

**July 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  
Presents our**

**2010 Summer Membership Drive & BBQ**

**Thursday 19 August 2010  
11:00 am to 2:00 pm**

**Hosted by:**

**MORLEY BUILDERS**

**725 South Maple Avenue ~ Montebello, 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](mailto:aciscc@cox.net)  
Visit us on the web! [www.acisocal.org](http://www.acisocal.org)

# PRESIDENT'S MESSAGE

## “The New Norm”

How often have you heard “How are you adjusting to the New Norm”? I thought I would share with you how the chapter is adjusting, and what we are experiencing in these challenging times.

Let's start with a short history lesson. Did you know that the Southern California Chapter was the original Chapter in the ACI Chapter system? Organized with the guidance of Sam Hobbs in 1958, the chapter quickly grew and became “The Organization” for those in the concrete industry in Southern California. There are now ACI Chapters worldwide. Your chapter has been a leader in providing certification programs, scholarships, and industry professionals that participate nationally in ACI.

As in many organizations, changing times require action to keep the organization healthy. Over the past several years the chapter has made some changes to align chapter activities with members needs, here are a few examples:

- A new Executive Director, Heather Caya, helping with all chapter operations and member needs.
- Rotating locations of meetings for convenience to all members throughout Southern California.
- Providing lunch and dinner meetings to accommodate members time availability.
- Developing more convenient certification courses such as the one day Cement Finishing Certification.
- Promotion of events via website and email through the dedicated work of Stef Reder.

So, how are we doing in the “New Norm”?

- New membership is increasing. A membership BBQ is being planned for August 19, 2010. See attached flyer.
- Attendance at lunch and dinner meetings is increasing. The most recent meeting, a joint meeting with our friends from SEAOSC was the highest attendance in many years.
- Our most recent event, The Howard Lux Memorial Scholarship Golf Tournament was sold out. Have your students contact Heather or Jim for scholarship information.
- Certification Programs are being held at or near capacity.
- Participation on National Committees and convention attendance by chapter members is increasing. These chapter members participate in the creation of

documents and codes which govern the way we perform our concrete related activities.

- Interest and participation in our chapter's local committees and event planning has increased, with new ideas and enthusiasm from younger members.

So here we are, 52 years after the Southern California Chapters creation, continuing to lead the industry, as "The Organization" to be involved in. The support of our members in these challenging times is phenomenal. Please plan on joining us at our upcoming events, and bring a friend.

Stay Well,

**Chris Forster**

ACI Southern California President 2010

# ARTICLES FROM ACI

## We Just Can't Talk Enough About the Importance of Jointing

*Presented by your ACI Technical Committee*

There is probably no other topic that has been more highly publicized with straightforward standards in concrete construction than those written on the construction and spacing of control joints for concrete. Yet, uncontrolled shrinkage cracking continues to be one of the most common questions when reviewing flatwork projects.

- *"My concrete cracked, there must be something wrong."*
- *"My concrete cracked, I think that I got a "bad" load."*
- *"I don't know why it cracked, I put steel in it."*

There is relatively no difference between a crack that occurs in a joint, and a random crack that occurs outside of a joint, other than one looks considerably better than the other. How to predict where cracks appear in flatwork can be achieved by following several industry recommendations. Here is a review applicable for all plain concrete:

**Control joint spacing:** Joints should be no further apart than 2.5 times the slab thickness, in feet. Example, a 4" thick slab, should have control joints at intervals not to exceed 10 feet (4 x 2.5). **NOTE:** when using a 3/8" pump mix, it is recommended to reduce this to no more than 2 times the slab thickness, in feet. Example, a 4" thick slab using a 3/8" pump mix, should have joints at intervals not to exceed 8 feet (4 x 2).

**Joint depth:** cut a depth 25% the thickness of the slab in order for the concrete to recognize the area as a "weakened plane." Other types of joints are great for decorative and architectural purposes; however, for a joint to control random cracks, it needs to be cut deep enough in order for it to work. (Think of cutting a piece of glass: in order to make a clean, straight break are you going to score it thin, or deep?) Most conventional tools used for jointing do not have a big enough lip to cut a 4" thick slab 1" deep (25%). Normally, these tools only cut about 3/8" to 1/2" deep; this is not deep enough to ensure that the concrete will recognize this area as weak and therefore develops a crack - which is contradictory to putting the joint there in the first place.

