



SAN DIEGO INTERNATIONAL CHAPTER INC.
AMERICAN CONCRETE INSTITUTE

**THE WHOLE
NINE YARDS**

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ACI San Diego Chapter – June 14, 2011 Program

“Using silica fume to create sustainable concretes; Improving strength of low-cement mixtures, with compliance to CALTRANS Sect. 90”

Presented by: Tony Kojundic- Director of the Silica Fume Association

Biographical sketches:

Tony Kojundic is a Director of the Silica Fume Association, and for the past 28 years, Business Manager of Elkem Materials, the largest supplier of silica fume in the world. He’s a Fellow at the American Concrete Institute (ACI), and serves on several ACI and ASTM technical committees. Tony’s also a member of the Transportation Research Board, The National Concrete Bridge Council and the Concrete Industry’s Joint Sustainable Initiative. Through a cooperative agreement between the SFA and the FHWA, Tony’s been active in transferring HPC technology to state DOTs, as well as directing other SFA technical programs.

Outline:

How do you increase the strength of concrete? How do you meet the demands of construction and comply with the new CALTRANS Sect. 90 that requires the use of SCMs to produce concretes with a lower CO2 foot-print? Attendees to the June 14th ACI meeting will learn the answers, and much more. This presentation is focused on the increasing use of SCMs in today’s sustainable concrete construction. Silica fume has been used for many years to improve concrete performance, but was seldom used as a cement replacement. Today’s sustainable concrete proportions requires low cement contents, and the use of larger amounts of SCMs, such as fly ash and slag. These SCMs are slow to produce strength and can compromise performance and affect construction practices. Silica fume, a 100% pre-consumer waste material as defined by LEED, is being used in ternary cementitious mixtures to make-up for early strength losses that results from using large amounts of other SCMs, without comprising performance.

The presentation will show how the new CALTRANS Sect 90 requirements as well as other LEED oriented specifications can be met while maintaining and/or improving construction schedules.



ACI San Diego Chapter – June 14, 2011 Program

“Using silica fume to create sustainable concretes; Improving strength of low-cement mixtures, with compliance to CALTRANS Sect. 90”

Presented by: Tony Kojundic- Director of the Silica Fume Association

Place: Handlery Hotel 950 Hotel Circle North, San Diego, CA 92108 619-298-0511

Directions: Please visit: http://www.handlery.com/sd/

Cost: Member - \$40.00 Non-Member - \$45.00 Walk-in Member or Non-Member - \$45.00
Student ACI Member - \$5.00 Student Non-ACI Member - \$10.00

Vendor Tables (6' table) \$50.00 – Members \$100.00 – Non-Members
All vendor prices include one person’s entry fee

Time: Registration 11:30 AM-12:00 PM
Lunch & Presentation 12:00 PM-1:00 PM

Reservation: MUST be received by Friday June 3, 2011
Heather at: Phone - 619.579.1940; Email – concreteaci@cox.net; Fax – 619.258.5839

PAYMENT MUST BE RECEIVED TO CONFIRM RESERVATION!!!!!!
Mail to: ACI, San Diego P.O. Box 713110 Santee, CA 92072

“Using silica fume to create sustainable concretes; Improving strength of low-cement mixtures, with compliance to CALTRANS Sect. 90” June 14, 2011

Print Name of all Attendees: _____

Phone _____ E-mail Required _____

Reservation Quantity Members _____ Reservation Quantity Non-Members _____ Vendor Member _____ Vendor Non-Member _____

PAYMENT INFORMATION REQUIRED

_____ Check (payable to San Diego-International Chapter)

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Cancellation: Heather 619/579-1940 - Please CANCEL your reservation(s) at least 24 hours in advance if you are UNABLE to attend. NO SHOWS WILL BE INVOICED.



ACI SAN DIEGO CHAPTER MESSAGE

If you didn't make it to our April event at TB Penick & Sons you missed out on an amazing display of what you can do with concrete. Special thanks to TB Penick & Sons, Morley Construction, United Rentals, and the vendor partners who made this event a home run.

This will be my final message as President of our great chapter. I remember when I first got involved in this group as a very green twenty year old working for Superior Ready Mix. Quinn McGuire, Mike Serra, and Jeff Ferris were all instrumental in getting me involved with ACI. I can't thank them enough for exposing me to an organization that helped me grow both personally and professionally.

I am proud to say that I leave the chapter in the very capable hands of your new Chapter President Mike Archibald of Morley Construction. Mike is an extremely passionate "concrete guy" who will continue to promote and grow our local chapter.

