

September 2010

Concrete Conveyor

**AMERICAN CONCRETE INSTITUTE
SOUTHERN CALIFORNIA CHAPTER**



YOUR SOURCE FOR WHAT'S HAPPENING NOW!

MARK YOUR CALENDAR!

MARK YOUR CALENDARS!

**ACI Southern California Chapter
Dinner & Program**

Chemical Admixtures: Today & Tomorrow

Guest Speaker:

**William S. Phelan
The Euclid Chemical Company**

**Thursday 21 October 2010
Marriott Fullerton
2701 East Nutwood ~ Fullerton, California**

More Details Enclosed

American Concrete Institute Southern California Chapter
P.O. Box 712740 ~ Santee, California 92072
Phone: (877) 562-2241 ~ Fax: (619) 258-5839 ~ Email: aciscc@cox.net
Visit us on the web! www.acisocal.org

PRESIDENT'S MESSAGE

Presidents Report September 2010

Now that summer is almost over, and the kids are back in school, its time to consider advancing your knowledge within the industry that we all love so much. Like the schools, the Southern California chapter of ACI's summer recess is over and all the committees and board members are working diligently to provide all of us with ample opportunities to benefit from chapter membership.

Our Annual membership BBQ was held August 19th, at the Morley Builders yard. We enjoyed good weather, great food and best of all the camaraderie of our colleagues. A big thank you to our exhibitors, Pacific Aggregates, Mr. Crane, Titan Formwork, JLS Concrete Pumping, Grace, Epic Center, Nils Fox with help from Lupe Morales helped to sign up several new chapter members at the event.

Here is a look at what's coming up over the next few months.

September 16th, Past Presidents night, will include a presentation on Shotcrete from Dan Franklin with Superior Gunite. Last year we had 14 past presidents of the chapter in attendance, this year we look to have even more. This event will take place at the Foxfire.

October 21st, Bill Phelan with Euclid will be our guest presenter discussing New Technologies in Concrete. This event will take place at the Fullerton Marriott.

November 18th, join us for The annual Charles Pankow awards Luncheon at the San Antonio Winery, and network with all your colleagues that are building some of Southern California's most interesting projects. The deadline for Project submittals to be considered is October 8th, and forms can be downloaded from the website.

November 30, Jeff Ferris and The education Committee will host the national ACI seminar on Anchorage to Concrete. Visit the website for more details.

Additionally, there is a full schedule of certification programs being offered by your chapter, please check the website calendar to find a date and certification program that works for you.

We are now accepting essays for our 2011 scholarship.

Southern California Chapter, American Concrete Institute
Student Scholarship Eligibility Criteria

1. The student requesting a scholarship shall be referred by a chapter member or someone active in the concrete industry.
2. The student requesting the scholarship shall submit a five hundred word essay (minimum) detailing why he/she wishes to pursue a career in the concrete industry. **Due by November 20, 2010.**
3. Once awarded, the scholarship shall consist of \$5,000 to be disbursed over a four year period in the following fashion: 1st year \$2,000, 2nd year \$1,000, 3rd year \$1,000 and final year \$1,000.
4. To maintain the scholarship over the remaining three years after the initial award the student will have to submit proof of maintenance of a minimum GPA of 3.0 based on a 4.0 system, be a member of ACI at the national level, and show active participation in an ACI chapter. The student will also have to show that he/she is still pursuing a career in the concrete industry.

The scholarship will be awarded on January 20, 2011 at our Sam Hobbs Award Dinner. Please contact Josh Hamilton and/or Jim Blankenship for more information.

James Blankenship - jblankenship@soilretention.com

Josh Hamilton - josh.s.hamilton@grace.com

I will be attending two events in October, The ACI Chapter Roundtable in Little Rock Ark., and the ACI National Convention in Pittsburg, Pa. Both of these events provide opportunities to learn about chapter and national operations and how the chapter can help to provide membership with added benefits. I look forward to sharing with you an update of these events in a future newsletter.

Take the time to invest in you. Join us for one of our networking, learning opportunities, and Certification programs over the next few months.

Chris Forster
President

Chris Forster

ACI Southern California President 2010

What's Happening NOW!

Calendar of Events for 2010

September 15, 18, 22 & 25, 2010	Field Testing Technician Certification Utility Vault (Old Castle Precast), Fontana
October 21, 2010	ACI Dinner & Program Bill Phelan "What's New in Admixture"
October 24-28, 2010	ACI Fall Convention in Pittsburgh, PA Visit www.aciconvention.org for more details
October 26 November 2 & 4, 2010	Strength Testing Technician Certification Metropolitan Water District, La Verne
November 3, 6, 10 & 13, 2010	Field Testing Technician Certification Twining Labs, Long Beach
November 18, 2010	Pankow Awards Luncheon San Antonio Winery, Los Angeles
November 30, 2010	ACI National Seminar Anchorage to Concrete
December 1, 4, 8 & 11, 2010	Field Testing Technician Certification National Ready Mix, Duarte

Schedule of the Procedure Review Meeting for Laboratory Technician Level II is:

October 5, 2010	Metropolitan Water District, La Verne
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DON'T FORGET! ALL THIS INFORMATION & MORE IS AVAILABLE ON OUR WEBSITE!

