



Northern California
& Western Nevada Chapter
CHARTERED 1958

Coming Up

Thank You to the
2009 Members Who
Renewed in 2008!

ACI SPRING 2009 CONVENTION

San Antonio, Texas
For information
visit ACI International
www.concrete.org

2009 ACI GOLF CLASSIC NEWS

2009 Golf Committee Chair
Jim Pickett is reworking the
event for affordability in
the current economy, and
will be providing details
in an upcoming article
in the Chapter News.

STUDENT
ENGINEERS' NIGHT
February 10
Co-hosted by SJSU
Student ACI Chapter

ACI/SEAOC
JOINT MEETING
April 14 Sacramento

ANNUAL MEETING
June 9 Pleasanton

AND WE'RE FINISHING UP
PLANS FOR EVENTS
IN MARCH AND MAY!

ACI Publications,
Career Center, Seminars
and Membership
Information
www.concrete.org

STAMPED IN CONCRETE

Newsletter of the Northern California and Western Nevada Chapter • American Concrete Institute

ACI Roundtable January 13th: What's in the Mix for 2009?

Make Your Reservations for Spenger's!

To provide valuable insight into 2009 and some of its challenges and opportunities, our Chapter Program Chair and Vice President Joe Terrill has assembled another excellent Roundtable panel. Our last Roundtable in February of 2006 was well-received, and with the "interesting" times we live in, we wanted to start the new year off with relevant, interesting presentations. After each presentation, there will be time for questions, answers, and discussion.

Our first ACI Chapter dinner meeting of 2009 focuses on our industry in three areas:

Availability and Requirements of Raw Materials

Bruce Carter

Regional Director, Quality Assurance/Control, Lehigh Hanson West Region

Research and Technical Developments

Mike Gardner

Technical Services Manager, Grace Construction Products

By Example: Use Your Business Strengths to Best Advantage

Frank Barradas

Engineered Concrete Placement

Final Deadline Monday, January 12th

Please call 209-304-5219 or email aci@ideaworks-bl.com

January 13: Spenger's Fresh Fish Grotto

Location: 1919 Fourth Street, Berkeley • Directions: (510) 845-7777
In the Atlantic Room

Social Hour: 6:00 p.m. • Dinner: 7:00 p.m. • Presentation: 8:00 p.m.

Entree Choices: Petrale Sole • Chicken Cordon Bleu • Vegetarian Pasta Primavera

Price: \$40.00 per person includes tip and tax, room and equipment setup
Full-time engineering students \$15.00 if reserved by September 3rd

Credit Cards: We use PayPal to send a payment link to your email inbox

Reservations: Final Deadline Monday, January 12. Reserve NOW!
Fax your reservations, respond to our email, or email us first!

You must cancel your reservation by phone or email no later than 36 hours prior to the meeting. If your dinner is not paid for by a walk-in guest, you will be charged. *The Chapter pays for all reservations, so please keep us informed!*

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Audit
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TED ALLURED
National/Chapter Liaison

President's Notes

Optimism and Affordability Essential for Coping with 2009

AMERICAN CONCRETE INSTITUTE



NORTHERN CALIFORNIA AND
WESTERN NEVADA CHAPTER
CHARTERED 1958

I heard many comments this past Holiday Season regarding the holidays falling in the middle of the week. Since most ACI members are employed in some facet of the construction industry and business is generally slow around the holidays, I hope everyone took this opportunity to take some extra time off and enjoyed the family.

It seems as though most economic indicators are predicting a tough 2009. We should remain optimistic as we will all get through this and it won't last forever.

At the beginning of the December, the local chapter announced that our annual dues would increase by ten dollars if they were not renewed before January 1st. I would like to take this opportunity to extend that date to January 16th. Membership Committee Chairs Al Kaufman and Gregg Allen are doing a great job at cultivating new members and renewals. Thank you.

As you'll note on the front page, our 2009 Golf Classic Chair Jim Pickett is reviewing ways to make the tournament more affordable in our current economy. Jim's professional and association experience is outstanding, and I'm looking forward to learning about Jim's ideas for the golf tournament.

We hope to see all of you at our next meeting, our ACI Roundtable on three industry areas that will matter in 2009.

Wishing you and your family a Happy, Healthy, Prosperous New Year!