In closing I want to thank Heather Caya and our board members who give you everything they have to keep spreading the concrete gospel in San Diego.

I look forward to seeing you real soon at a future ACI San Diego event!

Respectfully,

Charlie Gregg
2010-2011 President

SAN DIEGO CHAPTER 2011 PROGRAMS

- June 14, 2011 "Using silica fume to create sustainable concretes; Improving strength of low-cement mixtures, with compliance to CALTRANS Sect. 90"
- July 28, 2011 Seau's FREE Networking Event
- August Dark
- September TBD
- October 17, 2011 Annual Golf Tournament

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ACI PUBLICATIONS

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

Bob Harris' Guide to Stamped Concrete

This guide teaches contractors the skills necessary to produce quality stamped concrete, but also shares Harris' professional knowledge of taking stamping to new levels of originality. From incorporating architectural finishes into the stamping design to blending a multitude of colors that mimic natural materials, this guide provides an in-depth account of how to go from ordinary to extraordinary with stamped concrete.

\$45.00; Order Code: GSC.EM. ACI does not offer discounts on industry publications.

Special Slab Combination Package

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); and *Guide to Design of Slabs on Ground* (ACI 360R-10). **Price: \$199.50 (ACI members \$119.00). Hard Copy.**

302.1R-04: Guide for Concrete Floor and Slab Construction, published 2004

Learn how to produce high-quality concrete slabs-on-ground and suspended floors for various classes of service. This guide contains recommendations for controlling random cracking and edge curling caused by the concrete's normal volume change. Additionally, this guide emphasizes aspects of construction such as site preparation, concreting materials, concrete mixture proportions, concreting workmanship, joint construction, load transfer across joints, form stripping procedures, finishing methods, and curing. Flatness/ levelness requirements and measurements are also outlined. \$105.50 (ACI members \$64.00). Order Code: 302104.EM.

302.2R-06: Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Material, published 2006

This guide contains materials, design, and construction recommendations for concrete slabs-on-ground and suspended slabs that are to receive moisture-sensitive flooring materials. These flooring materials include sheet rubber, epoxy coatings, vinyl composition tile, sheet vinyl, carpet, athletic flooring, laminates, and hardwood. Chapters 1 through 8 provide an understanding of concrete moisture behavior and drying, and show how recommended construction practices can contribute to the successful performance of floor covering materials. This background provides a basis for the recommendations in Chapter 9 to improve performance of floor covering materials in contact with concrete moisture and alkalinity. \$70.50 (ACI members \$42.00). Order Code: 302206.EM

360R-10: Guide to Design of Slabs on Ground, published 2010

This document presents information on the design of slabs-on-ground—primarily industrial floors. The report addresses the planning, design, and detailing of slabs. Background information on design theories is followed by discussion of the types of slabs, soil-support systems, loadings, and jointing. Design methods are given for unreinforced concrete, reinforced concrete, shrinkage-compensating concrete, post-tensioned concrete, fiber-reinforced concrete slabs-on-ground, and slabs-on-ground in refrigerated buildings, followed by information on shrinkage and curling problems. Advantages and disadvantages of each of these slab designs are provided, including the ability of some slab designs to minimize cracking and curling more than others. Design examples appear in an appendix. \$87.50 (ACI members \$53.00).

Order Code: 36010.EM.

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DATES ARE NOW POSTED ON OUR
WEBSITE FOR 2011**

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ACI San Diego Chapter – July 28, 2011 Program

“ACI San Diego Social Event”



Come join us in complementary food and drinks. Enjoy baseball while networking with friends in the concrete industry. This event will be a great time to advertise your business, and for students a great way to introduce yourselves to the industry. Please note that although the event is FREE you MUST make reservations.

If you or your company would like to be a sponsor for this program please send in your company logo to Heather Caya at concreteaci@cox.net by July 8, 2011.

Place: Seau’s Restaurant (1640 Camino Del Rio North, #1376, San Diego CA 92108, 619-291-7328)

Directions: Highway 8 east or west exit toward Mission Center Rd/Auto Circle, turn right at Camino del Rio North

Cost: Member - FREE Non-Member - FREE
Student ACI Member - FREE Student Non-ACI Member - FREE

Time: Social Event 4:30 PM – 7:00PM

Reservation: MUST be received by Friday July 8, 2011
Heather at: Phone - 619.579.1940; Email – concreteaci@cox.net; Fax – 619.258.5839

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“Social Event” July 28, 2011

Print Name of all Attendees: _____

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ACI AWARDS DINNER PICTURES

It was a beautiful day in Pacific Beach!



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