Check out our calendar at www.acisocal.org frequently for updated Industry news!

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ACI PUBLICATIONS

For more information or to order any of the following publications call 248.848.3800.

National Green Building Standard and Commentary Combo Pack

This standard provides the “green” practices that can be incorporated into new homes, including high-rise multi-family buildings, home remodeling and additions, hotels and motels, and the site upon which the green homes are located. It provides builders with a means to achieve basic, entry-level green building, or achieve the highest level of sustainable “green” building that incorporates energy savings of 60 percent or higher. The Standard can be used by any builder for their individual projects, or be the basis for a local community or state green building program. The commentary provides valuable insight to the intention and implementation of the practices and provisions found in the Standard. The Commentary is a useful resource for any designer or builder using the ICC 700-2008 as a rating system for developing or renovating residential properties of all types to reduce their relative environmental impact. \$72.95; Order Code: NGBSPACK.EM. ACI does not offer discounts on industry publications.

332-10: Residential Code Requirements for Structural Concrete and Commentary

This code covers the design and construction of cast-in-place concrete for one- and two-family dwellings and multiple single-family dwellings (townhouses), and their accessory structures. Among the subjects covered are the design and construction requirements for plain and reinforced concrete footings, foundation walls, and slabs-on-ground, and requirements for concrete, reinforcement, forms, and other related materials. Available in hard copy or PDF format. \$61.50 (ACI members \$37.00); Order Code 33210.EM.

357.2R-10: Report on Floating and Float-In Concrete Structures

This report addresses the practical experience and engineering considerations for the design and construction of floating concrete structures. Recommendations for design loads and design criteria are presented. Design procedures and methods of analysis are discussed to better understand design considerations unique to floating marine structures. Also, construction execution, materials selection and inspection, maintenance, and repair techniques are discussed. Available in hard copy or PDF format. \$69.50 (ACI members \$42.00); Order Code 357210.EM.

ITG-6R-10: Design Guide for the Use of ASTM A1035/A1035M Grade 100 (690) Steel Bars for Structural Concrete

This guide provides design provisions for the use of ASTM A1035/A1035M Grade 100 (690) deformed steel bars for reinforced concrete structural members. This guide addresses only those requirements in ACI 318-08 that limit the more efficient use of such steel bars, and should not affect the application of other code requirements. Design examples are included to illustrate design procedures and proper application of the design criteria. Available in hard copy or PDF format. \$95.50 (ACI members \$58.00); Order Code ITG610.EM.

ACI Fall 2010 Convention, October 24-28, 2010 in Pittsburgh, PA

With approximately 1400 concrete professionals in attendance, the ACI Fall 2010 Convention provides the perfect opportunity to expand your professional network within the concrete industry. You don't have to wait until the convention to start networking. Visit ACI on Facebook, LinkedIn and Twitter to plan meetings or meet likeminded professionals prior to the convention.

In addition these are a few of the networking opportunities you'll have during the convention:

- **Committee Meetings** - Open to all attendees, committee meetings are an excellent opportunity to meet attendees that share the same interests as well as provide input on many issues and trends influencing the concrete industry.
- **Exhibit Area** - The exhibit area is a great place to hold informal meetings, meet the exhibitors, catch up on what's happening in the office or at home via the FREE cyber café, peruse the latest titles at the ACI Bookstore and view the list of open positions in ACI's Career Center.
- **Opening Reception** - Kickoff the week by renewing connections, meeting new friends and learning about the exhibitors.
- **Student & Young Professional Networking Event** - Mingle with tomorrow's industry leaders in a fun and casual environment.
- **Women in ACI Reception** - Get to know other women in the concrete industry while enjoying hors d'oeuvres and great company.
- **Dinner/Dance Cruise** - Join friends, colleagues, and other convention attendees aboard the "Empress" for an evening of great food, music, and dancing.
- **Concrete Mixer** - Enjoy food, cocktails, and a taste of American history as you network with fellow attendees at the Heinz History Center.

Improve the effectiveness and efficiency of your marketing efforts. Showcase your company's products and services to approximately 1400 concrete professionals!

Exhibiting at the ACI Fall 2010 Convention provides a cost-effective platform to generate quality leads, build your brand, network, and show the concrete industry what your company has to offer. Cost: \$1600 for each 10'x10' booth space. Exhibit Hours: October 24-26, 2010; 8:00am until 5:00pm daily. The exhibit area serves as a centralized location for industry professionals to watch demos and presentations from exhibitors, hold informal meetings, stop for refreshments, purchase ACI publications, review employment opportunities in the Career Center, register for the convention or stay connected to work and home at the FREE cyber café and wireless hot spot. Visit <http://www.concrete.org/Convention/Fall-Convention/Exhibitor.htm> or contact Dave Farone at dfarone@essroc.com or 330-540-8775 to reserve your booth space today!

Sponsorship is another great way to increase visibility at the ACI Fall 2010 Convention. Donation levels are represented by historical figures that have made an impact on the city of Pittsburgh. For more information or to become a sponsor, please contact Bill Meek at williamg.meek@cemex.com or 412-523-8612.

