

SEP '03



STAMPED IN CONCRETE

Newsletter of the American Concrete Institute, Inc., Northern California & Western Nevada Chapter, Inc.

2003-2004

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Newsletter

SEPT. 9: GET READY TO PLAY BALL!

Tuesday: September 9, 2003

Location: Spenger's Fish Grotto • 1919 Fourth St. • Berkeley

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

Menu: Choice of Grilled Salmon or Roast Sirloin of Beef

Price: \$35.00 per person

Reservations: Please select your entree and make your reservations by Thursday, September 4, at Noon. But before you forget – call 800/753-7711 or e-mail your reservations to tallured@goldrush.com ASAP – Thank you!!!

Program: Clark Construction Co. is building a new ballpark for the San Diego Padres, and Carlos Gonzales of Clark will describe this outstanding project.

Program: 'Building a New Ballpark in San Diego'

Carlos Gonzales of Clark Construction Co., one of America's most recognized construction firms, will trace the process of building the new ballpark in San Diego that will be ready for opening day in 2004.

The structure that will replace Qualcomm Park as the home of the San Diego Padres brings together fan-friendly features as well as innovative design and construction approaches.

Over 60,000 cubic yards of concrete have been placed for the 46,000 seat stadium.



Make your dinner reservations as soon as possible, since this newsletter was sent out early to make sure you knew about our wonderful upcoming Regatta!

Royce Rhoads Has Bypass Surgery

As we were going to press, Royce Rhoads underwent multiple bypass surgery. Our thoughts are with him for a speedy and full recovery.

President's Message: *Thank You -- and Let's Go!*

It's truly an honor that this Chapter has the confidence in my character to give me the privilege of serving as 2003-2004 President. For that, I thank you.

Now let's get going!

As I start my limited term as Chapter President, my attention will be divided between the Committee Chairs:

Fall 2004 Convention Co-Chairs Dean Browning and Bruce Carter. Thirteen months from now, one of ACI's most impressive conventions will take place. Please contact Bruce or Dean to take part in ACI history at our Fall '04 Convention in San Francisco.

Membership Chair Doug Yeggy. Membership is the life blood of the Chapter. Doug, thank you - it will be a privilege working with you.

Student Activities Chair Akthem Al-Manaseer will again be looking for sponsors to get a few San Jose State students to Boston this fall. This will give our Student Chapter a good kick-start and primed for the 2004 Convention. I am looking forward to working with Akthem.

Last but certainly not least, I welcome Tom Carter, new Vice President and Program Chair. Tom will be scouting great programs for our dinner meetings. What can I say about Tom? Glad to have him as V.P. - and what a hoot. Thank you Tom, I look forward to working with you.

Again, thank you for your confidence, and for the opportunities this coming year holds in store. I look forward to working with all the new Board and Committee Chairs. ***It's going to be a great year.***

Sincerely,

Baker

Dave Baker, President

TECH: Conventional Retarders vs Hydration Control Admixtures

by Stephen T. Kallman, Master Builders, Inc., Sales Specialist

Ok! It's summer, it's hot out, and your contractors are asking for a retarder in the concrete. You most likely stock either a conventional retarding admixture, or you may stock a "Hydration Control" admixture.

Which is the best to use? First, we need to understand a few things about each product that make them different from each other.

The conventional retarders that have been available for many years are derivatives of either lignin sulfonates, or derivatives of Corn Syrups. The Hydration Control admixtures are scientifically formulated chemicals. Each works differently with the cement chemistries. There are three primary components of cement that determine set time, early strength development, and ultimate strength development. Conventional retarders work with two of these components of the cement to control early set characteristics and early strength development. These products, when used within their recommended dosage ranges, will retard the set of the concrete from 1/2 to 1 1/2 hours. They may also have some negative effects on the early age strengths of the concrete, 3-7 days. However, ultimate 28 day strengths are generally higher. The problem with these older type of retarding admixtures, if dosed higher than recommended rates, can result in extended set times that can cause problems and can become hard to control.

