

FEB '02



STAMPED IN CONCRETE

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

2001-2002

ROYCE J. RHOADS

President

Synthetic Industries, Inc.
1320 Standiford Ave. #4-105
Modesto, CA 95350
209-523-3407
royce_rhoads@sind.com

W. J. "MAC" McCLELLAND

Vice-President

Master Builders, Inc.
11325 Sunrise Gold Circle #C
Rancho Cordova, CA 95742
800/992-9950
wmccllland@mbt.com

CALVIN R. CANNON

Past President

TED ALLURED

Executive Manager

444 Oak Place
San Andreas, CA 95249
800-753-7711
209-754-1559 fax
tallured@goldrush.com

ACI Chapter

www.aci-ncawnv.org

ACI International

www.aci-int.org

Directors

DEAN BROWNING

PETE CONLIN

DAVE BAKER

TOM L. CARTER

JOHN S. COMPOGINIS

ROSS ESFANDIARI

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National /Chapter Liaison

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Student Activities

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Technical

JOHN S. COMPOGINIS

Newsletter

February 12th ACI Chapter Meeting

Tuesday: February 12, 2002

Location: Spenger's Fish Grotto • 1919 Fourth Street • Berkeley

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

Price: \$30.00 per person

Menu: Choice of Roast Sirloin of Beef Served Au Jus
or Parmesan Petrale Sole with Lemon Caper Butter

Reservations: *Call in your reservations with choice of entree to the Chapter Office at 1-800-753-7711 by Friday, February 8th.*

Program: BART's Future Plans for Expansion

Malcolm Quint, Manger of Long Range Planning for the Bay Area Rapid Transit System, and a long-time BART employee, will provide ACI February Meeting attendees with an inside look at "BART's Future Plans for Expansion."

Malcolm Quint will cover the status of the proposed extensions to Warm Springs, San Jose, Antioch and Livermore, and of course answer questions from our group.

BART's Long Range Planning Division is responsible for assessing strategic opportunities for system expansion. This includes conducting corridor studies for future BART service, analyzing opportunities for new stations on the existing system (infill stations), and assessing alternative methods for expanding transit service in the Bay Area.

February 2002 Newsletter Quiz: Aggregate Passing Through in Fine Condition?

Fine grades of aggregate are those which pass through a --

- a.) 3/8" sieve
- b.) 1/4" sieve
- c.) 1/2" sieve
- d.) any particle less than 0.19 inch (4.75 mm)

Answer to Last Month's Quiz:

The primary difference between high-strength concrete and normal-strength concrete is the compressive strength (that refers to the maximum resistance of a concrete sample to applied pressure.)

President's Message: Effective Change in Challenging Times

The New Year brings both excitement and caution. Excitement coming from the anticipation of what challenges lie ahead of us and caution from the tragedy of September 11, the memories of Loma Prieta and Riverside earthquakes and the on-going War on Terrorism.

The things that will stay the same, as the ole saying goes, "There is nothing in life for sure except for dying, paying taxes and that concrete will get hard and crack."

These things may be a certainty but they can be changed. Life can be lengthened by the way you take care of yourself. Taxes can be reduced by the number of deductions you accumulate. Although concrete may crack, the amount of time we spend educating the end-user (contractors) about our product, the more concrete will be used in our industry.

Your ACI Chapter and Organization is committed to the education of the concrete industry. For years we have talked about jointing, curing and W/C+cm Ratio, but most of the time this talk been used to explain problems associated with concrete construction.

In 2002, let us start something new in our industry. Let us take our education and knowledge to the field and be proactive to explain the natural characteristics of concrete when the mix design is abused or proper concreting practices are not followed.

Our chapter has scheduled two educational seminars (at the time of this writing) this year. On April 11, we have scheduled "Troubleshooting Concrete Construction" and on May 22 & 23, we have the "318 Code Review".

For these seminars to be effective, we must attend and put this information into everyday practice.

My Best to You All,

Sincerely,


Royce J. Rhoads, President

Tech Tip: The Effect of Cold Weather on Concrete Performance

Setting Times:

Although we experience reasonably mild winters as compared to other parts of the country. We can expect concrete temperatures to range from 85° F in the summer to 55° F in the winter. Below is a typical relationship between temperature and setting times:

Concrete Temperature	Setting Time
90°	3 Hrs.
80°	4 Hrs.
70°	6 Hrs.
60°	9 Hrs.
50°	13 Hrs.

These times are in general and will change depending on the concrete mix used.

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THE AMERICAN CONCRETE INSTITUTE
Northern California and Western Nevada Chapter

CERTIFICATION COMMITTEE SCHEDULE for FIELD TECH 1 TRAINING

JAN. 26/FEB. 2	SAN LUIS OBISPO (<i>SOLD OUT</i>)	MAY 11/18	SUNOL (MISSION VALLEY ROCK)
FEB. 2/9	SAN JOSE (<i>SOLD OUT</i>)	JUNE 8/15	PETALUMA AREA
FEB. 23/MAR. 2	SANTA ROSA AREA (<i>SOLD OUT</i>)	JULY 13/20	SAN RAMON (RMC PACIFIC MAT.)
MAR. 2/9	FRESNO AREA	JULY 27/AUG. 3	AROMAS (GRANITE ROCK)
MAR. 9/16	SAN RAMON (RMC PACIFIC MAT.)	AUG. 17/24	RENO AREA
MAR. 23/30	BAKERSFIELD AREA	SEPT. 7/14	SACRAMENTO (TEICHERT)
APR. 6/13	REDDING (CALAVERAS CEMENT)	OCT. 12/19	STOCKTON (TEICHERT)
APR. 27/MAY 4	RENO AREA	NOV. 9/16	SAN RAMON (RMC PACIFIC)

APPLICATION FOR GRADE 1 FIELD TESTING TECHNICIAN CERTIFICATION, 2002

Name: _____	Session Date: _____
Company: _____	Session Location: _____
Address: _____	Indicate Course:
_____	_____ Two-day Course \$255.00
Telephone: (Day) _____	_____ Recertification \$255.00
(Eve) _____	_____ Retest \$155.00
Fax: _____	_____ Concrete Strength Testing
	_____ 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 8am to 4pm
 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 Phone: 800- 753-7711
 444 Oak Place Fax: 209-754-1559
 San Andreas, CA 95249

ADDRESS CORRECTION REQUESTED



San Andreas, CA 95249
444 Oak Place

Northern California & Western Nevada Chapter

Tech Tip: The Effect of Cold Weather on Concrete Performance

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Lower Early Strengths:

Concrete will experience lower early strengths when concrete temperature falls below 70° F. The results below are an example of the possible magnitude of such changes.

<u>Concrete Temperature</u>	<u>Strength @3 Days</u>
70°	2700 PSI
60°	2150 PSI
50°	1600 PSI

A drop of 500 to 600 PSI in early strength should be anticipated when concrete temperatures fall 10° to 15° F. These strengths are in general and will change depending on the concrete mix used.

Submitted by: Rick Hyden, Technical Committee