Gerard Hoppa, President

Renew Your Membership by January 16 and Save \$10

Membership Committee Chairs Al Kaufman and Gregg Allen note that "over 40" 2008 Chapter Members renewed before the end of the year for \$75 and saved \$10 on 2009 dues. Our closing date for the discounted renewal is now January 16, as Gerard noted above. Only the professional category renewal is affected by the increase, and only the professional category is eligible for \$10 discount.

Thank you to everyone who has already renewed – and we encourage your prompt payment so we can put your name and company in the Membership Directory now targeted for February of 2009.

Chapter Committees – What Are Their Activities?

Many of our Chapter Committees have obvious tasks: **Certification** (977 submitted online in 2008), **Programs, Membership, Golf, Regatta, Construction Awards, and Student Activities**. Other committees are less obvious in their roles but are also important. Our **Audit Committee** reviews the Chapter's financial status on a regular basis and provides analysis and recommendations. The **Education Committee** hosts the ACI Seminars that tour the country and are staged in our region. The **Technical Committee** provides input and review on tech issues and will resume a Technical Focus column in this newsletter authored by Bruce Carter. Bruce will also be hosting a January 2009 Roundtable on Aggregate issues. Our **National/Chapter Liaison** attends Chapter events at ACI Conventions and works with other Chapters and ACI International's Chapter specialists to address common challenges in a stressful time for the industry.

ACI Spring Convention in San Antonio

San Antonio is the city and March 15-19 are the dates for "Infrastructure - Concrete Practice & Placement," the 2009 Spring ACI Convention. The website of the San Antonio Chapter has a convention schedule flyer and much more. A great town and always great events twice a year. Did you attend St. Louis?

See www.aci-sa.org for much more information!

Chuck A. Gregory, P.E. and Richard W. Kistner, P.E., are Co-Chairs of the ACI Spring 2009 Convention





Northern California
& Western Nevada Chapter

2008 ACI Construction Awards

HONORING OUTSTANDING DESIGN & CONSTRUCTION

*Thank You
To Our Sponsors!*



Our February Newsletter will feature the winning team members in more detail and some snapshots from the event. We ran out of space for this issue, and want to provide sufficient follow up on the event.

We had a great evening November 11 with nearly 90 guests and great presentations from the Construction Award winners, and good questions from the attendees. The range of the winning projects was amazing, as were the tales of problem solving and innovation in each winning entry.

Thank You to our judges and to each entry in the 2008 ACI Construction Awards! - Mark Shaw, Committee Chair

Technotes: Caltrans Specification Revisions

Bruce W. Carter, P.E.

I would like to take the opportunity this month to share with you some of the changes that are coming down the pipeline in the arena of Caltrans specifications. Some of these revisions will have a significant impact upon the ready mix concrete business in California.

First, at the request of the cement industry, Caltrans has agreed to treat blended cements (those with pozzolan added at the cement plant) on the same basis as adding fly ash at a ready mix plant. In the past the allowable alkalis in a cement plant blended cement had been treated differently than were the equivalent total alkalis in a cement-pozzolan blend in concrete. This change allowing blended cement has no net impact upon the ready mix producer.

Second, Caltrans has agreed to allow the addition of up to 5% interground limestone in portland cement. This brings Caltrans specifications requirements into harmony with ASTM and AASHTO.

Third, and most significant is the incorporation of a shrinkage requirement for bridge decks and paving concrete. The draft of the specification is being circulated. What you should expect is something on the order of a 0.045% maximum for bridge decks and 0.05% for paving. The shrinkage test method will be the SEAOC "Modified" ASTM C 157 which we commonly use in California. The shrinkage requirement will be for mix prequalification and will apply to laboratory trial batches only. We are championing for the ability to use data from "similar" mixes, and are currently working with Caltrans to define in specification terms what "similar" really means.

It is hoped that agreement on these items can be reached in September with the new SSP being published in October.

Additionally, in the somewhat complicated alkali-silica reactivity mitigation specification, the ability to use a pozzolan at only 15% replacement for a low CaO pozzolan, as defined as less than 2-percent CaO, is being removed; meaning that when required, the minimum pozzolan content shall be 25-percent. The only exception to this for the ready mix industry is when you incorporate aggregates that have been "prequalified" by ASTM C 1260 or C 1293 testing.

Lastly, there is an on-going effort to develop a high volume supplementary cementitious material (SCM) specification. Caltrans currently allows 40%-60% slag and is working on a way to specify high volume (up to 50% replacement) fly ash mixes. There is also discussion of opening up the fly ash specification to allow Class C fly ash.

