:00p</td>
<td>403</td>
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<tr>
<td>444</td>
<td>Experimental Analysis</td>
<td>Mon</td>
<td>3:30p - 5:00p</td>
<td>409</td>
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<tr>
<td>445</td>
<td>Shear &amp; Torsion</td>
<td>Wed</td>
<td>2:00p - 5:30p</td>
<td>Salon B</td>
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<tr>
<td>445-1</td>
<td>Strut &amp; Tie</td>
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<td>3:30p - 6:30p</td>
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<td>Seismic Shear</td>
<td>Mon</td>
<td>5:00p - 6:30p</td>
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<td>445-3</td>
<td>Slab Shear</td>
<td>Tue</td>
<td>3:30p - 5:00p</td>
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<td>445-4</td>
<td>Pile Caps</td>
<td>Sun</td>
<td>10:00a - 1:00p</td>
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<td>Torsion</td>
<td>Mon</td>
<td>5:00p - 6:30p</td>
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<td>Database</td>
<td>Tue</td>
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<td>Fracture Mechanics</td>
<td>Mon</td>
<td>3:30p - 6:00p</td>
<td>Salon J</td>
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<td>503</td>
<td>Adhesives</td>
<td>Tue</td>
<td>2:00p - 5:00p</td>
<td>305</td>
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<tr>
<td>503-A</td>
<td>Polyurethanes for Injection</td>
<td>Mon</td>
<td>5:00p - 6:30p</td>
<td>405</td>
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<td>504</td>
<td>Joint Sealants</td>
<td>Tue</td>
<td>8:30a - 10:00a</td>
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<tr>
<td>506</td>
<td>Shotcreting</td>
<td>Tue</td>
<td>9:00a - 11:00a</td>
<td>Salon C</td>
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<td>COMM COMMITTEE TITLE</td>
<td>DAY</td>
<td>TIME</td>
<td>ROOM</td>
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<tr>
<td>Certification</td>
<td>Mon</td>
<td>3:30p - 5:00p</td>
<td>406</td>
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<tr>
<td>Evaluation of Shotcrete</td>
<td>Tue</td>
<td>8:00a - 9:00a</td>
<td>406</td>
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<td>Fiber-Reinforced</td>
<td>Mon</td>
<td>10:30a - 12:00a</td>
<td>405</td>
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<tr>
<td>Guide to Shotcrete</td>
<td>Mon</td>
<td>1:00p - 3:30p</td>
<td>301</td>
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<tr>
<td>Swimming Pools</td>
<td>Sun</td>
<td>4:00p - 5:30p</td>
<td>412</td>
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<td>Shotcrete Specification</td>
<td>Sun</td>
<td>4:00p - 5:30p</td>
<td>411</td>
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<td>Underground Shotcrete</td>
<td>Mon</td>
<td>3:30p - 5:00p</td>
<td>302</td>
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<tr>
<td>Protective Systems</td>
<td>Tue</td>
<td>10:30a - 11:30a</td>
<td>304</td>
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<tr>
<td>Cellular Concrete</td>
<td>Wed</td>
<td>4:00p - 6:30p</td>
<td>403</td>
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<tr>
<td>Autoclaved Aerated Concrete</td>
<td>Wed</td>
<td>2:00p - 4:00p</td>
<td>403</td>
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<tr>
<td>Plastering</td>
<td>Mon</td>
<td>10:30a - 11:30a</td>
<td>308</td>
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<tr>
<td>Precast Panels</td>
<td>Mon</td>
<td>8:30a - 11:30a</td>
<td>307</td>
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<tr>
<td>Concrete Piles</td>
<td>Tue</td>
<td>8:30a - 5:00p</td>
<td>412</td>
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<td>Fiber-Reinforced</td>
<td>Tue</td>
<td>10:00a - 1:00p</td>
<td>Salon B</td>
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<tr>
<td>Steel Fibers</td>
<td>Mon</td>
<td>2:00p - 3:30p</td>
<td>Salon C</td>
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<tr>
<td>Glass Fibers</td>
<td>Mon</td>
<td>2:00p - 3:30p</td>
<td>501</td>
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<td>Synthetic Fibers</td>
<td>Mon</td>
<td>2:00p - 5:00p</td>
<td>Salon C</td>
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<tr>
<td>Natural Fibers</td>
<td>Mon</td>
<td>3:30p - 5:00p</td>
<td>501</td>
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<td>Testing</td>
<td>Mon</td>
<td>5:00p - 6:30p</td>
<td>Salon L</td>
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<tr>
<td>Design &amp; Structural Uses</td>
<td>Tue</td>
<td>8:30a - 10:00a</td>
<td>Salon J</td>
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<tr>
<td>Student</td>
<td>Mon</td>
<td>11:30a - 1:00p</td>
<td>501</td>
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<td>Repair</td>
<td>Mon</td>
<td>8:30a - 11:30a</td>
<td>Inc 1</td>
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<tr>
<td>Underwater Repair</td>
<td>Sun</td>
<td>11:30a - 1:00p</td>
<td>307</td>
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<td>Material Selection Guide</td>
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<td>8:30a - 11:30a</td>
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<td>Repair Guide</td>
<td>Sun</td>
<td>2:00p - 6:30p</td>
<td>Salon K</td>
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<tr>
<td>Polymers</td>
<td>Tue</td>
<td>8:30a - 11:30a</td>
<td>Salons K &amp; L</td>
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<tr>
<td>Polymer Concrete Overlays</td>
<td>Mon</td>
<td>2:00p - 5:00p</td>
<td>410</td>
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<td>Sulfur Concrete</td>
<td>Mon</td>
<td>11:30a - 1:00p</td>
<td>410</td>
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<tr>
<td>Structural Design &amp; Analysis</td>
<td>Mon</td>
<td>8:30a - 11:30a</td>
<td>410</td>
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<td>Thin Reinforced Cementitious</td>
<td>Sun</td>
<td>11:30a - 1:00p</td>
<td>Inc 3</td>
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<td>Precast Structures</td>
<td>Tue</td>
<td>2:00p - 5:00p</td>
<td>Salon J</td>
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<tr>
<td>Tilt-Up</td>
<td>Sun</td>
<td>8:30a - 5:00p</td>
<td>406</td>
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<tr>
<td>Cement Grouting</td>
<td>Mon</td>
<td>10:00a - 1:00p</td>
<td>409</td>
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<tr>
<td>Bearing Systems</td>
<td>Tue</td>
<td>11:30a - 1:00p</td>
<td>304</td>
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<tr>
<td>Removal &amp; Reuse</td>
<td>Mon</td>
<td>5:00p - 6:30p</td>
<td>412</td>
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<td>Porous Concrete (Formational Mitg)</td>
<td>Mon</td>
<td>2:00p - 3:30p</td>
<td>Salon K</td>
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<tr>
<td>Faculty Network on Repair</td>
<td>Sun</td>
<td>8:00p - 9:30p</td>
<td>406</td>
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</table>
SESSION MODERATOR
ORIENTATION WORKSHOP

Sponsored by Committee E903

Session Moderator:  
David G. Kittridge  
Principal Engineer  
Maitland, FL

The purpose of this workshop is to review the session moderator’s role in leading quality sessions at ACI conventions. The review includes the Session Moderator Orientation Packet and the duties of the ACI session moderator. You will also learn how to motivate your speakers and the best methods of communicating with ACI.

This workshop will also be presented on Monday, March 26, 11:30 AM – 1:00 PM in Salon K.

All moderators of convention sessions are required by TAC and EAC to attend one of these orientation workshops. If you will be a moderator for a session at a future convention, and have not yet attended one of the workshops, please attend this session on Sunday or Monday.
SUNDAY, MARCH 25

1:00 PM – 5:00 PM

STUDENT EGG PROTECTION DEVICE COMPETITION

Sponsored by Committee E801 & the ACI Delaware Valley Chapter

Session Moderator: DJ Belarbi
Professor
Dept. of Civil Engineering
University of Missouri - Rolla
Rolla, MO

Session Co-Moderator: Vicki L. Brown
Professor
Widener University
Dept. of Civil Engineering
Chester, PA

Introduction 1:00
DJ Belarbi, Professor, Dept. of Civil Engineering, University of Missouri - Rolla, Rolla, MO

Egg Protection Device Competition 1:10
SUNDAY, MARCH 25

2:00 PM – 5:00 PM

MECHANISMS OF CONCRETE DETERIORATION

Sponsored by Committee 236

Session Moderator: Kevin J. Folliard
Assistant Professor
Dept. of Civil Engineering
University of Texas
Austin, TX

Session Co-Moderator: David Trojo
Assistant Professor
Dept. of Civil Engineering
Texas A&M University
College Station, TX

Introduction
Kevin J. Folliard, Assistant Professor,
Dept. of Civil Engineering, University of
Texas, Austin, TX

2:00

Alkali-Silica Reaction
Michael D. A. Thomas, Associate
Professor, Dept. of Civil Engineering,
University of Toronto, Toronto, ONT,
Canada

2:05

Freezing and Thawing
Jacques Marchand, Professor,
Dept. of Civil Engineering, Laval
University, Quebec, QUE, Canada

2:35

Corrosion of Reinforcing Steel
Thomas Devine, Professor/Chair,
Dept. of Materials Science, University
of California - Berkeley, Berkeley, CA

3:05

Sulfate Attack
Niels Thaulow, Technical Director,
RJ Lee Group, Inc., Monroeville, PA

3:35

Shrinkage Cracking
Kenneth C. Hover, Professor, Dept. of
Civil Engineering, Cornell University, Ithaca, NY

4:05

Durability Roundtable

4:35
SEISMIC DESIGN OF LIQUID-CONTAINING STRUCTURES

Sponsored by Committee 350

Session Moderator: Nicholas A. Legatos
Vice President
Manager of Engineering
Preload Inc.
Hauppauge, NY

Session Co-Moderator: Charles S. Hanskat
Regional Marketing Manager
DYK, Inc.
El Cajon, CA

Introduction 2:00
Charles S. Hanskat, Regional
Marketing Manager, DYK, Inc.,
El Cajon, CA

Basic Theory 2:10
Nicholas A. Legatos, Vice President,
Manager of Engineering, Preload Inc.,
Hauppauge, NY

Lateral Force 2:55
M. Reza Kianoush, Professor, Dept.
of Civil Engineering, Ryerson Polytechnic
University, Toronto, ONT, Canada

Design Examples – Rectangular Tanks 3:30
Lawrence G. Mrzak, LGM Engineers, LLC,
St. Louis, MO