**Other joint locations:** Place joints at any location where the slab changes direction or thickness; also at cut-outs for planters and columns, and other openings or existing elements. These areas create "re-entrant" type corners and are defined by ACI as "prime locations for the development of a random crack."

**Length to width ratios of slab sections:** Keep sections square, or as square as possible. Do not exceed a 1 1/2 to 1 ratio in length to width. Example, if the section is 4 foot wide (like a sidewalk), joints should be placed at intervals no more than 6 feet (4 x 1 1/2). Also, concrete sections do not like to be circular or triangular in shape; square sections tend to expand and contract at fairly equal rates, these other irregular shapes do not.

**Sawing joints:** The time to cut a joint is as soon as possible. In the summer, that is likely later that same day. In the winter, it can usually wait until the next morning after placement. Joint depth is still the same for sawing: 25% the thickness of the slab.

**Prevention of the fresh concrete bonding to existing elements:** Referred to as "Isolation Joints," these joints prevent the fresh, plastic concrete from attaching to existing structures, such

as a house, a block wall, or other existing concrete or brick. If the concrete has the ability to adhere to the existing element, when it tries to shrink away during drying, it can't, so it cracks elsewhere for relief. Isolation joints can be strips of ½ filler purchased at a local construction supply store, or even something as simple as 6 millimeter plastic sheeting to keep the new concrete from sticking to the existing element.

**Steel Reinforcement:** In most cases for residential flatwork (not including the house foundation), steel reinforcement is not only unnecessary, but not recommended. As long as joint spacing is done correctly, steel reinforcement is commonly not necessary. If jointed areas are desired to be interlocked, it is recommended to use smooth, greased dowels, at the jointed location. This will adjoin the separated areas, yet still allow the necessary movements for expansion and contraction. Remember, a joint is created to make weakened area in the concrete for the development of a crack; if this area is reinforced by the presence of steel, the area is no longer weak.

If steel is included in the concrete, it is important that it is 2" below the slab surface. If it ends up in the lower portion of the slab, it really has no purpose. Wire mesh that is laid onto the ground, then pulled up at occasional locations with a hook during placement, is not uniformly distributed 2" below the concrete surface, and therefore becomes a waste of labor, materials, effort, and tends to add no real advantage to the concrete.

**Fiber Reinforcement:** Concrete is naturally weak in tensile strength, therefore it naturally cracks for relief, especially in the early ages of hydration and curing. Can adding fibers prevent all concrete cracks? No. Can they extend joint spacing when used? Sometimes. But what fibers can offer is a significant increase in early tensile strength which can contribute towards lowering the overall appearance of random cracks.

In some cases, these recommendations may actually result in higher costs up front to be performed correctly. However, this may be the same costs that may be avoided later from addressing an unhappy customer regarding cracked concrete complaints.

NRMCA's Concrete Answers series of Web sites continue to climb in Google results for key search terms. Six months ago it was not in the top 50, but the [www.GreenConcrete.info](http://www.GreenConcrete.info) site is now the #1 site returned in a Google search for "green concrete" and it has also moved up to #3 for the search term "sustainable concrete." These other sites have also risen for key search terms in the last six months:

- Concrete Answers hub site is now #1 for "concrete help" search.
- Concrete Parking site is #2 for "parking lot" search.
- Pervious Pavement site is now #1 for "porous pavement" (up from #7 six months ago).
- Self Consolidating Concrete site is now #1 for "self consolidating concrete" search.
- Green Roof Tops site is now #1 for "concrete green roofs."

The high standing of these sites provides a lot of value for NRMCA members and partners. The Google results keep improving because these are well-organized sites with high-quality content that gets updated frequently – and because more and more sites elsewhere on the Web link to these sites (i.e., there are almost 4,500 links on the Web to [www.PerviousPavement.org](http://www.PerviousPavement.org)). Below is the updated chart showing Google ranking for key search terms for the Concrete Answers sites. Thanks go to our many member and partners that have contributed content to help enhance the sites.