For a current listing of exhibitors and sponsors, or to obtain additional information on benefits, please visit www.aciconvention.org.

All contributions to the ACI Fall 2010 Convention are greatly appreciated. Thank you in advance for your help and support!

The **Blast and Impact Loading Response of Concrete Structures: Experimental and Numerical Investigations** session during the Fall 2010 Convention in Pittsburgh, PA will feature presentations on the behavior of concrete structures subjected to blast and impact. This 3-part session will cover experimental investigations and numerical validation, modeling techniques and validation, and new material developments to resist extreme loadings.

All convention attendees are invited to attend this session, especially Engineers, Researchers, and Academic Professionals. Session presentations will include:

Part 1: Sunday, October 24, 2010; 2:00pm - 5:00pm

- Explosive Breaching of Reinforced Concrete Walls: Experimental Efforts and Numerical Simulations - Stephen Akers
- Large-Deflection Response of Fully Grouted Reinforced Masonry Walls to Static and Dynamic Out-of-Plane Pressure - Robert Browning
- Design and Analysis of Bi-Steel Walls using SDOF and FEA Methods, and Comparisons with Explosive Loading Tests - Craig Doolittle
- Finite Element Simulation of Foam Insulated Prestressed Concrete Sandwich Panels Subjected to Blast Loading - James Davidson
- Blast Resistance of Reinforced Concrete Elements subjected to Simulated Blast Loading: Show Tube Testing - Alan Lloyd
- Reliability Based Design Optimization of a Precast Panel Subjected to Blast Loading - Ali Sari

Part 2: Monday, October 25, 2010; 9:00am - 12:00pm

- An Investigation of UHPC/rpc Materials for Enhanced Penetration Resistance - Beverly DiPaolo
- Effects of High-Strength Materials on Blast Response of Reinforced Concrete Panels - Stephen Robert
- Dynamic Comprehensive Toughness of High Strength Fiber Reinforced Concrete - Lihe Zhang
- Full Scale Blast Testing of Hybrid Barrier Systems - Natalia Carey
- Use of Carbon Fiber Anchors to Improve Performance of FRP Strengthened Concrete Structures Subjected to Blast and Impact Loads - Sarah Orton
- Bridge Vulnerability and Blast Mitigation Research - Vincent Chiarito

Part 3: Monday, October 25, 2010; 2:00pm - 5:00pm

- Blast Analysis of Precast Concrete Double-Tee Girders - Liling Cao
- Benchmarking Finite Element Simulation of Hard Missile Impacts on Reinforced Concrete Slabs - Jose Pires
- Behavior and Modeling of Shear-Critical RC Beams Under Impact Loading - Selcuk Saatci
- Validation of SDOF Model by Experiments of RC Slab Subjects to Gas Explosion Loadings - Takefumi Someya
- Constitutive Concrete Material Model Comparison to Tested Reinforced Slabs Subjected to Blast Loads - James Wesevich

- Summary of the New Reinforced Concrete Blast Design Provisions in UFC 3-340-02, "Structures to Resist the Effects of Accidental Explosions" - William Zehert

Attending technical sessions at the ACI Fall 2010 Convention is a great way to add value to your convention experience and advance your concrete knowledge. Session attendees also have the opportunity to earn Professional Development Hours (PDHs). For a complete listing of technical sessions [click here](#).

Take advantage of 30+ sessions at the ACI Fall Convention by registering today at www.aciconvention.org!

ACI Committee 124, Concrete Aesthetics, has compiled a list of seven impressive notable concrete projects in Pittsburgh, Pennsylvania and its vicinity. Even though it is recognized as "The Steel City," Pittsburgh has a great deal of concrete projects that showcase concrete's versatility, strength, and aesthetic value. Featured projects include a retaining wall specially carved and stained to simulate natural rock formations, a historic restoration of Margaret Morrison Carnegie Hall, several massive bridge projects, and many more.

The Notable Concrete compendium features photos and descriptions of each of these projects and is free to download at <http://www.concrete.org/Convention/fall-Convention/PittsNotableConcrete.pdf>.

Attend the Fall Convention and visit each of the following notable concrete projects in your spare time:

- Portico Restoration, Margaret Morrison Carnegie Hall, Carnegie Mellon University
- Allegheny River Bridge
- Oakmont Retaining Walls
- Mon-Fayette Expressway
- I-476 Bridges over the Lehigh River and Pohopoco Creek
- The Encore on 7th
- St. Malachy Catholic Church

Haven't registered for the ACI Fall 2010 Convention in Pittsburgh? Save money and register before September 26, 2010! Register now at www.aciconvention.org.

In an effort to promote literacy in our youth, ACI asks that each attendee brings a new or gently-used book to the convention for children in grades K-12. Donated books will go to the [Pittsburgh Chapter of Communities in Schools](#) an organization that strives to champion the connection of needed community resources with schools to help young people successfully learn, stay in school, and prepare for life. Communities in Schools cannot accept donations of encyclopedias, dictionaries or other reference materials. Book donations may be made in the exhibit area at the David L. Lawrence Convention Center October 23-27, 2010, during open exhibit hours. **Please help ACI reach a goal of 800 books!**

If you are unable to attend the convention and would still like to make a book donation please contact Lauren Mentz at lauren.mentz@concrete.org for more information, or send your donation to ACI headquarters by **October 13, 2010**. Please send book donations to:

American Concrete Institute- Pittsburgh Book Drive
38800 Country Club Drive
Farmington Hills, MI 48331

Thank you in advance for your participation. We look forward to seeing you in Pittsburgh.