Design Examples – Circular Tanks 4:15
Larry M. Tabat, Manager, Structural
Design, Malcolm Pirnie, Inc., White
Plains, NY and Michele M. Zielinski,
Project Engineer - Structural Design
Services, Malcolm Pirnie, Inc., White
Plains, NY

Theme session
SUNDAY, MARCH 25

2:00 PM – 5:00 PM

SAFETY ASSESSMENT OF EXISTING CONCRETE STRUCTURES

Sponsored by Committee 348

Session Moderator: Andrew Scanlon
Professor
Dept. of Civil Engineering
Pennsylvania State University
University Park, PA

Session Co-Moderator: Hani H. Nassif
Assistant Professor
Dept. of Civil Engineering
Rutgers University
Piscataway, NJ

Probabilistic Approaches to Safety Assessment of Existing Concrete Structures
Andrew Scanlon, Professor, Dept.
of Civil Engineering, Pennsylvania State
University, University Park, PA

Existing Bridge Evaluation Criteria in the Canadian Highway Bridge Design Code
Michael F. Bartlett, Associate Professor,
Dept. of Civil & Environmental Engineering,
University of Western Ontario, London,
ONT, Canada; Darrel P. Gagnon, Senior
Engineer, Buckland and Taylor, Ltd.,
North Vancouver, BC, Canada; and
Akilesh G. Agarwal, Private Consultant,
Brampton, ONT, Canada

Measured Live Load in Prestressed Concrete Girder Bridges for Safety Assessment
Jeffrey A. Laman, Assistant Professor,
Dept. of Civil Engineering, Pennsylvania State
University, University Park, PA
SAFETY ASSESSMENT OF EXISTING CONCRETE STRUCTURES  (Continued)

Structural Safety Assessment of Ferrocement Sections Under Flexural Loads
Hani H. Nassif, Assistant Professor,
Dept. of Civil Engineering, Rutgers University,
Piscataway, NJ

Resistance Models for Structural Safety Assessment of R/C Structures
Andrzej S. Nowak, Professor,
Dept. of Civil Engineering, University of Michigan, Ann Arbor, MI and
Maria M. Szerszen, Assistant
Research Scientist, Dept. of Civil Engineering,
University of Michigan, Ann Arbor, MI

Reliability-Based Assessment of Existing Bridges
Joan R. Casas, Professor, Dept. of Civil Engineering, Catalunya Technical University, Barcelona, Spain
SUNDAY, MARCH 25

6:30 PM – 7:30 PM

WELCOME RECEPTION Salons E - H

Hosted by the ACI Delaware Valley Chapter & ACI International

Kick off your convention week with this cash bar reception. Meet your friends and colleagues for a cocktail and light refreshments before going to dinner.

Don’t forget to make your dinner reservations for after the Welcome Reception. Philadelphia has hundreds of great restaurants. See the concierge for assistance.

Note: Beverages for this event must be paid with cash and cannot be charged to your room.
SUNDAY, MARCH 25

7:30 PM – 9:30 PM

HOT TOPIC SESSION:  STRONG QUAKE ROCKS  PACIFIC NORTHWEST

Salons C & D

Sponsored by the Hot Topic Committee

Moderator:  H. S. Lew
Senior Structural Engineer
Natl Inst of Stds/Tech
Gaithersburg, MD

Speakers to be announced

Don't miss this report by five prominent structural engineers from the Seattle area on the Nisqually Earthquake that hit the Pacific Northwest.

Reported as the biggest, this quake rocked the Puget Sound at 10:55 a.m. on February 28, 2001. Lasting 30 seconds before subsiding, it registered 6.8 magnitude and was felt as far away as Salt Lake City – 700 miles away!

While no apparent damage of modern buildings was reported, many URM buildings sustained damage. We will hear from the speakers how buildings designed using modern seismic codes and retrofitted buildings performed in this earthquake.

This will be a session you won't want to miss!

Beverages and refreshments will be available for purchase.
MONDAY, MARCH 26

7:00 AM – 8:30 AM

SPEAKER’S TRAINING
BREAKFAST: INCORPORATING VIDEO CLIPS INTO POWERPOINT PRESENTATIONS

Sponsored by Committee E903

Session Moderator: Richard P. Bohan
Director of Education and Training
Portland Cement Assn.
Skokie, IL

Session Co-Moderator: James M. Shilstone, Jr.
President
Shilstone Companies, Inc.
Dallas, TX

Coffee and pastries will be served at 7:00 AM for the first 50 people.

First there were black and white overheads. Then came slides and color. Still the masses were bored and yearned for more excitement. Finally came the advent of PowerPoint; but the computers crashed.

Now, for the first time ever comes VIDEO! Before your very eyes watch this first-time ever presentation in real-time, live-action, full-motion, wide-screen videography. See how video clips and animation can be effortlessly and seamlessly placed into a PowerPoint presentation to get the maximum effect desired.
MONDAY, MARCH 26

8:00 AM – 9:00 AM

STUDENT ORIENTATION SESSION

Sponsored by Committee E801 & the ACI Delaware Valley Chapter

Session Moderator: DJ Belarbi
Professor
Dept. of Civil Engineering
University of Missouri - Rolla
Rolla, MO

Session Co-Moderator: Vicki L. Brown
Professor
Widener University
Dept. of Civil Engineering
Chester, PA

This session, designed for students, is an overview of the American Concrete Institute – what it is, why it exists, and how it functions. Topics will include ACI’s mission, strategic plan, organization, technical and education committee structures, convention format, and other issues that are of special interest to students.

Mentor Program
At the conclusion of the Orientation Session, mentors will be available to attend committee meetings and technical sessions with interested students. The meetings and sessions are open to all students.
MONDAY, MARCH 26

9:00 AM – 12:00 PM

RESEARCH IN PROGRESS

Sponsored by Committee 123

Session Moderator: Pawan R. Gupta
Consulting Engineer
Halsall Asocs., Ltd.
Toronto, ONT, Canada

Session Co-Moderator: W. Jason Weiss
Assistant Professor
Dept. of Civil Engineering
Purdue University
West Lafayette, IN

Introduction
Pawan R. Gupta, Consulting Engineer,
Halsall Asocs., Ltd., Toronto, ONT,
Canada

Presentation of ACI-James Instruments Student Award for Research in Nondestructive Testing
Ki Ho Choi, Consultant, James Instruments,
Chicago, IL; and Stephen Pessiki, Associate
Professor, Dept. of Civil & Environmental
Engineering, Lehigh University, Bethlehem, PA
will present the ACI-James Instruments Student Award to Cindy K. Shaw, Graduate
Assistant, Dept. of Civil Engineering, University
of Louisville, Louisville, KY; Kolluru Subramaniam,
Assistant Professor, Dept. of Civil Engineering,
City University of New York, New York, NY;
J. P. Mohsen, Associate Professor, Dept. of
Civil Engineering, University of Louisville,
Louisville, KY; K.C. Willard, Graduate Assistant,
Dept. of Civil Engineering, University of
Louisville, Louisville, KY; and Surendra P. Shah,
Director, Advanced Cement Based Materials,
Northwestern University, Evanston, IL for the paper
titled “Nondestructive Technique for Monitoring
Strength Gain in Highway Structures.”
RESEARCH IN PROGRESS

Influence of Tension Strain on Buckling in Reinforced Concrete Columns

Mervyn Kowalsky, Assistant Professor, Dept. of Civil Engineering, North Carolina State University, Raleigh, NC and Matthew J. Moyer, Graduate Research Assistant, Dept. of Civil Engineering, North Carolina State University, Raleigh, NC

Tests of Headed Bar Anchorages in Nodes and Lap Slices

Michael K. Thompson, Graduate Research Assistant, Ferguson Structural Engineering Laboratory, University of Texas – Austin, Austin, TX; James O. Jirsa, Professor, Dept. of Civil Engineering, University of Texas – Austin, Austin, TX; and John E. Breen, Professor, Ferguson Structural Engineering Laboratory, University of Texas – Austin, Austin, TX

Shear Strength of FRP Reinforced Concrete Beams

A. Koray Tureyen, Graduate Research Assistant, Dept. of Civil Engineering, Purdue University, West Lafayette, IN and Robert J. Frosch, Assistant Professor, Dept. of Civil Engineering, Purdue University, West Lafayette, IN

The Interface Between Concrete and Bonded Composite in Combined Tension and Shear

Stephen J. Kurtz, Assistant Professor, Dept. of Civil & Environmental Engineering, University of Missouri – Columbia, Columbia, MO and Michael Ash, Honors Student, Dept. of Civil Engineering, University of Missouri – Columbia, Columbia, MO
Degradation in the Polyester Resin Matrix and E-Glass FRP Bars Embedded in Concrete
Mohindra S. Thakur, Graduate
Student, Dept. of Civil Engineering,
Stevens Institute of Technology,
Hoboken, NJ and Khondokar Y. Billah, Associate Professor, Dept. of Civil Engineering,
Stevens Institute of Technology,
Hoboken, NJ

The Influence of Clamping Stresses on the Shear Response of Concrete Beams
Almila Uzel, Graduate Research Assistant,
Dept. of Civil Engineering, University of Toronto,
Toronto, ONT, Canada; Evan C. Bentz,
Assistant Professor, Dept. of Civil Engineering,
University of Toronto, Toronto, ONT, Canada; and Michael P. Collins, Professor, Dept. of Civil Engineering, University of Toronto, Toronto, ONT, Canada

Fire Testing of FRP Strengthened Concrete Beams
Luc R. Taerwe, Professor of Concrete Structures, Director, Dept. of Structural Engineering, Magnel Laboratory for Concrete Research, Ghent University, Ghent, Belgium; Hendrik Blomtrock, Doctoral Researcher, Dept. of Structural Engineering, Magnel Laboratory of Concrete Research, Ghent University, Ghent, Belgium; and Paul Vandevelde, Professor, Dept. of Flow, Heat and Combustion Mechanics, Ghent University, Ghent, Belgium
Moisture Control in Concrete Slabs Using an Innovative Technique
_ Johan L. Stilffenbrand_, Professor,
Dept. of Structural Engineering, Royal
Institute of Technology, Stockholm,
Sweden and _Jonatan Paulsson-Tralla_,
Stockholm Konsult, Stockholm, Sweden

Experimental and Analytical Investigation of Reinforced
Concrete Slabs with Corroded Bars
_P. N. Balaguru_, Professor, Dept. of
Civil Engineering, Rutgers University,
Piscataway, NJ and _Lan Chung_, Professor,
Dept. of Civil Engineering, Dan-kook University,
Seoul, South Korea