<b>Website</b>	<b>Google Ranking</b>	<b>Search Term(s)</b>
ConcreteAnswers.org	#1	<i>concrete help</i>
ConcreteBuildings.org	#1	<i>concrete buildings</i>
ConcreteParking.org	#1	<i>concrete parking</i>
ConcreteParking.org	#2	<i>parking lot</i>
FlowableFill.org	#1	<i>flowable fill</i>
GreenConcrete.info	#1	<i>green concrete</i>
GreenConcrete.info	#3	<i>sustainable concrete</i>
GreenRoofTops.org	#1	<i>concrete green roofs</i>
PerviousPavement.org	#1	<i>pervious concrete;</i> <i>pervious pavement; porous pavement</i>
SelfConsolidatingConcrete.org	#1	<i>self consolidating concrete</i>

**Coming Soon!** [ConcreteStreets.org](http://ConcreteStreets.org) and [DecorativeArchitecturalConcrete.org](http://DecorativeArchitecturalConcrete.org)

Please contact Karen Ochsenreiter, NRMCA's web developer at 1-888-846-7622, ext. 1183 or by e-mail, [kaochsenreiter@nrmca.org](mailto:kaochsenreiter@nrmca.org), with questions about the Concrete Answers Web sites or to suggest new content to further enhance the sites.

# What's Happening NOW!

## Calendar of Events for 2010

July 20, 27 & 29, 2010	Strength Testing Technician Certification Metropolitan Water District, La Verne
August 19, 2010	ACI Membership Drive & BBQ Morley Builders, Montebello
September 16, 2010	Past President Night Fox Fire Grill, Anaheim Hills
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 <a href="http://www.aciconvention.org">www.aciconvention.org</a> 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
December 1, 4, 8 & 11, 2010	Field Testing Technician Certification Catalina Pacific Concrete, Azusa

### 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](http://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.

## **117-10: Specification for Tolerances for Concrete Construction and Materials and Commentary**

This specification provides standard tolerances for concrete construction and materials. This document is intended to be used by specification writers and ACI committees writing standards as the reference document for establishing tolerances for concrete construction and materials. The commentary content is for clarity of interpretation and insight into the intent of the committee regarding the application of the tolerances set forth therein. \$88.50 (ACI members \$54.00); Order Code 11710.EM.

## **214.4R-10: Guide for Obtaining Cores and Interpreting Compressive Strength Results**

This guide summarizes practices for obtaining cores and interpreting core compressive strength test results. Factors that affect in-place concrete strength are reviewed so sampling locations that are consistent with objectives of the investigation can be selected. Strength correction factors are presented for converting the measured strength of non-standard core-test specimens to the strength of equivalent specimens with standard diameters, length-to-diameter ratios, and moisture conditioning. This guide provides direction for checking strength compliance of concrete in a structure under construction and methods for determining equivalent specified strength to assess capacity of an existing structure. \$49.50 (ACI members \$30.00); Order Code 214410.EM.

## **546.2R-10: Guide to Underwater Repair of Concrete**

This guide covers the repair of concrete structures in the splash zone and underwater portions of structures located in lakes, rivers, oceans, and groundwater. Concrete deterioration, investigation and testing procedures, preparation, materials and methodology, and inspection procedures are described. Design considerations and references for underwater repair of concrete bridges, wharves, pipelines, piers, outfalls, bulkheads, and offshore structures are identified. \$63.50 (ACI members \$39.00); Order Code 546210.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.

For more information on these events, visit [www.aciconvention.org](http://www.aciconvention.org). Register now for the ACI Fall 2010 Convention, October 24-28, 2010 in Pittsburgh, PA!

ACI Event Services

Phone: 248-848-3795

E-mail: [conventions@concrete.org](mailto:conventions@concrete.org)

**Follow the ACI Convention on Twitter #aciconvention.**

***ACI SOUTHERN CALIFORNIA CHAPTER  
NEW & RENEWED MEMBERS FOR  
March, April, May, & June***

Forster	Rick	Twining Labs
DiCarlo	Tony	University of Southern California
Ohlwiler	Cliff	Oldcastle Precast
Errol	Asayas	Southwest Inspection & Testing
Slusser	Randy	Erosion Control
Honaker	Jimmy	Southwest Inspection & Testing
Hogue	Scott	Kleinfelder
Saenz	Timothy	Vulcan Materials
Oaks	Brian	Alpha Materials
Gray	Randy	Pyramid Builders
Burkel	Paul	Largo Concrete
Caddy	Darrell	Standard Concrete