As you may have heard, one of the outcomes of pending AB 32 initiatives may be the imposing of a cement intensity factor that could possibly include incentives or penalties for a producer to meet a defined goal. A scoping document will be voted on by the Air Resources Board in November of this year that will kick off the two-year rule making process. You should write your comments to the ARB so they know of our industry's concern.

As always, continue to carefully review your specifications and SSP's since these new requirements will be appearing over the next several months. I encourage you to be active in your allied industry associations and their technical committees since all of these initiatives are being vetted through them.

Bruce Carter is the Industry Chair of the Section 90 Task Group for the Caltrans Rock Products Committee, NCA & WNV Chapter ACI Past President, and current Chair of the Chapter Technical Committee.

Fill out completely
and fax or mail by
January 16 for \$10
savings on renewals.

If you have already
submitted your 2009
application . . .

Thank You!

2009 MEMBERSHIP APPLICATION

Please Complete Fully – Thank You!

209-286-1220 Office
209-286-1430 Fax

AMERICAN CONCRETE INSTITUTE



Renew your Chapter Membership by January 16, 2009 and save \$10 over the 2009 individual rates. New membership fees are unchanged, as are our other membership types. Memberships are for the calendar year.

ACI Chapter Memberships enable us to stage events, provide communication for members such as newsletters and directories, and administer our Chapter. Financial and volunteer support benefits our activities, as has since 1958, when we became the second Chapter in ACI. Today, over 115 ACI Chapters represent an international scope of membership and programs.

Our Board of Directors and Committees are great ways to get involved in local ACI activities. If you cannot commit to regular committee or board meetings, then assist on the day of an event. Committees include: Membership & Marketing, Certification, Audit, Technical, Education, Construction Awards, Regatta, Golf Tournament, and Student Activities.

Thank you for your membership. We appreciate your involvement!

Gerard Hoppa, President 2008-2009
CalPortland Cement Company

ARE YOU PERSONALLY A NATIONAL ACI MEMBER? YES NO

A CONTRACTOR OR WORK FOR ONE? YES NO AN ENGINEER? CIVIL STRUCTURAL

IF YOU CAN SERVE ON A CHAPTER COMMITTEE, WHAT IS YOUR INTEREST? _____

TYPE OF MEMBERSHIP

- Renew before Jan 16, 2009 \$75**
- Renew after Jan 1, 2009 \$85*
- New Member \$50**
- Retired \$25
- Student \$10
- Organization Members includes ad in Membership Directory \$175

YOUR PRINCIPAL OCCUPATION

(Please check only one)

- Design Engineering
- Research Engineering
- Material Engineering
- Architecture
- Construction
- Management
- Sales & Technical Services
- Education
- Student
- Plant Engineering
- Quality Control
- Other _____

YOUR EMPLOYER'S BUSINESS ACTIVITY

(Please check all that apply)

- Architectural & Engineering Firm
- Contracting Firm
- Prestressed, Precast or Concrete Products
- Ready-Mix Concrete
- Manufacturers & Suppliers
- Research Institutes
- Utilities
- Construction Equipment & Accessories
- Testing Laboratories
- Government (U.S. Federal, State, Local)
- Government (Foreign)
- Educational Institutions
- Trade Association/Technical Societies
- Other _____

DATE _____

LAST NAME _____ FIRST _____ MIDDLE _____

YOUR PREFERRED EMAIL ADDRESS – IMPORTANT! _____

BUSINESS ADDRESS

COMPANY NAME (SCHOOL IF YOU ARE A STUDENT) _____ YOUR JOB TITLE _____

BUSINESS/SCHOOL STREET ADDRESS _____ CITY/STATE/ZIP _____

PHONE _____ FAX _____ CELL (IS THIS YOUR PREFERRED PHONE? Y/N _____)

COMPANY WEBSITE ADDRESS – WE WILL INCLUDE YOUR WEBSITE IN OUR MEMBERSHIP DIRECTORY AND UPDATES

DO YOU WANT TO PAY BY CREDIT CARD? YES NO

WE CAN EMAIL YOU A SECURE PAYMENT LINK THAT WILL PROVIDE A RECEIPT THROUGH PAYPAL.