ACI Event Services

Phone: 248-848-3795

E-mail: conventions@concrete.org

Follow the ACI Convention on Twitter! #aciconvention

MEMBER UPDATES

***ACI SOUTHERN CALIFORNIA CHAPTER
NEW & RENEWED MEMBERS FOR
July & August 2010***

Murena	Pat	Solomon Colors
Durand	Steven	OMYA
Kreinherder	Mark	Grace
Runyan	Steven	Heider Engineering

***ACI SOUTHERN CALIFORNIA CHAPTER WOULD LIKE TO
THANK YOU FOR YOUR SUPPORT!***

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ACI Southern California Chapter – October 21, 2010

“Chemical Admixtures: Today and Tomorrow”

William S. Phelan – Senior Vice President of Marketing and Technical Services for
The Euclid Chemical Company



William S. Phelan is Senior Vice President of Marketing and Technical Services for The Euclid Chemical Company. He has been with Euclid for 33 years. He received a B.C.E. from the University of Detroit.

He is an Honorary Member and Fellow of the American Concrete Institute, Chairman of ACI 212, “Admixtures”, A Member of ACI Committee 302, (Chairman 1980-1988), “Guide for Concrete Floor and Slab Construction” a member of ACI 117, “Tolerances”, and ACI 308, “Standard Practice for Curing Concrete”. He is also a member of the Strategic Development Council Board of Directors (ACI). He is one of the selected Distinguished Leaders of the Industry Winner for 2007 from The Concrete Industry Board, Inc. in New York City. He is The CANMET-ACI International Conference Winner for 2006 for “Development and Use of Chemical Admixtures in North America”. He is The Samuel A. Face Jr. Award Winner for 2005 – The “Sam Award” for outstanding accomplishments in and contribution to The Art & Science of High Quality Horizontal Concrete Construction. His seminar at the World of Concrete is: “*Using Chemical Admixtures to Achieve Better Concrete*”. He is a member of ASTM C09.22, “*Materials Applied to New Concrete Surfaces*,” ASTM C09.23, “*Chemical Admixtures*,” and ASTM C09.47, “*Self-Consolidating Concrete*.”

Mr. Phelan has been published in Concrete Construction Magazine, Concrete International Magazine and Structures Magazine. His articles include:

- “*Low Shrinkage and Shrinkage Compensating Concrete Benefits*,” Structure Magazine, October 2008
- “*Admixtures and Aggregates: Key Elements in “Athletic Concrete” – Revisited*,” Concrete International, September 2004
- “*Slaying the Curling Dragon*,” Concrete Construction, January 2002
- “*Admixtures and Aggregates: Key Elements of Athletic Concrete*,” Concrete International, April 2000
- “*Planning leads to high-performance floor*,” Concrete Construction, December 1999
- “*Admixtures and HPC: A Happy Marriage*,” Concrete International, April 1998
- “*High-Performance Concrete for Wear Resistant Floors*,” Concrete Construction, October 1997
- “*The Pre-Slab Conference – Essential for a Successful Floor*,” Concrete International, October 1994

Chemical Admixtures: Today and Tomorrow

ACI 212.3R – 10, “Chemical Admixtures for Concrete” will be published in the fall. The categories have been expanded from six (6) groups to thirteen (13). We will cover flowing concrete (7 ½” – 10” slump), Self-Consolidating Concrete, Admixtures for very high early strength, extended set control admixtures, shrinkage reducing admixtures and corrosion inhibiting admixtures. We will review successful projects with mixes containing two or more of these admixtures. We will also highlight the key requirements of high performance concrete and the admixtures and mixes required for them.

ACI Southern California Chapter – October 21, 2010

“Chemical Admixtures: Today and Tomorrow”

William S. Phelan – Senior Vice President of Marketing and Technical Services for
The Euclid Chemical Company

Location: Marriott Fullerton at Cal State University, 2701 E. Nutwood Ave., Fullerton, CA 92831

Cost: Member - \$40.00 Non-Member - \$45.00

Time: Registration / Social 5:00 PM – 5:30 PM
Dinner 5:30 PM – 6:00 PM
Presentation 6:00 PM – 7:00 PM

Reservation: MUST be received by **Friday October 15, 2010**
Heather at: Phone – 877.562.2241; Email – aciscc@cox.net; Fax – 619.258.5839

PAYMENT MUST BE RECEIVED TO CONFIRM RESERVATION!!!!!!

