



CONCRETE

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

2001-2002

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Newsletter

November 2001 ACI Chapter Meeting

- Tuesday:** November 13, 2001
- Location:** El Dorado Hotel, Reno, Nevada
- Social Hour:** 6:00 p.m. • Dinner: 7:00 p.m. • Program: 8:00 p.m.
- Price:** \$30.00 per person
- Menu:** Your Choice for Dinner is Chicken Romano
- Reservations:** *Reservations are a must! Please make your reservations with the Chapter Office (800) 753-7711 by Friday, November 9th.*
- Program:** *Troy Martin -- "The Galena Creek Bridge and the I-580 Extension"*
- Board Meeting:** November 13, 2001, 3:30 p.m. • Mac McClelland's Suite

Program: The Galena Creek Bridge & I-580 Extension

Troy Martin, Principal Bridge Engineer for Nevada Dept. of Transportation, will speak about "The Galena Creek Bridge and the I-580 Extension". Martin will discuss how the Reno area's dramatic growth has spurred development of a highway system that incorporates sophisticated techniques for dealing with construction challenges.

Troy Martin's major projects include: I-580 Extension, Carson City Freeway, Cheyenne Avenue/I-15 Interchange Reconstruction, and the I-80/US395 Interchange Seismic Retrofit.

Reno's Concrete Expo Set for February 6

Save this date! The Sierra Nevada Concrete Association is presenting their 3rd Annual Concrete Expo in Reno, NV. on Feb. 6, 2002. *More information will be in future ACI chapter newsletters.*

20th Angel Island Regatta Honors September 11 Victims

Our annual Concrete Industry Island Regatta was held Saturday, October 6, at Angel Island. It was a small turnout this year, about 30 people, but another great day in Regatta memory. The weather was a little cool but clear all day, and the Bay did warm up later on. We normally schedule the regatta to coincide with Fleet Week and the Blue Angels, but it was canceled this year for security reasons. We dedicated this year's program in memory to those lost in the terrorist attacks of September 11. Each Regatta cap came complete

President's Message: Coping with the Challenges of a Downturn

Today as we watch television, read the newspaper and listen to the radio, we learn about our business environment taking an economic downturn.

So, how do we cope? Do we turn inward and retreat or do we stay positive and advance our business plan?

Businesses today are being forced to change because of shrinking profit margins. It is up to the individual or business to decide which side of change they want to be on, the leading edge or the trailing edge. During an economic slowdown, companies that fight change will be the first to shut down or the individual that fights change will be the first to go out the door.

With today's changing technology, an individual must be willing to abandon old skills and learn new ones. The individual who fights change wishes to maintain their comfort zone and keep their familiar surroundings. They have learned a professional skill and want to ride that skill until they retire. The people who embrace change are independent thinkers who seek new opportunities, which are a result of change. These types of people will be the new front-line worker that is in a continuous learning mode. They utilize self-motivation projects, which is continuous learning in a natural learning (on the job) environment.

People who survive an economic downturn embrace challenges and are willing to support change that will get the job done efficiently. ***They depend on Motivation!***

There are seven (7) rules of Motivation:

1. Set a major goal, but follow a path.
2. Finish what you start.
3. Socialize with others with similar interest.
4. Learn how to learn.
5. Harmonize natural talent with interest that motivate.
6. Increase knowledge of subjects that inspire.
7. Take risk.

Our ACI Chapter allows all of us, professionals in concrete, to utilize these motivational rules. Attending Chapter Meetings and Chapter Functions, getting involved in Chapter Committee Meetings and attending ACI Seminars, in our area, that interest you.

Take advantage of these opportunities to increase your knowledge and keep that burning desire to learn activated. Being the best we can be in this ever changing industry will keep us on the "Front-Line".

Best Regards to all of you.

Sincerely,



Royce J. Rhoads, President

November's Newsletter Quiz -- Who Tilted First and When?

Who developed the first tilt-up concrete methods and when?*

- A. ___ Frank Lloyd Wright in 1925
- B. ___ Irving J. Gill in 1916
- C. ___ Robert H. Aiken in 1907
- D. ___ Thomas Alva Edison in 1889

**** Answer in next month's Newsletter. If you have a tech trivia question, submit it!***



20th Angel Island Regatta Thank-You's

Continued from ❶

with an American flag pin. There was the usual assortment of delicious food and thirst-quenching beverages. It was another wonderful event! I hope more of you will join in the festivities next year.