Mechanical and Shrinkage Characteristics of Concrete Containing Ultra-Fine Fly Ash
_Kolluru Subramaniam_, Assistant Professor,
Dept. of Civil Engineering, City University of New York, New York, NY; _Roman Grootha_,
Dipl. Ing., Basic Engng (BE-CV), Krupp Uhde GmbH/Thyssenkrupp AG, Dortmund,
Germany; _Surendra P. Shah_, Director,
Advanced Cement-Based Materials, Dept. of Civil Engineering, Northwestern University,
Evanston, IL; _Karthikeyan H. Obba_,
Engineering Supervisor, R & D, Boral
Material Technologies, Inc., San Antonio, TX; and _Russell Hill_, Vice President, Technology Development Group, Boral Material Technologies, Inc., San Antonio, TX

Freezing and Thawing Resistance of Dry Compacted Segmental Retaining Wall Units
_Kevin A. MacDonald_, Vice President,
Engineering Services Dept., Gemstone Concrete Products, Mendota Heights, MN
and _Mark R. Lukkarila_, Chief Petrographer,
Braun Intertec Corporation, Minneapolis, MN
MONDAY, MARCH 26

9:00 AM – 12:00 PM

★ STRENGTH AND CONSTRUCTIBILITY OF CONCRETE PAVEMENTS, OVERLAYS, AND REPAIRS: PART 1

Sponsored by Committee 325

Session Moderator: Norbert J. Delatte
Assistant Professor
Dept. of Civil & Environmental Engineering
University of Alabama - Birmingham
Birmingham, AL

Session Co-Moderator: Neeraj Buch
Assistant Professor
Dept. of Civil & Environmental Engineering
Michigan State University
East Lansing, MI

Introduction
Norbert J. Delatte, Assistant Professor,
Dept. of Civil & Environmental Engineering,
University of Alabama - Birmingham,
Birmingham, AL

The Concrete Mixture – The Key to Pavement Construction Economy and Long-Term Performance
James M. Shilstone, Sr., Chairman,
The Shilstone Companies, Inc., Dallas, TX
and James M. Shilstone, Jr., President,
The Shilstone Companies, Inc., Dallas, TX

Jointed Concrete Pavements for Streets and Local Roads
Dan G. Zollinger, Associate Professor,
Dept. of Civil Engineering, Texas A&M
University, College Station, TX

★ Theme session
MONDAY, MARCH 26

9:00 AM - 12:00 PM

★ STRENGTH
AND CONSTRUCTIBILITY
OF CONCRETE PAVEMENTS,
OVERLAYS, AND REPAIRS:
PART 1

Investigation of Dowel Bar
Retrofitting on PCC Pavement
Responses
Jacob E. Hiller, Graduate Research
Assistant, Dept. of Civil & Environmental
Engineering, University of Illinois, Urbana, IL
and Neeraj Buch, Assistant Professor,
Dept. of Civil Engineering, Michigan State
University, East Lansing, MI

Evaluation of Non-Metallic Fiber
Reinforced Concrete in New Full
Depth PCC Pavements
Clifford N. MacDonald, Technical Service
Specialist, Corrosion Protection Dept.,
3M Company, St. Paul, MN;
Venkataswamy Ramakrishnan, Regent's
Distinguished Professor, Dept. of Civil Engineering,
South Dakota School of Mines & Technology,
Rapid City, SD; Daniel Strand, Project
Engineer, Research Dept., South Dakota
Dept. of Transportation, Pierre, SD; and
K. P. Ramesh, Doctoral Student, South Dakota
School of Mines & Technology, Rapid City, SD

Effect of Curing and Other Factors
on Early-Age Cracking
Erika E. Holt, Research Scientist,
VTT Building Technology, Technical
Research Centre of Finland, Espoo,
Finland; Markku Leito, Group Manager,
Concrete and Stone Materials Group,
VTT Building Materials Division,
Technical Research Centre of Finland,
Espoo, Finland; and Donald J. Janssen,
Associate Professor, Dept. of Civil Engineering,
University of Washington, Seattle, WA

★ Theme session
MONDAY, MARCH 26

9:00 AM – 12:00 PM

★ STRENGTH AND CONSTRUCTIBILITY OF CONCRETE PAVEMENTS, OVERLAYS, AND REPAIRS: PART 1

Concrete Pavement Performance in the Southeast U.S.
Norbert J. Delatte, Assistant Professor, Dept. of Civil & Environmental Engineering, University of Alabama - Birmingham, Birmingham, AL

★ Theme session
MONDAY, MARCH 26

9:00 AM – 12:00 PM

★ CONSTRUCTIBILITY
OF BRIDGES – CONCEPT TO COMPLETION: PART 1

Sponsored by Committees 343 & 345

Session Moderator: Alan B. Matejowsky
Senior Structural Engineer
Parsons Brinckerhoff Quade and Douglas
Austin, TX

Session Co-Moderator: Jeffrey P. Wouters
Senior Engineer
WDP & Associates, Inc.
Austin, TX

Design and Construction of
I-15/US 95 Interchange (The Spaghetti Bowl)
Juan Murrilo, Senior Vice President,
Parsons Brinckerhoff Quade and Douglas,
San Francisco, CA

Strengthening of Pile-Supported
Concrete Aircraft Taxiways Over Water
Frank B. Krupicka, Associate Structural Engineer, Engineering Dept., The Port Authority of NY & NJ, New York, NY;
Joseph M. Englot, Chief Structural Engineer, Engineering Dept., The Port Authority of NY & NJ, New York, NY; and
Ralph J. D'Apuzzo, Senior Engineer, Engineering Dept., The Port Authority of NY & NJ, New York, NY

Cable-Stayed Erection of Concrete Arch Bridges
W. Scott McNary, Vice President,
Finley McNary Engineers, Inc.,
Broomfield, CO and Thomas W. Stelmac,
Regional Bridge Engineer, Finley McNary Engineers, Inc., Broomfield, CO

★ Theme session
MONDAY, MARCH 26

9:00 AM – 12:00 PM

★ CONSTRUCTIBILITY (Continued)
OF BRIDGES – CONCEPT TO COMPLETION: PART 1

US 183 Elevated Expressway
Construction
Dean Van Landuyt, Senior Design
Engineer, Bridge Division, Texas
Dept. of Transportation, Austin, TX

The Lindbergh Bridge:
Rehabilitation of A Historic
Open Spandrel Arch Bridge
David A. Whong, Project Manager,
McCormick, Taylor & Associates,
Malvern, PA and Sandra G. Detterline,
Project Manager, McCormick, Taylor
& Associates, Malvern, PA

Reconstructing Salt Lake City’s
I-15 with Design-Build Options
Robert B. Anderson, Senior Structural
Engineer, URS Corporation, Tampa, FL

★ Theme session
MONDAY, MARCH 26

9:00 AM – 12:00 PM

TECHNICAL COMMITTEE
CHAIR TRAINING SESSION

Sponsored by the Technical Activities Committee

Session Moderator:  Julio A. Ramirez
Professor/Assistant Head
Graduate Programs
School of Civil Engineering
Purdue University
West Lafayette, IN

Session Co-Moderator:  Om P. Dixit
Vice President
DMJM + Harris, Inc.
New Orleans, LA

Timothy L. Moore
Senior Engineer
San Diego Gas & Electric
San Diego, CA

Introduction  9:00
Julio A. Ramirez, Professor/Assistant
Head, Graduate Programs, School of
Civil Engineering, Purdue University,
West Lafayette, IN

Getting Your Act Together  9:05
Sharon L. Wood, Professor, Dept.
of Civil Engineering, University of
Texas - Austin, Austin, TX

How to Run a Committee Meeting  9:25
Sharon L. Wood, Professor, Dept.
of Civil Engineering, University of
Texas - Austin, Austin, TX

How to Build Your Committee  9:40
Om P. Dixit, Vice President,
DMJM + Harris, Inc., New Orleans, LA

Developing and Submitting
Committee Documents  10:00
Julio A. Ramirez, Professor/Assistant
Head, Graduate Programs, School of Civil
Engineering, Purdue University, West Lafayette, IN
MONDAY, MARCH 26

9:00 AM – 12:00 PM

TECHNICAL COMMITTEE
CHAIR TRAINING SESSION

Balloting Committee Documents
Charles W. Dolan, Professor, Dept.
of Civil Engineering, University of Wyoming,
Laramie, WY

10:25

TAC Document Review
Nicholas J. Carino, Research
Structural Engineer, National Institute
of Standards and Technology,
Gaithersburg, MD

10:55

How to Develop Technical Sessions
Nicholas J. Carino, Research
Structural Engineer, National Institute
of Standards and Technology,
Gaithersburg, MD

11:15

ACI Staff Support
Om P. Dixit, Vice President,
DMJM + Harris, Inc., New Orleans, LA

11:35

Questions & Answers

11:45
MONDAY, MARCH 26

11:30 AM – 1:00 PM

SESSION MODERATOR
Salon K
ORIENTATION WORKSHOP

Sponsored by Committee E903

Session Moderator:  
David G. Kittridge  
Principal Engineer  
Maitland, FL

The purpose of this workshop is to review the session moderator's role in leading quality sessions at ACI conventions. The review includes the Session Moderator Orientation Packet and the duties of the ACI session moderator. You will also learn how to motivate your speakers and the best methods of communicating with ACI.

This workshop will also be presented on Sunday, March 25, 11:30 AM – 1:00 PM in Salon K.

All moderators of convention sessions are required by TAC and EAC to attend one of these orientation workshops. If you know that you will be a moderator for a session at a future convention, and have not yet attended one of the workshops, please attend this session on Sunday or Monday.
MONDAY, MARCH 26

12:00 PM – 2:00 PM

✓ STUDENT LUNCHEON

$36 per person

Liberty A

Sponsored by E801 & the ACI Delaware Valley Chapter

After lunch, awards will be given for the Student Egg Protection Device Competition.

Speaker: D. Kirk Harman
President
Cagley, Harman & Associates
King of Prussia, PA

Topic: A Case Study in Constructibility

Mr. Harman is the president of the engineering firm Cagley, Harman & Associates, which was the structural engineer for the Philadelphia Marriott Hotel. He will review the constructibility challenges the design team encountered on the project and the engineering solutions implemented to address those challenges.

As a special part of the luncheon, the Educational Activities Committee will honor Om P. Dixit as the “2000 Educational Committee Member of the Year.”