Mail to: ACI, San Diego P.O. Box 712740 Santee, CA 92072

“Chemical Admixtures: Today and Tomorrow”– October 21, 2010

Print Name _____ Phone _____

Reservation Quantity Members _____ Reservation Quantity Non-Members _____

If Members please print all Names of Members _____

Mailing Address _____ City _____ State _____ Zip _____

E-mail for confirmation _____

PAYMENT: ___ Check (payable to ACI, Southern California International Chapter) **OR** ___ Visa ___ MasterCard ___ American Express

Card # _____ Security Code _____ Exp Date _____

Billing Address of Credit Card _____ City _____ State _____ Zip _____

Signature _____

Cancellation: Heather 877/562.2241 - Please CANCEL your reservation(s) at least 24 hours in advance if you are UNABLE to attend.

**SOUTHERN CALIFORNIA CHAPTER
AMERICAN CONCRETE INSTITUTE**

THE ACI ANNUAL PANKOW AWARDS LUNCHEON

Thursday, November 18, 2010

San Antonio Winery

737 Lamar Street, Los Angeles, CA 90031

11:00 – 11:30	Social	Cost: \$50.00 per person
11:30 – 12:15	Lunch	\$400.00 Table of 8
12:15 – 1:45	Awards Presentation	Attire: Business

Payment must be received to confirm Awards Luncheon Reservations

Table(s) will be allocated based on the order of payment received.

Return the tear off portion below and your check, made payable to ACI, Southern California.

Any questions please call 877.562.2241.

Please no Walk-ins day of event!

Reservations must be made by November 5, 2010 in order to fulfill catering requirements

Southern California Chapter - American Concrete Institute **ANNUAL AWARDS LUNCHEON – November 18, 2010**

Company _____ Phone _____

Contact Name _____ Address _____

Email Address _____

Reservation for: Lunch: _____ # people Table: _____ # tables (table of 8)

PAYMENT:

___ Check (payable to ACI, Southern California Chapter)

___ Visa ___ MasterCard ___ American Express Card # _____ Exp. Date _____

Zip code on card _____ Security code _____ (found on the back of the card last three or four digits)

Signature _____

Mail, Fax, or E-mail by **November 5, 2010**

ACI, SoCal, P.O. Box 712740, Santee, CA 92072 Fax: 619.258.5839 e-mail - aciscc@cox.net

ENTRY FORM
The 2010 American Concrete Institute Southern
California Chapter
Charles Pankow Jr. and Excellence in Concrete Awards
Awards Luncheon Thursday November 18, 2010
San Antonio Winery
Plaza San Antonio
737 Lamar Street, Los Angeles, CA 90031-9990
Deadline Date for Submittals: October 8, 2010

Entry Submitted By: _____

Project Name: _____

Contractor: _____

Project Address/ Location: _____

Owner: _____

Structural Engineer: _____

Architect: _____

Concrete Supplier: _____

Project Description and Reason For Choice: (You should add additional description sheets and digital photographs) _____

Project Must Be Complete at Time of Submittal! No Exceptions

The Awards Committee will review all entries, and committee chosen criteria will evaluate project. All decisions will be announced at the Awards Luncheon on November 18, 2010.

If your project is being considered for award, we will need to get the names, addresses and telephone numbers of the; Architect, Contractor, Owner and Structural Engineer. Please submit all information with your application.

Send your entries to: John D. Halverson
Catalina Pacific Concrete
1030 W. Gladstone Street
Azusa, CA 91702

E-mail: jhalverson@calportland.com

Phone: (626) 691-2207

Fax: (626) 969-7669

ACI One-day Seminar

Troubleshooting Concrete Construction

Seminar topics >

Problems with Fresh Concrete

- Admixture incompatibility
- False set
- Plastic shrinkage cracking
- Rapid slump loss

Problems with Slabs

- Abrasion loss
- Carbonation
- Cracking
- Curling
- Discoloration
- Drying shrinkage
- Flatness
- Joint failure
- Misplacement of reinforcement
- Popouts
- Scaling
- Identifying deterioration

Problems with Vertical Concrete

- Air surface voids
- Bug holes
- Form sticking
- Honeycombing
- Sand streaking
- Identifying deterioration

Problems with Structural Concrete

- Cracks, and what they mean
- Fire damage evaluation
- Load tests
- Identifying deterioration
- Field and Laboratory Techniques Used in Concrete**
- Problem Solving**
- Visual observation
- Impact-rebound
- Windspiro probe
- Petrography
- Chemical tests

ACI One-day Seminar

Concrete Repair Basics

Seminar topics >

Condition Survey

- Causes and types of deterioration
- Evaluating deteriorating concrete
- Determining the extent of potential damage
- Assessing the consequences and risks of material failures

Repair Techniques

- Removing damaged concrete
- Preparing existing concrete for repair
- Patching and overlays
- Repair techniques such as shotcrete, carbon fiber reinforcing, and chloride extraction

Repair Materials

- Selecting materials for different repair situations and environments, including sealants, protection systems, cementitious materials, and polymeric materials

Cracks and Joints

- Understanding cracks and joints
- Causes and effects of cracking
- Methods of repairing cracks and joints
- Installing expansion joints for elevated slabs and slabs-on-ground

Applications of Repair Techniques

- Case studies that utilize repair methods and materials for various types of structures

ACI One-day Seminar

Anchorage to Concrete

Seminar topics >

Basic Terminology and Nomenclature Associated with Anchorage to Concrete

- Basic ACI Design Framework for Anchorage to Concrete**
- Designing cast-in and post-installed mechanical anchors by ACI 318-08