A special thanks, as usual, goes to Mac McClelland (*Master Builders*) the head chef and the mastermind behind the diverse menu of sausage, pork roast, sirloin tip, chicken, and corn. Also thanks to Burt Lockwood, Craig Reinhardt, Julie Reinhardt and my wife, Michelle, for their help as assistant chefs and servers. And, a big thanks to the many others who also lent a hand to the *effort*.

It wouldn't be a Regatta without the boats and crew that got us there. Thanks to the following boats and skippers:

Angel Island Ferry — credited with the most riders

Leda — Cliff & Michelle Craig & crew

Nauty Girl — Mac McClelland & crew

Michi — Rick Bauml & Patty & crew

It is wonderful to see so many "regulars" return every year, although, we would like to see more people enjoy this event.

I think the recent tragedies in New York and Washington, DC took a little wind out of our sails, and a lot of people just stayed close to home. We can certainly understand, but next year we hope to break the record of attendance (90) to start the next 20 years. We trust all the boats and those aboard enjoyed the nice day and fair seas offered by the Bay for the Regatta.

This year we had **nine** sponsors from industry that contributed to the Regatta. This provided everyone with polo shirts (blue this year) embroidered with the Regatta logo, 20th anniversary, and the names of the sponsors on the sleeve. A special thanks to these generous firms:

A. Teichert & Sons, Inc.

California Cement Promotion Council

Central Concrete Supply Co.

Dynamic Consultants, Inc.

Hansen Aggregates

Mid-Pacific, Inc.

Mission Valley Rock Co.

Northern California and Western Nevada Chapter of ACI RMC Pacific Materials

Shamrock Materials, Inc.

The caps and shirts were supplied through Julie Reinhardt with Jack Nadel Inc. and really looked terrific. They continue to be collector's items in the concrete community. The shirts are so popular now, some people send checks even if they can't attend just to get one. The Regatta is worth the price just for the cap and shirt, but the greatest value is in the strong friendships that are developed during this fun event.

Last but not least, a big thanks to the Regatta Committee for all their help and support.

Clifford & Michelle Craig — Dynamic Consultants, Inc.

Burt Lockwood — Shamrock Materials

Mac McClelland — Master Builders

Carl Sundquist — Sundquist Engineering

Julie Reinhardt — Jack Nadel Inc.

We hope you can plan on attending next year and join in all the fun. Bring a boatload or just yourself and have a BBB (Boating Barbecue on the Bay). See you there! — Cliff Craig



Tech Tip: Two Dozen Steps To Successful Floors

Setting up, pouring and finishing a concrete floor doesn't just happen. It takes some careful planning. And the more complicated the floor, the more planning. Factory and warehouse floors with high F numbers, sheet reinforcing and toppings are a good example.

The following 24 steps to pouring successful floors are excerpted with permission from the January 2000 edition of "Concrete International", the magazine of the American Concrete Institute.