MENU

Caesar Salad
Grilled Tuscan Chicken with Natural Sauce and Red Onion Marmalade
Chef Selection of Pasta
Sauteed Zucchini and Squash
Fresh Baked Rolls and Butter
Spice Cake with Caramelized Peaches and Fresh Whipped Cream
Coffee, Tea, Decaf
Ice Tea

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ Separate fee required
MONDAY, MARCH 26

2:00 PM – 5:00 PM

★ STRENGTH AND CONSTRUCTIBILITY OF CONCRETE PAVEMENTS, OVERLAYS, AND REPAIRS: PART 2

Sponsored by Committee 325

Session Moderator: Norbert J. Delatte
Assistant Professor
Dept. of Civil & Environmental Engineering
University of Alabama - Birmingham
Birmingham, AL

Session Co-Moderator: Neeraj Buch
Assistant Professor
Dept. of Civil & Environmental Engineering
Michigan State University
East Lansing, MI

Introduction 2:00

Norbert J. Delatte, Assistant Professor,
Dept. of Civil & Environmental Engineering,
University of Alabama - Birmingham,
Birmingham, AL

Accelerated Load Facility (ALF) 2:05

Test of Ultra-Thin Whitetopping
James A. Sherwood, FHWA, Office of Research,
Development and Technology, McLean, VA;
Mauricio Ruiz, Project Manager, Transtec
Consultants, Austin, TX; Robert Rasmussen,
Chief Engineer/Vice President, Transtec Consultants,
Austin, TX; and Xicheng Qi, Highway Engineer,
Salut, Inc., Beltsville, MD

High-Performance Bonded Concrete Overlays 2:35

Norbert J. Delatte, Assistant Professor,
Dept. of Civil & Environmental Engineering,
University of Alabama - Birmingham,
Birmingham, AL

★ Theme session
MONDAY, MARCH 26

2:00 PM – 5:00 PM

★ STRENGTH AND CONSTRUCTIBILITY OF CONCRETE PAVEMENTS, OVERLAYS, AND REPAIRS: PART 2

Corps of Engineers Experience with Partially Bonded Overlays 3:05
David Pittman, Deputy Director, Geotechnical and Structures Laboratory, U.S. Army Engineer Research and Development Center, Vicksburg, MS

Rehabilitation of Deteriorated Bridge Decks with Ultra-Thin High-Performance Fiber-Reinforced Concrete Overlays 3:35
Venkataswamy Ramakrishnan, Regent's Distinguished Professor, Dept. of Civil Engineering, South Dakota School of Mines and Technology, Rapid City, SD; Clifford N. MacDonald, Technical Service Specialist, Corrosion Protection Dept., 3M Company, St. Paul, MN; Daniel Strand, Project Engineer, Research Dept., South Dakota Department of Transportation, Pierre, SD; and K. P. Ramesh, Doctoral Student, South Dakota School of Mines & Technology, Rapid City, SD

Towards a Mechanistic Design Procedure for Bonded Concrete Overlays 4:05
Ramy S. Abdalla, Graduate Research Assistant, Dept. of Civil & Environmental Engineering, University of Alabama – Birmingham, Birmingham, AL

★ Theme session
MONDAY, MARCH 26

2:00 PM – 5:00 PM

★ STRENGTH AND
CONSTRUCTIBILITY OF
CONCRETE PAVEMENTS,
OVERLAYS, AND REPAIRS:
PART 2

(Continued)

First UTW Runway at Savannah
Tennessee
Greg Dean, Executive Director,
ACPA - SE, Cary, NC; Jim Norris,
Tennessee Consultant, ACPA - SE,
Murfreesboro, TN; Ron Fitzgerald,
Project Manager, Aeronautics Division,
Tennessee Department of Transportation,
Nashville, TN; and Tony Manzi,
Vice President, Barge Waggoner
Sumner & Cannon, Nashville, TN
MONDAY, MARCH 26

2:00 PM – 5:00 PM

NONDESTRUCTIVE TESTING OF MASS CONCRETE STRUCTURES

Salon G

Sponsored by Committees 207 & 228

Session Moderator: William F. Kepler
Civil Engineer
Material Engineering & Research Laboratory
U.S. Bureau of Reclamation
Denver, CO

Session Co-Moderator: Caroline Mohorovic
Civil Engineer
Material Engineering & Research Laboratory
U.S. Bureau of Reclamation
Denver, CO

Introduction
William F. Kepler, Civil Engineer,
Material Engineering & Research Laboratory,
U.S. Bureau of Reclamation, Denver, CO

Ultrasound Methods for Mass
Concrete Assessment: The Benefits and the Pitfalls
Bernard H. Hertlein, Associate, Head,
Nondestructive Testing & Geophysics Group, STS Consultants, Ltd.,
Vernon Hills, IL

Reclamation's Experience with Nondestructive Testing of Mass Concrete Structures
William F. Kepler, Civil Engineer,
Material Engineering & Research Laboratory,
U.S. Bureau of Reclamation, Denver, CO;
Caroline Mohorovic, Civil Engineer,
Material Engineering & Research Laboratory,
U.S. Bureau of Reclamation, Denver, CO;
and Erin Gleason, U.S. Bureau of Reclamation, Materials Engineering & Research Laboratory, Denver, CO
NONDESTRUCTIVE TESTING OF MASS CONCRETE STRUCTURES (Continued)

Sonic Pulse Velocity Testing 2:50

to Assess Condition of a Concrete Dam

Edward (Ned) D. Billington, Associate,
AG&E-Schnabel, Greensboro, NC;
Dennis A. Sack, Project Manager,
Olson Engineering, Inc., Wheat Ridge, CO;
and Larry D. Olson, President/Principal Engineer, Olson Engineering, Inc.,
Wheat Ridge, CO

Nondestructive Evaluation of
3:10
Concreting Problems in Some
Large-Volume Structures

Allen G. Davis, Senior Principal Engineer,
Manager, Nondestructive Evaluation,
Construction Technology Labs, Inc.,
Skokie, IL and Malcolm K. Lim, Project Manager, Construction Technology Labs, Inc., Skokie, IL

Application of NDT Techniques 3:30
to Some Mass Concrete Structures Problems

Jamal Khater, Research Engineer,
Dept. of Civil Engineering, University of Sherbrooke, Sherbrooke, QUE, Canada

NDE Applications for Concrete 3:50
Dams

Larry D. Olson, President/Principal Engineer, Olson Engineering, Inc.,
Wheat Ridge, CO
MONDAY, MARCH 26

2:00 PM – 5:00 PM

★ CONSTRUCTIBILITY OF BRIDGES: CONCEPT TO COMPLETION: PART 2

Sponsored by Committees 343 & 345

Session Moderator: Alan B. Matejowsky
Senior Structural Engineer
Parsons Brinckerhoff Quade and Douglas
Austin, TX

Session Co-Moderator: Jeffrey P. Wouters
Senior Engineer
WDP & Associates, Inc.
Austin, TX

Reconstruction of the Pierce Elevated Expressway Using Precast Elements
Kenny Ozuna, Assistant District Bridge Engineer, Houston District, Texas Department of Transportation, Houston, TX

Spliced Pretensioned/Post-Tensioned Precast Concrete Bridges
George N. Tsiourras, Associate, Carter & Burgess, Inc., Denver, CO and Harry J. Jasper, Associate, Carter & Burgess, Inc., Denver, CO

The Big I Interchange in Albuquerque
Ralph J. Salamie, Project Manager, Kiewit, Albuquerque, NM

Long Span Post-Tensioned Concrete Haunched Slab Bridges
Loren R. Risch, Bridge Design Engineer, State Bridge Office, Kansas Department of Transportation, Topeka, KS

★ Theme session
2:00 PM – 5:00 PM

⭐ CONSTRUCTIBILITY (Continued)
OF BRIDGES: CONCEPT TO
COMPLETION: PART 2

Combination of Cast-in-Place and Precast Concrete Elements in Bridge Construction
Jaro Simek, Associate Bridge Engineer, Engineering Department, Caltrans, Fair Oaks, CA

Development of Longer Prestressed Concrete Girders with Incremental Prestressing
Man Yop Han, Professor, Dept. of Civil Engineering, Ajou University, Kyonggido, Korea and Eui Seung Hwang, Professor, Dept. of Civil Engineering, Kyunghee University, Kyonggido, Korea

⭐ Theme session
MONDAY, MARCH 26

2:00 PM – 5:00 PM

REHABILITATION AND REPAIR OF CONCRETE – HOT INDUSTRY ISSUES: PART 1

Sponsored by Committee 364

Session Moderator: Douglas Burke
Materials Engineer
Naval Facilities Engineering Service Center (NFESC)
Port Hueneme, CA

Shrinkage-Compensating Mechanisms of Repair Materials
Benoit Bissonnette, Research Associate,
Dept. of Civil Engineering, Laval University,
Sainte-Foy, QUE, Canada

Some Concerns with Repair of Cracks in Concrete and Concrete Repair
Tate Coverdale, Director, Product Technologies, Research and Development
Dept., Master Builders, Inc.,
Cleveland, OH

Experiences in Rehabilitation of Concrete in Egypt Using FRP
Ibrahim M. Mahfouz, Professor,
Dept. of Structural Engineering, Vice Dean,
Faculty of Engineering, Zagazig University,
Cairo, Egypt

Pull-Off Bond Test – A Quality Control Tool
James E. McDonald, Research Civil Engineer, Corps of Engineers,
Vicksburg, MS and Alexander M. Vaysburd,
Principal, Vaycon Consulting, Baltimore, MD
2:00 PM – 5:00 PM

REHABILITATION AND REPAIR OF CONCRETE – HOT INDUSTRY ISSUES: PART 1

Galvanic Protection for Rebar in Concrete Repair
J. Chris Ball, Vector Corrosion Technologies, Medina, OH and David W. Whitmore, Vice President, Vector Corrosion Technologies, Winnipeg, MAN, Canada

Technical Data Guide Specification
Fred R. Goodwin, Senior Development Scientist, Master Builders, Inc., Cleveland, OH
MONDAY, MARCH 26

5:00 PM – 6:00 PM

WOMEN IN ACI

Join other ACI women for this informal reception and networking opportunity. Refreshments will be served.
MONDAY, MARCH 26

6:30 PM – 8:00 PM

CONCRETE MIXER – Grand

Building a Nation

Hosted by the ACI Delaware Valley Chapter

Join us in the Grand Hall at the Reading Train Shed. Enjoy lively conversation with our forefathers while sampling hors d'oeuvres and spirits.