- Appendix D—automatic qualification of most cast-in anchors
- Appendix D—qualification of post-installed mechanical anchors required by ACI 355.2
- Introduction to adhesive anchor behavior and ACI 318 design provisions

Background of ACI 318-08 Appendix D

- Behavior of anchors in tension (yield and fracture, concrete breakout, pullout)
- Influence of adjacent edges and anchors
- Influence of cracking
- Behavior of anchors under combinations of tension and shear
- Behavior of complex connections (determination of anchor forces)

Design Example Problems by ACI 318-08 Appendix D

- Single anchors in tension
- Effects on tensile anchors of edge distance, adjacent anchors, and cracking
- Single anchors in shear
- Effects on shear anchors of edge distance, adjacent anchors, and cracking

Background of ACI 355.2-07 (Qualification of Post-Installed Mechanical Anchors)

- More Complex Example Problems by ACI 318-08 Appendix D**
- Multiple-anchor connections under eccentric shear
- Calculating anchor forces by elastic and plastic design approaches
- Designing and detailing

Portland Cement Association has contributed technical information.

ACI One-day Seminar

Concrete Slabs-on-Ground

Seminar topics >

- All topics will not be covered in-depth. Instructors will focus on the topics that are of interest to most attendees.**

- Expectations relative to slab-on-ground performance, serviceability, reference documents, owner, local market, site-specific issues, sustainability, and implied criteria.**
- Engineering considerations; loads, soil support system, concrete mix.**

- Moisture emission and related issues, curing considerations, surface tolerances.**
- Preparation, placing and finishing slabs-on-ground.**
- Slab-on-ground thickness design. Design examples for distributed, rack post, and lift truck loadings; reasonable assumptions for when you don't know.**

- Designing for shrinkage and minimizing restraints to movement: joint spacing, reinforcing options to limit out-of-joint crack width development.**
- Two-course slab systems.**
- Floor joints and load transfer.**
- Reinforcing: conventional deformed bar, welded wire, and fibers.**
- Curing, surface treatments, liquid densifiers, polishing.**

- Plans and specifications: what the engineer should provide and what the contractor should expect.**
- Preconstruction coordination meeting.**
- Problem recognition and remediation.**

ACI/PCA One-day Seminar

Simplified Design of Concrete Buildings of Moderate Size and Height

Seminar topics >

- This seminar will focus on the design of concrete buildings of moderate size and height, in accordance with ACI 318-08, IBC 2009, and ASCE 7-05. The purpose of this seminar is to provide civil, architectural, and structural engineers with ways to simplify design procedures, thus reducing time required to analyze, proportion, and detail small-to-moderate sized projects while still complying with ACI 318-08, "Building Code Requirements for Structural Concrete." Various design considerations that need to be addressed in the structural design and detailing of reinforced concrete buildings will be discussed, including fire resistance, economy, and forming techniques. Numerous design examples will be presented. The examples include wind load calculations, seismic force analysis, simplified design of different slab systems, beams, columns, structural walls, and footings with emphasis on economy. Results obtained from the simplified design methods are compared with those obtained from computer programs.

The seminar is based on PCAs' publication, *Simplified Design of Reinforced Concrete Buildings of Moderate Size and Height*. In addition to detailed design examples, the PCA book includes numerous time-saving design aids, graphs, and tables.

- Frame analysis**
- Design of beams and one-way slabs**
- Design of two-way slabs**
- Design of columns**
- Design of structural walls**
- Design of footings**
- Structural detailing of reinforcement for economy**
- Design considerations for fire resistance**
- Design considerations for earthquake forces**

Who should attend

Anyone involved with concrete construction will gain new insight into the causes and solutions of problems. Whether you are a contractor, design engineer, specifier, material supplier, or government agency, you will come away from this seminar with answers to your most difficult questions.

Continuing education credit

Attendees receive **0.75 CEUs** or **7.5 IUs**, worth **7.5 PDHs**.

Approved course provider for:

- American Institute of Architects (G115; TRO)
- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course 6333)

Free publications—a \$372.00 value

- Specifications for Structural Concrete (ACI 301-05)
- Guide for Concrete Floor and Slab Construction (ACI 302.1R-04)
- Standard Specification for Cast-in-Place Architectural Concrete (ACI 303.1-97)
- Guide to Curing Concrete (ACI 308R-01(08))
- Identification and Control of Visible Effects of Consolidation on Formed Concrete Surfaces (ACI 309.2R-98(05))
- Seminar Lecture Notes

Who should attend

Engineers, repair contractors, material suppliers, and maintenance personnel will learn how to make good-quality concrete repairs.

Continuing education credit

Attendees receive **0.75 CEUs** or **7.5 IUs**, worth **7.5 PDHs**.

Approved course provider for:

- American Institute of Architects (G115; REP)
- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course 6336)

Free publications—a \$318.00 value

- Guide for Conducting a Visual Inspection of Concrete in Service (ACI 201.1R-08)
- Causes, Evaluation, and Repair of Cracks in Concrete Structures (ACI 224.1R-07)
- Guide for Evaluation of Concrete Structures before Rehabilitation (ACI 364.1R-07)
- Strength Evaluation of Existing Concrete Buildings (ACI 437R-03)
- Concrete Repair Guide (ACI 546R-04)
- Seminar Lecture Notes

Who should attend

Engineers, architects, specifiers, and building officials.