1. Conduct a preconstruction meeting to set up a well-executed installation and placement plan for slab-on-grade.
2. Facilitate on-site communication between suppliers and contractors with continuous site visits by the consultants and the Inspection/testing service.
3. Select an experienced flooring contractor with a proven SFRC floor construction record.
4. Require adherence to specified tolerances and reject defective products.
5. Reduce cost without compromising quality and safety by improving the construction schedule.
6. Insist on a clean work site with well-organized storage areas.
7. Retain trained and responsive supervisors and coordinators and insist on field supervision by the general contractor.
8. Coordinate on-time delivery of materials.
9. Review joint details, placement size, and sequence of activities prior to scheduling each Placement Correct interferences and resolve site constraints before placing concrete.
10. Optimize the concrete mixture on a quantitative basis to improve construction productivity as well as reduce cost. Use 1 1/2" (40mm) maximum coarse aggregate size and 50-to-50 ratio of 1 1/2" and 3/8" (10mm) blend of coarse aggregates.
11. Strive to obtain a consistent water-cementitious materials ratio (w/cm) of 0.45 plus or minus 0.02.
12. Attempt to keep cement content consistent to reduce further adjustment to sand proportions.
13. Achieve surface durability using trap rock, liquid sealer/hardener.
14. Use SFRC to achieve higher concrete tensile strength, toughness and ductility.
15. Use the pinwheel contraction joint pattern to isolate columns and control irregular shrinkage cracks.
16. Design fewer construction joints to reduce construction costs and to control curling at joints.
17. Use a 1/2" (13mm) choker coarse lime screening as a slip-sheet between the slab-on-grade and the subgrade.
18. Design using compactable granular sub-grade material and appropriate thickness.
19. Use 4000 psi (30 Mpa) concrete with minimum cement content of 560 lb/yd³ (330kg/m³), a 6-bag mix.
20. Do not use fly ash in lieu of portland cement content in floor slab application.
21. Maintain a smooth, well-graded and compacted subgrade and subbase surface.
22. Allow sufficient mixing time between high-range, water-reducing admixture and steel fiber.
23. Use a Laser Screed to obtain a flat and fiber-free surface, reduce number of placements, and place larger areas.
24. Insist on skilled operators and tradesmen utilizing new tools, and maintained equipment.



THE AMERICAN CONCRETE INSTITUTE
Northern California and Western Nevada Chapter

CERTIFICATION COMMITTEE SCHEDULE for FIELD TECH 1 TRAINING

NOV. 10/17	SAN RAMON (<i>SOLD OUT</i>)	FEB. 21/MAR. 2	SANTA ROSA AREA
DEC. 1/8	RENO (To be announced) (<i>SOLD OUT</i>)	MAR. 9/16	SAN RAMON (RMC PACIFIC MAT.)
NOV.	SAN LUIS OBISPO (To be announced)	APR. 6/13	REDDING (CALAVERAS CEMENT)
2002 DATES & LOCATIONS			
JAN. 19/26	SACRAMENTO (TEICHERT) (<i>SOLD OUT</i>)	MAY 11/18	SUNOL (MISSION VALLEY ROCK)
FEB. 2/9	SAN JOSE (To be announced)	JUNE 8/15	PETALUMA AREA
		JULY 13/20	SAN RAMON (RMC PACIFIC MAT.)

APPLICATION for GRADE 1 FIELD TESTING TECHNICIAN CERTIFICATION, 2001

Name: _____ Session Date: _____

Company: _____ Session Location: _____

Address: _____ Indicate Course:

_____ Two-day Course \$255.00

_____ Recertification \$255.00

_____ Retest \$155.00

_____ Concrete Strength Testing

_____ Exam Only \$275.00

Telephone: (Day) _____

(Eve) _____

Fax: _____

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.

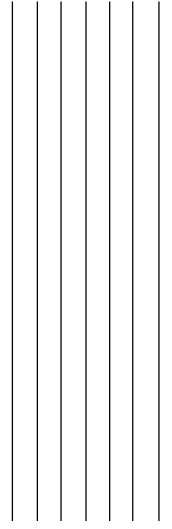
When your check is received,
 your place in the class will be reserved.
 You will then be notified of the
 confirmation of your reservation and
 the class schedule.

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

November 13 Meeting at the El Dorado in Reno!



ADDRESS CORRECTION REQUESTED



444 Oak Place
San Andreas, CA 95249

Northern California & Western Nevada Chapter

E-mail Meeting Notices

We have instituted an E-mail notification in addition to the newsletter's coverage of the meeting.

If you have changed your E-mail address since you submitted the information to the chapter, or have not supplied it yet, please let us know by E-mailing **Ted Allured** tallured@goldrush.com

ACI Websites - Local (www.aci-ncawnv.org) International (www.aci-int.org)

If you have not visited our local Chapter's website, you are missing out. There is an amazing amount of information available. ACI International's website also provides a variety of important information.

ACI Scholarships Available for High School & College Students

Our scholarships are available to all ACI Chapter members' families. Eligible students include High School graduates who are going on to college and those who are graduating from a Jr. or Community College and going on to a four-year school. Currently enrolled college students are also eligible. *Contact our Executive Manager Ted Allured at 800-753-7711 for more information.*