Scheduled entertainment for the evening will include:

6:30 PM
The Fralinger String Quartet

7:30 PM
Mummers

8:00 PM
Ben Franklin
TUESDAY, MARCH 27

7:00 AM – 8:30 AM

COMMITTEE CHAIRMAN
Salon G

TRAINING BREAKFAST:
TIMELINES & PLANNING
GUIDELINES

Sponsored by Committee E903

Session Moderator: David G. Kittridge
Principal Engineer
Maitland, FL

Coffee and pastries will be served at
7:00 AM for the first 50 people.

A plan is nothing without a timeline. This session is a must for
committee chairmen who want to learn about realistic timelines and
planning guidance.

ACI committee chairmen won’t want to miss out on this unique
opportunity to “get a clue” by getting a plan.
TUESDAY, MARCH 27

7:30 AM – 8:30 AM

CHAPTER FORUM – Salon I

Getting Chapters Involved with Students

Sponsored by the Chapter Activities Committee

Session Moderator: Richard D. Stehly
Principal
American Engineering Testing, Inc.
St. Paul, MN

A Concrete Way to Reach the Local Community
Clifford N. MacDonald, Technical Service Specialist, 3M, St. Paul, MN
and Robert J. MacDonald, Vigilant Enterprise, Inver Grove Heights, MN

Reaching Out to the Next Generation: Concrete Kits for Kids
Luke M. Snell, Professor of Construction and Director, Concrete Construction Resource Unit, Southern Illinois University, Edwardsville, IL
and Billie G. Snell, Research Assistant and Educational Specialist, Concrete Construction Resource Unit, Southern Illinois University, Edwardsville, IL

PARTICIPANTS

Robert J. MacDonald
Vigilant Enterprise
Inver Grove Heights, MN

Nathaniel Brown
Fugett Middle School
West Chester, PA

Peter Byrne
Fugett Middle School
West Chester, PA
TUESDAY, MARCH 27

9:00 AM – 12:00 PM

★ CONTRACTORS' DAY: Salon G
PART 1: CONSTRUCTIBILITY – DESIGN TO CONSTRUCTION; PROBLEMS & SOLUTIONS

Sponsored by the ACI Delaware Valley Chapter

Session Moderator: William A. Gillespie
Senior Structural Engineer
Kling Lindquist
Philadelphia, PA

Session Co-Moderator: J. Paul Hobelmann
Structural Design Principal/Associate
Kling Lindquist
Washington, DC

Constructibility Issues in the Field Erection of Precast/Prestressed Concrete
Aaron M. Vnak, Project Manager,
Precast Services, Inc., Twinsburg, OH

Constructibility of Precast/Prestressed Concrete: Keys to the Successful Precast/Prestressed Concrete Projects
Douglas L. Lorah, Vice President,
High Concrete Structures, Inc., Denver, PA

Constructibility – The Concrete Contractor
Al E. Engelman, Owner, Engelman Construction, Inc., Macungie, PA

Constructibility – Impact on Concrete Mix Designs
Ross S. Martin, Vice President,
Baker Concrete, Construction, Naples, FL

Designing for Constructibility
Allen J. Hulshizer, Consulting
Structural Engineer, Glenside, PA

Constructibility – Concept to Completion
Frank O'Connor, Vice President/Project Executive, Turner Construction Company,
Philadelphia, PA

★ Theme session
TUESDAY, MARCH 27

9:00 AM – 12:00 PM

REHABILITATION AND REPAIR OF CONCRETE – HOT INDUSTRY ISSUES: PART 2

Sponsored by Committee 364

Session Moderator: Michael L. Brainerd
Principal
Simpson Gumpertz Heger, Inc.
Arlington, MA

Worldwide Concrete Repair Manual – 2002
Peter H. Enmons, President,
Structural Preservation Systems,
Hanover, MD

ACI Recent Activities in Concrete Repair/Rehabilitation
Randall W. Poston, Principal,
WDP & Associates, Inc., Austin, TX

Modulus of Elasticity of Repair Material – How Important Is It?
Point of View
Pritpal S. Mangat, Head, Civil Engineering and Constr., Sheffield, United Kingdom;
James Warner, Consulting Engineer,
Mariposa, CA; and Alexander M. Vaysburd,
Principal, Vaycon Consulting, Baltimore, MD

How to Minimize Cost Overruns on Concrete Repair Projects
Ronald E. Heffron, Partner,
Han-Padron Associates, Long Beach, CA
and Douglas Burke, Materials Engineer,
Naval Facilities Engineering Service Center (NFESC), Port Hueneme, CA

Floor Coatings for Aviation Facilities
Dave Gaughen, Research Chemist,
Naval Facilities Engineering Service Center (NFESC), Port Hueneme, CA
9:00 AM – 12:00 PM

★ MECHANICAL SPLICES IN SEISMIC AND BLAST APPLICATIONS

Sponsored by Committees 370 & 439

Session Moderator: Hanns U. Baumann
President
Baumann Engineering
Newport Beach, CA

Session Co-Moderator: Allen J. Hulshizer
Consulting Structural Engineer
Glenside, PA

Introduction
Hanns U. Baumann, President,
Baumann Engineering,
Newport Beach, CA

Relationship Between Strength and Ductility for Mechanical Splices
Conrad Paulson, Consultant, Wiss Janney Elistner Assocs., Chicago, IL

ACI 439 Seismic Splice Performance Report Considerations
Allen J. Hulshizer, Consulting Structural Engineer, Glenside, PA

The Performance of Mechanical Splices Under Monotonic and Cyclic Loading
Steven L. McCabe, Chairman, Dept. of Civil Engineering and Environmental Engineering, University of Kansas, Lawrence, KS and B. Ge, Doctoral Candidate, Dept. of Civil Engineering and Environmental Engineering, University of Kansas, Lawrence, KS
TUESDAY, MARCH 27

9:00 AM – 12:00 PM

★ MECHANICAL SPLICES
IN SEISMIC AND BLAST
APPLICATIONS

Strength, Utility, Economic and Schedule Achievements with Mechanical Splices
Allen J. Hulshizer, Consulting Structural Engineer, Glenside, PA

Performance of Mechanical Connections of 2/3 Scaled SIFCON Hinges Tested Under Quasi-Static Loading
Bryan Wood, BE&K Engineering and Construction, Birmingham, AL and John Hanson, Distinguished Professor,
Dept. of Civil Engineering, North Carolina State University, Raleigh, NC

Recent Advances in the Design and Construction of Precast Concrete Seismic Resistant Systems for High-Rise Buildings, Tall Retaining Walls and Long Span Bridges
Hanns U. Baumann, President, Baumann Engineering, Newport Beach, CA

Suggested Improvements in Seismic and Blast Design
Bob Smith, Erico International, Solon, OH; L. Catarasso, Erico International, Solon, OH; and W. Gene Corley,
Vice President, Construction Technology Labs, Inc., Skokie, IL

Technical Assessment of Mechanical Splices in Blast Resistant Concrete Structures
William H. Zehrt, Chief, Structural Branch, U.S. Army Engineering and Support Center - Huntsville, Huntsville, AL

★ Theme session

98
EVALUATION & REHABILITATION OF HISTORIC CONCRETE BRIDGES

Sponsored by Committee 342

Session Moderator: Om P. Dixit
Vice President
DMJM+Harris, Inc.
New Orleans, LA

Session Co-Moderator: Angel E. Herrera
CMA Architects & Engineers
San Juan, PR

Guidelines for Preservation of Historic Concrete Bridges
Deborah Slaton, Architect Conservator,
Wiss Janney Elstner Associates, Inc.,
Northbrook, IL and Gary J. Klein,
Principal, Wiss Janney Elstner Associates, Inc., Northbrook, IL

9:00 Evaluation and Retrofit of Historic Concrete Arch Bridges in California
Ahmad Abdel-Karim, Senior Bridge Engineer, DMJM+Harris, Sacramento, CA; Thomas R. Barnard, Vice President, DMJM+Harris, Sacramento, CA; and Neil Harris, Vice President, DMJM+Harris, Sacramento, CA

9:30 Load Testing Marsh Arch Bridges
F. Wayne Klaiber, Professor, Dept. of Civil & Constr. Engineering, Iowa State University, Ames, IA and Terry J. Wipf, Professor, Dept. of Civil & Constr. Engineering, Iowa State University, Ames, IA

10:00
TUESDAY, MARCH 27

9:00 AM – 12:00 PM

EVALUATION & REHABILITATION OF HISTORIC CONCRETE BRIDGES

Evaluation of Historic Arch Bridges in Spain
Joan Ramon Casas, Professor, Dept. of Civil Engineering, Technical University of Catalunya, Barcelona, Spain

10:30

Repair and Upgraded Historic Bridge Decks with Carbon/Epoxy Laminates
Ayman S. Mosallam, Professor, Division of Engineering, California State University, Fullerton, CA and Medhat A. Haroun, Professor, Dept. of Civil and Environmental Engineering, University of California, Irvine, CA

11:00

Swedish Bridges – A Forgotten Cultural Treasure
Johan L. Silfwerbrand, Professor, Dept. of Structural Engineering, Royal Institute of Technology, Stockholm, Sweden

11:30
CONTRACTORS' DAY LUNCHEON  Liberty A
$38 per person

Hosted by:  The Construction Liaison Committee (CLC) & the ACI Delaware Valley Chapter

Speaker:  Kenneth C. Hover
Professor
Cornell University
Ithaca, NY

Topic:  Air Entrainment in Concrete: Constructibility Issues

Casting durable, air-entrained concrete only begins with mix design and admixtures – it ends with mixing, transport, placing, consolidation, and finishing. Hear how these steps can affect air content and bubble size. The end result depends on construction technique and on testing.

MENU
Field Greens with Tomatoes, Black Olives, Red Onion and Basil Vinaigrette
Grilled Filet Mignon with Balsamic Demi Glace and Red Onion Confit
Baked Potato and Seasonal Vegetables
Fresh Baked Rolls and Butter
Cheesecake
Coffee, Tea, Decaf
Ice Tea

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have any dietary restrictions.