Continuing education credit

Attendees receive **0.75 CEUs** or **7.5 IUs**, worth **7.5 PDHs**.

Approved course provider for:

- American Institute of Architects (G115; ANC)
- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course 7673)

Free publications—a \$122.00 value

- Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary (ACI 355.2/355.2R-07)
- Excerpts from ACI 318-08: Chapter 2 and Appendix D
- Excerpt from PCA Notes on ACI 318-08: Chapter 34
- Special handout with notes and design examples authored by the instructors

Who should attend

Specifiers, engineers, architects, contractors, building owners, government agencies, and all others seeking the most up-to-date information on concrete slabs-on-ground.

Continuing education credit

Attendees receive **0.75 CEUs** or **7.5 IUs**, worth **7.5 PDHs**.

Approved course provider for:

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- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course 6339)

Free publications—a \$289.00 value

- Guide for Concrete Floor and Slab Construction (ACI 302.1R-04)
- Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials (ACI 302.2R-06)
- Design of Slabs-on-Ground (ACI 360R-10)
- Other related articles
- Seminar Lecture Notes

Who should attend

Civil, architectural, and structural engineers; building officials; and others involved with reinforced concrete buildings of moderate size and height.

Continuing education credit

Attendees receive **0.75 CEUs** or **7.5 IUs**, worth **7.5 PDHs**.

Approved course provider for:

- American Institute of Architects (G115; SMD)
- Florida Board of Professional Engineers (Provider #0003855)
- Louisiana Professional Engineering and Land Surveying Board
- North Carolina Board of Examiners for Engineers and Surveyors
- Wisconsin Safety and Buildings Division (Course No. 6467)

Free publications—a \$120.00 value

- Simplified Design of Reinforced Concrete Buildings of Moderate Size and Height* (PCA EBI 04)
- Seminar lecture notes authored by the Portland Cement Association

Hosts

The seminar is a joint effort of the American Concrete Institute and the Portland Cement Association.

Fees and sign-up

\$597 Nonmember Registration Fee

\$457 ACI National Member Registration Fee

\$125 Full-Time Student

Faculty Two of the following will be your instructors:

Concrete Repair Basics

James Peter Barlow
Bruce A. Collins
James P. Donnelly
Paul E. Gaudette
James E. McDonald
Myles A. (Tony) Murray
Michael M. Sprinkel

Anchorage to Concrete

Neal S. Anderson
Ronald A. Cook
Richard E. Klingner
Robert R. McGlohn
Donald E. Meinheit

Troubleshooting Concrete Construction

Kim D. Basham
Douglas W. Dero
Frank A. Kozelski
W. Galvin McCall
Charles K. Nimal
Luke M. Sirel

ACI/PCA Simplified Design

James R. Harris
Mahmoud A. Kamara
Dominic J. Kelly
Lawrence C. Novak
Basile G. Rabhat
Andrew W. Taylor
Amy Reincke Tygestad

Concrete Slabs-on-Ground

Barry E. Foreman
Greg K. Fricks
Jerry A. Holland
James Loper
Arthur W. McKinney
Richard E. Smith

For more information on the faculty, go to www.concrete-seminars.com. ACI is not responsible for statements or opinions expressed by instructors.

Please check seminar location and date

Concrete Repair Basics (REP0)

- ILF Chicago, IL—September 28, 2010
- NVE New York, NY—October 12, 2010
- GAF Atlanta, GA—November 2, 2010
- CAF Sacramento, CA—November 16, 2010
- TXF Dallas, TX—December 7, 2010

Anchorage to Concrete (ANCO)

- VAF Richmond, VA—October 5, 2010
- MIF Detroit, MI—October 7, 2010
- PAF Pittsburgh, PA—October 28, 2010
- ARF Little Rock, AR—November 9, 2010
- CAF Los Angeles, CA—November 30, 2010
- IAF Des Moines, IA—December 14, 2010

Troubleshooting Concrete Construction (TROO)

- GOF Denver, CO—September 29, 2010
- UTF Salt Lake City, UT—October 13, 2010
- ILF Chicago, IL—November 3, 2010
- FLF Orlando, FL—December 8, 2010

ACI/PCA Simplified Design (SMD0)

- MINF Minneapolis, MN—October 6, 2010
- MAF Boston, MA—October 20, 2010
- WAF Seattle, WA—November 10, 2010
- NAF Charlotte, NC—November 17, 2010
- MOF St. Louis, MO—December 1, 2010
- TXF Houston, TX—December 15, 2010

Concrete Slabs-on-Ground (SLAO)

- MDF Baltimore, MD—September 30, 2010
- AZF Phoenix, AZ—October 14, 2010
- KVF Louisville, KY—November 4, 2010
- GAF Atlanta, GA—December 2, 2010