PLEASE MAKE DUES CHECK PAYABLE TO: NCA & WNV CHAPTER ACI

Mail to Bob Lema / ACI Administration • PO Box 486 Mokelumne Hill, CA 95245 **THANK YOU!**

American Concrete Institute



Northern California
& Western Nevada Chapter

CERTIFICATION CLASS UPDATES

GO TO www.aci-ncawnv.org AND FOLLOW THE LINK TO CERTIFICATION!

Contact Certification Coordinator Liese Hironaka at 800-753-7711 for class availability.

Our Class Schedule to through Spring is posted online. Over 975 applications were submitted online in 2008.

ACI Seminars and Publications Help Keep You Current

Career and Professional Development and Training

Attend any of these seminars to learn cost-effective solutions and innovative approaches from nationally-known professionals, and also earn continuing education credit. Visit www.concrete.org for schedules of these presentations.

ACI/PCA 318-08 BUILDING CODE • SEISMIC DESIGN OF LIQUID-CONTAINING CONCRETE STRUCTURES

CONSTRUCTION OF CONCRETE SLABS ON GROUND • TROUBLESHOOTING CONCRETE CONSTRUCTION

Contact [Beth Rochette](mailto:Beth.Rochette@concrete.org) at 248.848.3814, or by Fax at 248.848.3801.

To schedule an In-house seminar, contact [Kelly Dudley](mailto:Kelly.Dudley@concrete.org) at 248.848.3709.

544.3R-08: Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete

This guide covers specifying, proportioning, mixing, placing, and finishing of fiber-reinforced concrete (FRC). Much of the current conventional concrete practice applies to FRC. The emphasis in the guide is to describe the differences between conventional concrete and FRC and how to deal with them. Sample mixture proportions are tabulated. Guidance is provided in the mixing techniques to achieve uniform mixtures, placement techniques to assure adequate consolidation, and finishing techniques to assure satisfactory surface textures. A listing of references is provided covering proportioning, properties, applications, shotcrete technology, and general information on FRC. Available in hard copy or PDF format.

To learn more or to order this document, go to [544.3R-08: Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete](#). \$43.50 (ACI members \$27.00); Order Code 544308.EM.

How to order:

Phone: 248-848-3800, and mention order code 544308.EM

Click: [544.3R-08: Guide for Specifying, Proportioning, and Production of Fiber-Reinforced Concrete](#)

Win a \$500 Gift Certificate from the American Concrete Institute

Update your account and preferences with ACI by **February 1, 2009**, and you'll be eligible to win a \$500 ACI gift certificate to use toward any products and services ACI currently offers.

1. Visit www.update.concrete.org and log in with your ACI Web site username and password. **** (Don't have a username yet? Scroll down to find out how to create one.)**
2. Update any outdated or inaccurate contact information and then click on "**Member/Customer Segmentation**" at the top of the page and update your preferences.
4. **Be sure to check the box at the bottom of the page to be entered into the drawing and then click "Submit Form."**

Bookshelf: Dr. Al-Manaseer's 4th Edition

By: M. Nadim Hassoun and Akthem Al-Manaseer This new edition helps students make the bridge from concepts to problem-solving. The Fourth Edition of *Structural Concrete: Theory and Design* brings this text fully up to date while maintaining its acclaimed easy-to-follow, logical approach. Working with the text's numerous step-by-step examples, students quickly grasp the principles and techniques of analyzing and designing reinforced and prestressed concrete elements. Moreover, the authors' emphasis on a top quality, economical approach helps students design concrete structures and members with confidence. Fully updated and revised, the Fourth Edition features: latest coverage reflecting the ACI 318-08 code; seismic design chapter incorporates the latest of the International Building Code (IBC 2006) AASHTO method for predicting concrete creep and shrinkage; new chapter dedicated to the design of curved beams SI unit examples, equivalent conversion factors from customary units to SI units, and SI unit design tables; and practical problems in each chapter enable students to apply and assess their knowledge as they advance through the text. The text's companion Web site gives students more opportunities to apply their knowledge, with such features as MS Excel spreadsheets that offer an interactive environment for evaluating different design aspects of concrete members. This text is an outgrowth of the two authors' lecture notes, reflecting more than twenty-five years of both classroom teaching and industrial experience. It is structured to cover a two-course sequence on the design of reinforced concrete structures as well as provide a comprehensive up-to-date reference for practicing engineers. (Dr. Al-Manaseer is a Chapter Past-President and a professor at SJSU.)