Separate fee required
2:00 PM – 5:00 PM

★ CONTRACTORS’ DAY: Salon G
PART 2: CONSIDERATIONS
FOR PLANNED PROJECTS – DISCUSSION OF CONSTRUCTIBILITY
ISSUES FROM CAST-IN-PLACE, PRECAST, DESIGN AND CONSTRUCTION
MANAGEMENT PERSPECTIVES

Sponsored by the ACI Delaware Valley Chapter

Session Moderator: William A. Gillespie
Senior Structural Engineer
Kling Lindquist
Philadelphia, PA

Session Co-Moderator: J. Paul Hobelmann
Structural Design Principal/Associate
Kling Lindquist
Washington, DC

This afternoon session will be a panel discussion featuring the speakers from the morning session. A brief summary of each speaker’s presentation will be given followed by an open question and answer period with the audience.
TUESDAY, MARCH 27

2:00 PM – 5:00 PM

RECENT ADVANCES IN THE SEISMIC-RESISTANT DESIGN OF CONCRETE BRIDGES

Sponsored by Committee 341

Session Moderator: Eric B. Williamson
Assistant Professor
Dept. of Civil Engineering
University of Texas
Austin, TX

Session Co-Moderator: Sarah L. Billington
Assistant Professor
Dept. of Civil & Environmental Engineering
Cornell University
Ithaca, NY

Improved Seismic Details for Concrete Highway Bridges
James E. Roberts, Chief Deputy
Director, Operations, California Department of Transportation, Sacramento, CA

Seismic Strategies for Long Jointless Bridges
Paul Gauvreau, Principal, J. Muller
International Bridge Engineers,
New York, NY

Screening, Seismic Evaluation and Retrofit of Concrete Cantilever Retaining Walls
Kenneth L. Fishman, Geotechnical Engineer, McMahon & Mann Consulting Engrs., P.C., Buffalo, NY

Uncertainties in Performance Estimates of RC Bridge Columns
Marc Eberhard, Associate Professor,
Dept. of Civil & Environmental Engineering,
University of Washington, Seattle, WA
RECENT ADVANCES IN THE SEISMIC-RESISTANT DESIGN OF CONCRETE BRIDGES

Assessing the Effectiveness of Reducing Seismic Vulnerability by a Program of Bridge Pier Wrapping
Neil M. Hawkins, Professor Emeritus, Dept. of Civil Engineering, University of Illinois – Urbana-Champaign, Urbana, IL and Qun (Joan) Zhong, Predoctoral Research Assistant, Dept. of Civil Engineering, University of Illinois – Urbana, Champaign, Urbana, IL

Seismic Response of Vertically Post-Tensioned Substructures
Sarah L. Billington, Assistant Professor, Dept. of Civil & Environmental Engineering, Cornell University, Ithaca, NY and Wing-Pin Kean, Design Engineer, Leslie E. Robertson and Associates, New York, NY
TUESDAY, MARCH 27

2:00 PM – 5:00 PM

★ TEACHING CONSTRUCTIBILITY

Sponsored by Committee E802

Session Moderator: Douglas B. Cleary
Associate Professor
Dept. of Civil & Environmental Engineering
Rowan University
Glassboro, NJ

Introduction
Douglas B. Cleary, Associate Professor,
Dept. of Civil & Environmental Engineering,
Rowan University, Glassboro, NJ

What is Wrong with This Picture? 2:05
A Constructibility Review from
the Trenches
Wen-Ping (Nick) Chen, Director
of Engineering, Sverdrup Civil, Inc.,
Boston, MA

Diminishing Constructibility 2:30
Exposure Stifles Student's
Introduction into the Design Field
Allen J. Halshizer, Consulting
Structural Engineer, Glenside, PA

A Software Program for Teaching 2:55
Concrete Acceptance
Luke M. Snell, Professor, Construction,
Director, Concrete Construction Research
Unit, Southern Illinois University –
Edwardsville, Edwardsville, IL and
Jerry B. Weinberg, Assistant Professor,
Computer Science Dept., Southern
Illinois University – Edwardsville,
Edwardsville, IL

Reinforcement Detailing and How it
Affects Constructibility
P. N. Balaguru, Professor, Rutgers
University, Dept. of Civil & Environmental
Engineering, Piscataway, NJ and
Andrew J. Foden, Senior Structural Engineer,
Parsons Brinckerhoff, Princeton, NJ

★ Theme session
★ TEACHING CONSTRUCTIBILITY

Constructibility Issues — 3:45
Information Transfer in the
Concrete Construction Industry —
The Contractors’ Perspective
Judson F. Vogdes, Director of Education,
General Building Contractors Association,
Philadelphia, PA

Design & Construction of 4:10
a Reinforced Concrete Cross
in Honduras
Shawn P. Gross, Assistant Professor,
Dept. of Civil & Environmental Engineering,
Villanova University, Villanova, PA and
David W. Dinehart, Assistant Professor,
Dept. of Civil & Environmental Engineering,
Villanova University, Villanova, PA

Group Discussion 4:35

★ Theme session

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TUESDAY, MARCH 27

2:00 PM – 5:00 PM

OPEN PAPER SESSION

Sponsored by Committee 123

Session Moderator: Daniel A. Kuchma
Assistant Professor
Dept. of Civil & Environmental Engineering
University of Illinois
Urbana, IL

Session Co-Moderator: JoAnn P. Browning
Assistant Professor
Dept. of Civil & Environmental Engineering
University of Kansas
Lawrence, KS

Introduction 2:00
Daniel A. Kuchma, Assistant
Professor, Dept. of Civil & Environmental
Engineering, University of Illinois, Urbana, IL

Hysteretic Modeling of 2:05
Slab-Column Connections
Ian N. Robertson, Associate Professor,
Dept. of Civil Engineering, University of
Hawaii, Honolulu, HI and Brian Enomoto,
Research Assistant, Dept. of Civil Engineering,
University of Hawaii, Honolulu, HI

Behavior and Modeling of 2:30
Variably Confined Concrete
Kent A. Harries, Assistant Professor,
Dept. of Civil & Environmental Engineering,
University of South Carolina,
Columbia, SC and Gayatri Kharel,
Graduate Research Assistant,
Dept. of Civil & Environmental Engineering,
University of South Carolina,
Columbia, SC
OPEN PAPER SESSION

Failure Criteria for Plate Delamination in Composite-Strengthened Beams
Stephen J. Kurtz, Assistant Professor, Dept. of Civil & Environmental Engineering, University of Missouri – Columbia, Columbia, MO and P. N. Balaguru, Professor, Dept. of Civil & Environmental Engineering, Rutgers University, Piscataway, NJ

Controlled Bond Failure of Glass Fiber-Reinforced Polymers (GFRP) Reinforcing Bars in Concrete
Stavroula J. Pantazopoulou, Professor, Dept. of Civil Engineering, Demokritos University of Thrace, Xanthi, Greece and Souzana P. Tastani, Research Engineer, Dept. of Civil Engineering, Demokritos University of Thrace, Xanthi, Greece

Composite Behavior of Precast Concrete Sandwich Wall Panels
Alexandar J. Mlynarczyk, Project Engineer, Wiss Janney Elstner Associates, Princeton Junction, NJ and Stephen Pessiki, Associate Professor, Dept. of Civil & Environmental Engineering, Lehigh University, Bethlehem, PA
OPEN PAPER SESSION (Continued)

Structural Monitoring of a Prestressed Concrete Girder Bridge and a Quay Wall with Bragg Grating Sensors
Luc R. Taerwe, Professor/Director,
Dept. of Structural Engineering, MagneLaboratory for Concrete Research, Ghent University, Ghent, Belgium;
Wim Moerman, Research Assistant,
Dept. of Structural Engineering, MagneLaboratory for Concrete Research, Ghent University, Ghent, Belgium;
Wim De Waele, Research Assistant, Dept. of Mechanical Constr. & Production, Mechanics of Materials & Structures, Ghent University, Ghent, Belgium; Joris Degrieck, Professor, Dept. of Mechanical Constr. & Production, Mechanics of Materials & Structures, Ghent University, Ghent, Belgium;
Roel Baets, Professor, INTEC, Ghent University, Ghent, Belgium; and Michiel Callens, Engineer, Dept. of the Flemish Community, Dept. of Environment & Infrastructure, Ghent, Belgium

Beam-Bending Method for Measuring Permeability of Cement and Mortar
Wilasu Vichit-Vadakan, Graduate Student, Dept. of Civil & Environmental Engineering, Princeton University, Princeton, NJ and George W. Scherer, Professor, Dept. of Civil & Environmental Engineering, Princeton University, Princeton, NJ
TUESDAY, MARCH 27

4:30 PM – 6:00 PM

CONTRACTORS’ DAY  
RECEPTION & FORUM

Franklin B

Sponsored by the ACI Delaware Valley Chapter, ACI International, and the American Society of Concrete Contractors (ASCC).

This forum and reception will invite nonmembers in attendance to discover the benefits of and join the ranks of ACI membership.
TUESDAY, MARCH 27

6:30 PM – 9:00 PM

HOT TOPIC SESSION: Salon E
SLAB MOISTURE &
FLOOR-COVERING FAILURES –
WHO'S TO BLAME?

Sponsored by the Hot Topic Committee & the ACI Delaware Valley Chapter

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

Session Co-Moderator: Paul D. Spiegel
Director of Constr. Services
Pennoni Associates, Inc.
Bridgeport, PA

Overview of Floor Moisture and the Problems it Causes
Ward R. Malisch, Senior Managing Director, ACI International,
Farmington Hills, MI

Case Studies
Brian J. Pashina, Consultant,
Wiss, Janney, Elstner Associates, Inc.,
Minneapolis, MN

Test Methods
Scott M. Turr, Senior Engineer,
Construction Technology Labs, Inc.,
Skokie, IL

Prevention
Bruce A. Suprenant, Vice President,
Engineering and Technical Services,
Baker Concrete Construction,
Boulder, CO

Questions and Answers

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TUESDAY, MARCH 27

7:30 PM – 10:00 PM

123 FORUM: DESIGN BUILD vs. TRADITIONAL CONSTRUCTION

Sponsored by Committee 123

Session Moderator: Mohammad S. Khan
Vice President
Professional Service Industries, Inc.
Fairfax, VA

Session Co-Moderator: Jan Olek
Associate Professor
Dept. of Civil Engineering
Purdue University
West Lafayette, IN

Introduction

Mohammad S. Khan, Vice President,
Professional Service Industries, Inc.,
Fairfax, VA

Design-Build in the Private Sector

Andrew A. Signore, President,
Design-Build Institute of America/
Pennsylvania Chapter, Lafayette Hill, PA

Design-Build Promotes Innovation

Thomas D. Verti, President, Charles
Pankow Builders, Ltd., Altadena, CA

Do It Right The First Time

G.P. (Jum) Horst, Director of Design/Build
Services, Baker Concrete Construction, Inc.,
Monroe, OH

Design-Build – Improvement for Project Delivery

Earl L. Neiderhiser, District Engineer,
Engineering District 9-0, Pennsylvania Dept.
of Transportation, Hollidaysburg, PA
TUESDAY, MARCH 27