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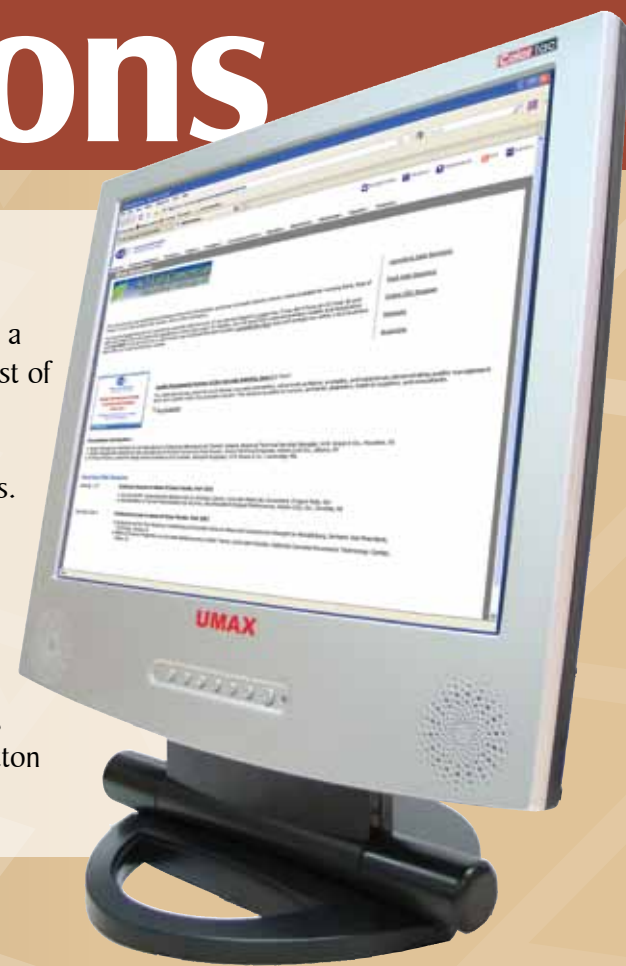
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This primary reference for the ACI Concrete Flatwork Finisher and Technician Certification programs has been completely revised and rewritten for 2010. The third edition includes more of the up-to-date information that concrete craftsmen need to know to produce quality flatwork.



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ACI/PCI Design and Construction of Concrete Parking Structures
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Concrete Repair Basics
Construction of Concrete Slabs-on-Ground
Design of Concrete Slabs-on-Ground
Environmental Engineering Concrete—Design and Details
Portland Cement Concrete Overlays: State of the Technology
Reinforced Concrete Design
Repair of Concrete Bridges, Parking Decks, and Other Transportation Structures
Repair of Concrete Workshop
Seismic and Wind Design Considerations for Concrete Buildings
Seismic Design of Liquid-Containing Concrete Structures
Troubleshooting Concrete Construction
Troubleshooting Concrete Floor Problems
Troubleshooting Concrete Forming and Shoring

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- Designing Concrete Structures; and
- Repair Application Procedures.



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- RAP Bulletin 10—Leveling and Reproiling of Vertical and Overhead Surfaces;
- RAP Bulletin 11—Slabjacking; and
- TC-CSC—RILEM Report on Self-Compacting Concrete (Parts 1 & 2).

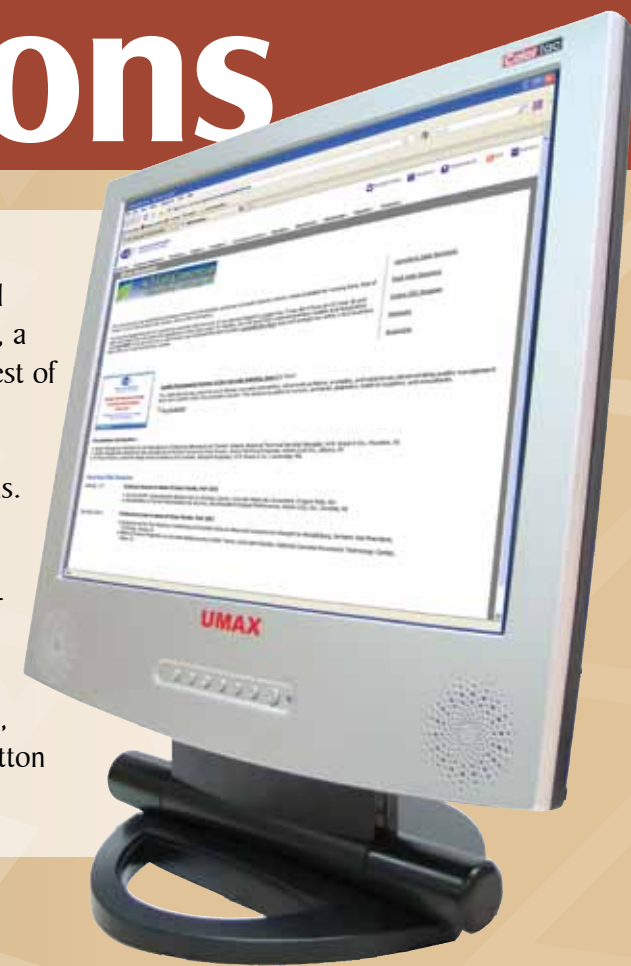
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Construction of Concrete Slabs-on-Ground
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