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



**ACI Southern California Chapter**

**PRESENTS OUR**

**2010 SUMMER MEMBERSHIP DRIVE & BBQ**

Thursday August 19, 2010 from 11:00am to 2:00pm

**Hosted by: Morley Builders**

**Where: 725 S. Maple Avenue, Montebello CA**

**Ask around about previous years turnouts!**

**IT'S ONLY \$30 FOR MEMBERS AND \$35 FOR NON-MEMBERS**

**DON'T YOU BE LEFT OUT!**

**Raffles prizes food fun**

**EXHIBITOR OPPORTUNITIES @**

**\$75 PER DISPLAY**

**EQUIPMENT**

**PRODUCTS**

**SERVICES**

**INNOVATIONS & MORE!**

# ACI Southern California Chapter

PRESENTS OUR

## 2010 SUMMER MEMBERSHIP DRIVE & BBQ



**Reservation:** MUST be received by **Friday August 6, 2010**

Heather at: Phone – 877.562.2241; Email – [aciscc@cox.net](mailto: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

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***“2010 SUMMER Membership Drive”*** August 19, 2010

Print Name \_\_\_\_\_ Phone \_\_\_\_\_

If Members please print all Names of Members \_\_\_\_\_

Member FEE	\$ _____
Non-member FEE	\$ _____
Exhibitor FEE \$75	\$ _____
10x10' pop tent for exhibitors \$75 (does not include exhibitor entry fee of \$75)	\$ _____
Raffle Ticket (\$2)	\$ _____
50/50 Raffle *you can win half the pot (\$5)	\$ _____
<b>TOTAL</b>	<b>\$ _____</b>

I would like to contribute a prize or gift \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**E-mail REQUIRED** \_\_\_\_\_

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.**

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**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	<b>Cost:</b> \$50.00 per person
11:30 – 12:15	Lunch	\$300.00 Table of 6
12:15 – 1:45	Awards Presentation	<b>Attire: Business</b>

**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.

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

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Southern California International Chapter, Inc. - 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 International 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](mailto:jhalverson@calportland.com)

Phone: (626) 691-2207

Fax: (626) 969-7669

# Here to Serve YOU!

## American Concrete Institute Southern California Chapter

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### 2010 Board of Directors

President: Chris Forster  
Past President: Pat Murena

Vice President: Grant Urban  
Parliamentarian: Rod Elderton

Executive Secretary: Heather Caya

### Board Members:

Robert Graine  
Ed Kripavicius

Josh Hamilton  
Brian Murphy

Charles Kerzic  
Ken Long

### Committee Chairs:

#### Certification:

#### Concrete Field Testing Technician Grade 1

Rod Elderton ~ Chair

#### Concrete Strength Testing Technician

Robert Shafer ~ Chair

#### Flatwork Technician & Flatwork Finisher

Cliff Ohlweiler ~ Chair

#### Lab Certification

Rod Elderton ~ Chair

#### Aggregate Certification

Rod Elderton ~ Chair

#### Construction Special Inspection

Rod Elderton ~ Chair

#### Transportation Construction Inspection

Rod Elderton ~ Chair

#### Education

Jeff Ferris ~ Chair

Quinn McGuire ~ Co-Chair

#### Membership / Hospitality

Heather Caya ~ Chair

#### Publicity

Randy Pace ~ Chair

Heather Caya ~ Co-Chair

#### Student Activities

Josh Hamilton ~ Chair

Brian Murphy ~ Co-Chair

#### Technical

Ken Sears ~ Chair

Gary Kirk ~ Co-Chair

#### Field Day

Jim Blankenship ~ Chair

Randy Stone ~ Co-Chair

#### Awards:

Pankow Awards: John Halverson / Janeen Oliver

Sam Hobbs Award: Rob Graine

#### Nominations

Pat Murena ~ Chair

#### Conveyor Newsletter

Heather Caya / Stefan Reder

#### Program

Grant Urban ~ Chair

#### Website

Stefan Reder ~ Webmaster