7:30 PM – 10:00 PM

123 FORUM: DESIGN BUILD vs. TRADITIONAL CONSTRUCTION

(Continued)

Quality Incentives in Traditional Construction

Tom Scott, Construction Operations Engineer, Federal Highway Administration, Sterling, VA

The Viability of Traditional Project Delivery Methods in the Design-Build World

Andrew J. Sauvage, Associate Principal, Daniel, Mann, Johnson & Mendenhall, Arlington, VA

Questions and Answers
WEDNESDAY, MARCH 28

9:00 AM – 12:00 PM

INTERNATIONAL STANDARDIZATION & ACI

Sponsored by ISO Technical Committee-71 and 318

Session Moderator: John E. Breen
Al-Rashid Chair
Dept. of Civil Engineering
University of Texas
Ferguson Structural Engineering Laboratory
Austin, TX

Session Co-Moderator: W. Gene Corley
Vice President
Construction Technology Labs, Inc.
Skokie, IL

Introduction 9:00
John E. Breen, Al-Rashid Chair, Dept. of Civil Engineering, University of Texas, Ferguson Structural Engineering Laboratory, Austin, TX

ISO TC-71 – An Overview 9:10
James R. Cagley, President,
Cagley & Associates, Rockville, MD

Performance and Assessment Requirements – Umbrella Code 9:35
W. Gene Corley, Vice President,
Construction Technology Labs, Inc., Skokie, IL

Simplified Design Standards for Concrete Structures – An Overview 10:05
Nelson Sanchez, ICONTEC, Colombia
and Luis E. Garcia, Partner/President,
Projects y Disenos Ltda, Bogota, Colombia
Specific Design Examples for Simplified Design Approach
Luis E. Garcia, Partner/President, Projects y Diseños Ltda, Bogota, Colombia
10:35

Geotechnical Design – A Simplified Design Approach
Augusto A. Espinosa, Geotechnical Engineer, AREAS Ltda, Bogota, Colombia
11:05

Test Methods for Concrete – ISO TC-71/SC1 Documents
Mony Ben-Bassat, Technion National Building Research Institute, Haifa, Israel and Lia Fischer, Civil Engineer, Senior Standardization Officer, The Standards Institution of Israel, Tel Aviv, Israel
11:35
ACI 548 – POLYMERS IN CONCRETE: THE FIRST 30 YEARS: PART 1

Sponsored by Committee 548

Session Moderator: Richard C. Prusinski
Principal
Polymer Concrete Consultants, Intl.
Bloomfield Hills, MI

Session Co-Moderator: David W. Fowler
Professor
Dept. of Civil Engineering
International Center for Aggregate Research
University of Texas – Austin
Austin, TX

Introduction 9:00
Richard C. Prusinski, Principal,
Polymer Concrete Consultants, Intl.,
Bloomfield Hills, MI

History of ACI Committee 548 9:05
The First 30 Years
James T. Dikeou, Consultant,
Englewood, CO

50 Year History of Polymers in Concrete – A Review 9:25
Wafeek S. Wahby, Associate
Professor/Coordinator, Industrial Technology Program, School of Technology, Eastern Illinois University,
Charleston, IL

Polymer Concrete – Where We Have Been 10:00
David W. Fowler, Professor, Dept. of Civil Engineering, International Center for Aggregate Research, University of Texas – Austin, Austin, TX
WEDNESDAY, MARCH 28

9:00 AM – 12:00 PM

ACI 548 – POLYMERS IN CONCRETE: THE FIRST 30 YEARS: PART 1 (Continued)

Polymer Concrete Coatings for Wastewater Facilities
Cumaraswamy Vipulanandan, Professor, Dept. of Civil Engineering, University of Houston, Houston, TX and Jie Liu, Post Doctor Fellow, University of Houston, Houston, TX

The Story of How Polyester Highway and Bridge Decks Went From Experimentation to the State of the Art
James E. Maass, Senior Manager, Reichhold Chemical Co., Research Triangle, NC

Precasting with Polymer Concrete – The Anatomy of a Dome
Constantin M. Bodea, President, Metro Cast Corp., Westland, MI
WEDNESDAY, MARCH 28

9:00 AM – 12:00 PM

★ QUALITY ASSURANCE AND CONTROL OF CONSTRUCTION PROJECTS

Sponsored by Committee 121

Session Moderator: Anthony R. Ameruso
Senior Vice President
Ferrara Bros. Building Materials Corp.
Flushing, NY

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

Introduction
Anthony R. Ameruso, Senior Vice President, Ferrara Bros. Building Materials Corp., Flushing, NY

Concrete Product & Quality Management Via the Internet
Farro E. Radjiy, President, Digital Site Systems, Inc., Pittsburgh, PA

Concrete Quality Control and Quality Assurance – Some Reflections
V. Mohan Malhotra, Scientist Emeritus, NRCAN, CANMET, Ottawa, ONT, Canada

Controlling Concrete Quality – Yesterday, Today & Tomorrow
Ken W. Day, Director, Concrete Advice Pty., Ltd., Croydon, VIC, Australia

Concrete Quality Assurance & Control – The Industry Today
Ken Gendrich, Director of Research & Development, Product Department, Command Data, Inc., Birmingham, AL

★ Theme session

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QUALITY ASSURANCE AND CONTROL OF CONSTRUCTION PROJECTS

Ready Mix Quality Assurance – A Producer’s Perspective
Thomas L. Carter, Technical Services Manager, Concrete Products Division, Teichert Materials, Sacramento, CA

Concrete QA/QC Specifying, Testing & Accepting Concrete – The Port Authority of NY & NJ Experience
Casimir Bogucki, Manager, Materials Engineering Department, Port Authority of NY & NJ, Jersey City, NY

Questions & Answers

Theme session
WEDNESDAY, MARCH 28

12:00 PM – 2:00 PM

✓ INTERNATIONAL
LUNCHEON & PROGRAM
$40 per person

Sponsored by the International Committee (IC)

Moderator: Gajanan M. Sabnis
Consultant
Silver Spring, MD

Speaker: Wafeek S. Wahby
Coordinator
Industrial Tech. Program
Eastern Illinois University
Charleston, IL

Topic: China’s Three Gorges Dam

Technology is being challenged and stretched to the limit as never before. Wafeek Wahby will present a summary of a report on the largest dam in the world – China’s Three Gorges Dam. The information and observations were gathered during his visit in the summer of 2000. This was a study of the massive project as it hit the halfway mark of its second and most critical stage.

Speaker: Jo Coke
Consultant
Coke Communications
Chattanooga, TN

The second part of the program will focus on the human side. Almost a million people (out of 1.3 billion) will be displaced by the dam and relocated into new cities. Jo Coke, past president of ACI, led a People-to-People Ambassadors delegation to China last November, and will present this side of the story.
WEDNESDAY, MARCH 28

12:00 PM – 2:00 PM

✓ INTERNATIONAL LUNCHEON & PROGRAM

(MENU)
Balsamic Salad
Grilled Swordfish
Wild Rice
Seasonal Vegetables
Fresh Baked Rolls and Butter
Kahlua Chocolate Cake Topped with Chocolate Ganache
Red or White Wine
Coffee, Tea, Decaf
Ice Tea

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ Separate fee required
WEDNESDAY, MARCH 28

2:00 PM – 5:00 PM

ACI 548 – POLYMERS IN CONCRETE: THE FIRST 30 YEARS: PART 2

Sponsored by Committee 548

Session Moderator: Richard C. Prusinski
Principal
Polymer Concrete Consultants, Intl.
Bloomfield Hills, MI

Session Co-Moderator: David W. Fowler
Professor
Dept. of Civil Engineering
International Center for Aggregate Research
University of Texas – Austin
Austin, TX

Introduction 2:00
Albert O. Kaeding, Vice President of Engineering, CDR Systems Corp., Ormond Beach, FL

Development and Applications of Various Polymer Concrete Engineered Materials 2:02
Jack J. Fontana, President, Polycrrete, Inc., Waverly, NY

Long-Term Durability of Acrylic Modified Cementitious Concrete 2:30
Donald A. Schmidt, Group Leader, Technical Services, Rohm and Haas, Co., Spring House, PA

Impregnation of the Dworshak Dam 3:00
Ernest K. Schrader, Consultant, Schrader Consulting, Walla Walla, WA
ACI 548 – POLYMERS IN CONCRETE: THE FIRST 30 YEARS: PART 2

Self-Repair Epoxy Modified Mortar for Rehabilitation and Strengthening Applications Using FRP
Mahmoud Reda Taha, Structural Engineer, Stantec Consulting, Ltd., Calgary, AB, Canada

Long-Term Durability of Sulfur Concrete in Harsh Chemical Environments
Garth J. Fallis, Director, Technical Services, Vector Construction Group, Winnipeg, MB, Canada

Development of Polymer-Impregnated Concrete
Glenn W. DePuy, Consultant, Denver, CO
2:00 PM – 5:00 PM

★ CONSTRUCTIBILITY OF SHRINKAGE-COMPENSATING CONCRETE

Sponsored by Committee 223

Session Moderator: Karl J. Bakke
Sales Engineer
Kalman Floor Company
Evergreen, CO

Introduction 2:00
Karl J. Bakke, Sales Engineer,
Kalman Floor Company, Evergreen, CO

A Study of Bridge Decks Built Using Shrinkage-Compensating Concrete 2:05
Michael J. Boyle, Vice President,
Valley Forge Laboratories, Inc., Devon, PA

Constructibility and Performance of Various Dowel Systems 2:35
Ernest K. Schrader, Consultant,
Schrader Consulting, Walla Walla, WA

Shrinkage-Compensating Post-Tensioned Concrete at Orange County California Airport 3:05
Edward K. Rice, President, CTS
Cement Manufacturing Company,
Los Angeles, CA

Constructibility of High-Quality Industrial Concrete Floors Using Shrinkage-Compensating Concrete 3:35
Carl N. Yiterberg, President, Kalman Floor Company, Evergreen, CO

Containment Structures Built with Shrinkage-Compensating Concrete 4:05
Lawrence J. Valentine, Principal Engineer, Ashland Chemical Company,
Columbus, OH

Shrinkage-Compensating Concrete in South America 4:35
William F. Perenchio, Senior Consultant,
Wiss, Janney, Elstner Associates, Inc.,
Northbrook, IL