Hydration Control admixtures, however, work with all of the cement chemistries by "coating" the particles and not allowing them to begin the hydration process. Based on temperature conditions, length of retardation required, travel time, and placement conditions, these admixtures can be dosed to provide "controlled" set time characteristics. Most manufacturers have worked with their producer customers to determine the proper dosage for the various conditions. These admixtures can be used to "Stabilize" concrete for a pre-determined period of time. Once the "coating" on the cement particles has worn off, the concrete will take on its' normal set time characteristics, and will develop strengths at a normal rate. This allows for excellent early strength development and higher ultimate strengths, because all of the cement chemistry is reacting at the most effective rate. These products may cost a little more to use, but can provide a benefit for both the producer and the end user by providing the proper amount, or time of retardation needed, whether it be 1-hour, 2-hours, 4-hours, or more.

Some things that are important to consider when using any retarding admixture. If the mix design currently contains a basic Type-A Water Reducer, you may want to consider removing it from the mix and use the retarder as your water

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THE AMERICAN CONCRETE INSTITUTE
Northern California and Western Nevada Chapter

CERTIFICATION COMMITTEE SCHEDULE for FIELD TECH 1 TRAINING IN 2003

AUG. 9/16	CARSON CITY (NDOT) <i>SOLD OUT</i>
SEPT. 6/13	SUNOL (MISSION VALLEY ROCK) <i>SOLD OUT</i>
OCT. 4/11	SACRAMENTO (TEICHERT)
OCT. 18/15	STOCKTON (TEICHERT)
NOV. 8/15	SAN RAMON (RMC)

APPLICATION FOR GRADE 1 FIELD TESTING TECHNICIAN CERTIFICATION, 2003

Name: _____	Session Date: _____
Company: _____	Session Location: _____
Address: _____	Indicate Course:
_____	_____ Two-day Course \$255.00
_____	_____ Recertification \$255.00
Telephone: (Day) _____	_____ Retest \$155.00
(Eve) _____	_____ Concrete Strength Testing
Fax: _____	_____ Exam Only \$275.00
	_____ Lab. Tech. Grade 1
	_____ Exam Only \$400.00

Total Fee Enclosed: \$ _____

- Applicants must be able to lift 50 lbs. •

Class and test time typically 8 am to 4 pm
 Dress appropriately for concrete testing.

Concrete Strength Testing and
 Certified Laboratory Technician exams
 will be available depending on demand.

When your check is received,
 your place in the class will be reserved.
 You will then be notified of the
 confirmation of your reservation and
 the class schedule.

Notice:

**Fees for “no shows” are forfeited and are NOT REFUNDABLE
 without five-day notice prior to the session date.**

Make checks payable to:

Northern California & Western Nevada Chapter, ACI

**Mail checks &
 make inquiries to:**

Ted Allured
 444 Oak Place
 San Andreas, CA 95249

Phone: 800-753-7711
 Fax: 209-754-1559
 tallured@goldrush.com

ADDRESS CORRECTION REQUESTED



444 Oak Place
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Northern California & Western Nevada Chapter

TECH: Conventional Retarders vs Hydration Control Admixtures

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reducer. Most of your basic Type-A Water Reducers will impart some retarding characteristics, at their higher dosage rates, and if combined with a retarding admixture, may provide differing results. Most all retarding admixtures will provide the same amount of water reduction provided by the Type-A admixture, and can be used as a substitute. Hydration Control admixtures are compatible with the new Mid-Range Plasticizers, High-Range Plasticizers, and the new Polycarboxilate admixtures that provide higher water reduction & increased workability.

Tips to remember when using any retarder --

- Follow Manufactures Dosage Rates & Batching Procedures
- Retard Concrete only as long as necessary to facilitate placement conditions
- Use and “Evaporation Retarder”, such as Confilm, to keep the surface from “drying out” too fast
- Use Fibers in Flat Work concrete to help control early age plastic shrinkage cracking.
- Don't overwork the surface and avoid adding extra water.
- Follow All Proper Concrete Curing Procedures.

Consult you local producer specialist to determine which retarder is best for your application.