★ Theme session
WEDNESDAY, MARCH 28

2:00 PM – 5:00 PM

★ DESIGN AND CONSTRUCTION OF DURABLE PARKING STRUCTURES

Salon F

Sponsored by Committee 362

Session Moderator: Thomas J. Downs
President
BKBM Engineers
Minneapolis, MN

Session Co-Moderator: Thomas G. Weil
Dispenser Operations Manager
W. R. Grace & Co.
Cambridge, MA

Introduction

Thomas J. Downs, President,
BKBM Engineers, Minneapolis, MN

Structural System Selection
Tables of Parking Structures

Anthony P. Chrest, Corporate Chief
Engineer and Senior Vice President,
Walker Parking Consultants,
Kalamazoo, MI

Precast Pretopped Parking Structures – Making Them Last

Thomas J. D’Arcy, President,
Consulting Engineers Group,
San Antonio, TX

Design Constraints for the Midfield Terminal Parking Garage

Erich L. Martz, Technical Manager,
HNTB Corporation, Kansas City, MO

Durability Analysis Methods for New Parking Structure Design

H. Carl Walker, CEO, Carl Walker, Inc.,
Kalamazoo, MI and Mark A. Postma,
Director of Restoration, Carl Walker, Inc.,
Kalamazoo, MI

★ Theme session
2:00 PM – 5:00 PM

★ DESIGN AND CONSTRUCTION (Continued)
OF DURABLE PARKING STRUCTURES

Quality Assurance During Construction
Martin B. Mikula, President,
Mikula Group, Inc., Madison, VA

Today & Tomorrow’s Testing of Yesterday’s Structures
Boris Dragunsky, President,
Universal Construction Testing,
Highland Park, IL

★ Theme session
THURSDAY, MARCH 29

8:00 AM – 10:00 AM

✓ AWARDS BREAKFAST

Salons E & F

$35 per person

Don’t miss out as ACI honors the men and women of the concrete industry who have contributed to better constructed facilities. Come meet and congratulate them on their achievements.

Also be there as we say “Thank you” to those who will join the ranks of Honorary Membership.

MENU
Fresh Fruit and Berry Goblet
Topped with Crisp Granola
Served with Raspberry Sauce
Breakfast Casserole
Sausage
Assortment of Pastries
Coffee, Tea, Decaf
Orange Juice

Tickets may be purchased at the ACI Registration Desk until 24 hours prior to the event. Please notify the ACI Registration Desk if you have any dietary restrictions.

✓ Separate fee required
GENERAL SESSION

After the Awards Breakfast, plan to attend the Spring 2001 Convention General Session.

Speaker: Richard J. Farley
Principal
Kling Lindquist
Faculty
University of Pennsylvania
Pennsylvania

Topic: Philadelphia's Role in the Concrete Industry

Now that you've been able to see a little of Philadelphia, come and hear of the role that Philadelphia has had in the advancement of concrete structures. Richard Farley will give an overview, with highlights of four projects from different time periods.

Speaker: James O. Jirsa
Professor/Chairman
Dept. of Civil Engineering
University of Texas – Austin
Austin, TX
President
ACI International

Hear a short presidential speech by James O. Jirsa as he gives an overview of his year as President. Also included during the General Session will be the announcement of new ACI officers.
FRIDAY, MARCH 30

7:45 AM – 5:00 PM

ACI EDUCATIONAL SEMINAR

✓ CONTROLLED
LOW-STRENGTH MATERIALS (CLSM)

Sponsored by ACI International & the ACI Delaware Valley Chapter

SEMINAR INSTRUCTORS

Frank A. Kozeliski
President/Materials Engineer
Gallup Sand & Gravel Co.
Gallup, NM

Bruce W. Ramme
Principal Engineer
Fossil Operations Business Unit
Wisconsin Electric Power Company
Milwaukee, WI

Gain a better understanding of Controlled Low-Strength Materials (also known as Flowable Fill), how and where it can be used, how it is tested, produced, and can be specified. Through this seminar you will familiarize yourself with CLSM; learn the properties of CLSM in plastic, in-service, and hardened states; understand how to specify and order CLSM mixtures; and deal with construction issues including mixing, transporting, and quality control.

 Registration opens 7:45 AM
 Session 1 starts 8:00 AM
 Lunch Noon
 Session II starts 1:00 PM
 Seminar Ends 5:00 PM

FREE PUBLICATIONS

This seminar is worth 7.5 PDHs or 0.75 CEUs. The following publications ($122.00 value) are also included free of charge with this seminar:

- ACI 229R-99 (Controlled Low-Strength Materials)
- ACI SP-150 (94) (Controlled Low-Strength Materials)
- ASTM STP 1331 (The Design and Application of Controlled Low-Strength Materials).

Continental breakfast, lunch, and refreshment breaks are included in your registration fee.

✓ Separate fee required
EDUCATIONAL SEMINARS

SPRING 2001

Stop by the convention registration area for an informational flyer. To register or for more detailed information, call the Seminar Registrar at 248/848-3815, fax 248/848-3801, or email jgill@aci-int.org. You can also visit the ACI Seminar Website at www.concreteseminars.com.

SLABS ON GRADE -- Seminar will cover planning and selection of slabs on grade, slab subsurface considerations, thickness design procedures, specifications, and construction to achieve proper floor slab tolerances, special concerns for design details and materials, and prevention of problems.

Includes two FREE publications worth $160.00.

Greenville, SC / May 25
Houston, TX / May 9
Los Angeles, CA / April 12
Seattle, WA / May 1
Wichita, KS / April 18

CONCRETE REPAIR BASICS – This seminar covers condition surveys, repair techniques, repair materials, cracks and joints, application of repair techniques, and case studies.

Includes five FREE publications worth $150.50.

Albany, NY / May 24
Des Moines, IA / May 16
El Paso, TX / April 19
Ft. Myers, FL / April 25
Indianapolis, IN / May 9
New Orleans, LA / April 12
Phoenix, AZ / June 15

REPAIR OF CONCRETE WORKSHOP – This two-day workshop is an in-depth “How-to” on reliable concrete repairs: Determine causes of concrete deterioration, prepare for concrete repair, concrete repair techniques, review research advancements, and actual case histories.

Includes five FREE publications worth $154.50.

Atlanta, GA / April 5 & 6
Boston, MA / May 10 & 11
Dallas, TX / April 12 & 13
EDUCATIONAL SEMINARS

SHOTCRETE FOR REPAIR – This seminar will cover how and when to best use shotcrete, the specification and mix design process, quality control, and inspection. Also covered are shooting techniques, fresh and hardened properties of the materials used, equipment, and many other aspects of shotcrete technology.

Includes five FREE publications worth $140.50.

Birmingham, AL / April 25
Las Vegas, NV / May 2
Tulsa, OK / April 11
Washington, DC / May 16

REINFORCED CONCRETE DESIGN – This two-day seminar will cover design concepts and safety provisions, flexural strength of members, serviceability, shear strength of beams, development of reinforcement, combined bending and axial compression, length effects on columns, design of two-way slabs and plates, footings, and designing for seismic forces.

Includes three FREE publications worth $277.50.

Chicago, IL / April 30 & May 1
Cleveland, OH / June 4 & 5
Denver, CO / April 26 & 27
New Brunswick, NJ / April 3 & 4
New York, NY / May 21 & 22
Tampa, FL / May 14 & 15

CONCRETE PARKING LOTS AND SITE PAVING – Learn how to design, specify, and construct economical and long lasting concrete parking lots and site elements such as driveways, truck lanes, sidewalks, curbs, gutters, and architectural concrete.

Includes four FREE publications worth $122.00

Albuquerque, NM / May 3
Detroit, MI / May 17
Little Rock, AR / April 19
Miami, FL / May 9
Oklahoma City, OK / April 12
Pittsburgh, PA / May 15
San Antonio, TX / April 4
Williamsburg, VA / April 25
EDUCATIONAL SEMINARS

TROUBLESHOOTING CONCRETE
CONSTRUCTION — Learn how to minimize problems with fresh concrete, slabs, vertical concrete, and structural concrete. Discussion to include techniques used to determine the causes of a problem in the field and in the laboratory, including visual observations, nondestructive testing, petrography, and chemical tests.

Includes five FREE publications worth $174.50.

Atlanta, GA / June 8
Charlotte, NC / June 13
Houston, TX / April 11
Kansas City, MO / May 23
Nashville, TN / May 8
Portland, OR / April 30
St. Louis, MO / May 22

CONTROLLED LOW-STRENGTH MATERIALS (CLSM) — An intensive seminar on applications, properties, and materials for high quality Controlled-Low Strength Materials (CLSM), also known as flowable fill. To be covered are specifying and construction techniques for economical mixing, transporting, placing, and quality control.

Includes three FREE publications worth $122.00.

Charlotte, NC / April 18
Dallas, TX / May 10
Las Vegas, NV / June 7
Philadelphia, PA / March 30

318-99 BUILDING CODE — An intensive seminar on the significant changes in the ACI 318-99 Building Code Requirements for Structural Concrete. Learn each change, why it was made, and work through real-life examples.

Includes four FREE publications worth $232.50.

Macon, GA / May 7
Miami, FL / April 5
San Francisco, CA / April 17
EDUCATIONAL SEMINARS

PRACTICAL CONCRETE MATERIALS – This seminar will cover the quality material selection and specifying of concrete and concrete materials including cements, slag, fly ash, silica fume, blended cements, aggregates, and chemical admixtures. Also included is an overview of various testing procedures for fresh concrete, the proper evaluation of test results, and what to do when test results are unacceptable.

Includes four FREE publications worth $146.50.

Baltimore, MD / April 3
Grand Rapids, MI / April 24
Orlando, FL / April 17
San Francisco, CA / May 22

FIBER-REINFORCED CONCRETE – This seminar will cover the use of synthetic, steel, glass, and natural fibers in concrete. An overview of the various types of fibers will be presented, the mechanics of fiber reinforcement, techniques for mixing in concrete, placing, finishing, and examples in application.

Includes four FREE publications worth $167.00.

Austin, TX / April 24
Cincinnati, OH / April 20
Jacksonville, FL / May 2
Los Angeles, CA / June 5
Salt Lake City, UT / April 13
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Fall 2001 Convention
Concrete of the Future
October 28 - November 2, 2001
Wyndham Anatole
Dallas, Texas

Spring 2002 Convention
A Concrete-Driven Renaissance
April 21 - 26, 2002
Marriott Renaissance Center
Detroit, Michigan

Fall 2002 Convention
October 27 - November 1, 2002
Pointe at South Mountain Resort
Phoenix, Arizona

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Thank you for attending the
ACI Spring 2001 Convention.
See you in Dallas!