



STAMPED IN CONCRETE

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

2003-2004

DAVID M. BAKER

President
George Reed, Co.
P.O. Box 548
Sonora, CA 95370
209-768-6802

TOM CARTER

Vice President
Teichert Aggregates
Box 15002
Sacramento, CA 95851
916-386-6979

W.J. "MAC" McCLELLAND

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

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ROSS ESFANDIARI
MICHELLE CRAIG
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Newsletter

January 6 - ACI/SEAONC Joint Meeting

Tuesday: *January 6, 2004 - The FIRST Tuesday This Month!*

Location: *City Club • 155 Sansome Street • 10th Floor
San Francisco*

Social Hour: *5:30 p.m. • Dinner: 6:30 p.m. • Program: 7:30 p.m.*

Price: *\$34.00 per person before deadline, \$39.00 after.*

*Non-ACI or SEAONC Members are \$39.00 before,
\$44.00 after the deadline.*

Reservations: *Due to the Holidays, Deadline is Noon, December 30!*

Reservations are limited to 180 attendees. Call today!

*RSVP by email seaonc@ix.netcom.com or fax
to 415/764-4915 or phone 415/974-5147. Make check
payable to SEAONC and bring with you to the door
on January 6th. No-shows will be invoiced.*

Program: *Tall Concrete Buildings: State of the Art Design*

Board Meeting: *January 6 • 1:00 p.m. at Hanson Aggregates*

Tall Concrete Buildings: State of the Art Design

Presented by Ron Klemencic of Mangusson Klemencic Associates



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The striking 73-story Highcliff Apartments in Hong Kong were completed in 2002.

President's Message: 2003 - The Ultimate Game of Chess

It was the last place anyone would want to take 15 mixers. Buried in a cloud at 3000 ft on a drizzly December afternoon, the ground disappeared around the trucks in a weird detachment of time and space. We slid our way down the narrow road uncertain if we could make it. Slowly, the 50 day calamity called the Hetch Hetchy/Priest Reservoir Bypass came into view. So far, our first move in today's game of Chess was good.

Our next move called for backing the entire fleet a quarter of a mile down an 11 percent slope coated with mother natures version of bar and chain oil. Every move in in the heavy fog translated into shear white knuckle terror for a dedicated crew of mixer drivers.

Then it was Murphy's turn. Eager to block our advancing moves, Murph moved his leading chess piece and dropped a D-10 in our path with a thrown track.

Check.

We countered with an aggressive move of blades, bulldozers and hoes, outflanking our opponent with a temporary road. With 15 loads of potential heartache on the verge of rejection we continued our fancy chessboard moves in a desperate attempt to keep Murphy and his Law from gaining the upper hand.

Then, as sudden as it began, the game was over. Accelerated mud began to flow to the pump and we proudly called Checkmate. Poor 'ol Murph was left to call "No Joy", choosing instead to leave the job, hoping to fight another day in this game of chess we call Construction.

The year of 2003 resembled yet another high stakes game of chess for the Ready-Mix industry. But in our construction world the stakes involved more than just concrete. For example Sen. John Burton's SB 800 made suppliers responsible for causes of action related to poorly defined concepts of law.

Then the industry had to cope with the volatility of fuel prices, the politics of fly ash and the fantasy world of the California State Legislature. As if that wasn't enough, our dedicated members also had to contend with the growing scarcity of virgin materials, the out-of-touch world of workers compensation, and the latest top ten list of insects to make the Endangered Species Act.

And just when it seemed there could be no more surprises, material suppliers faced a tripling of vehicle license fees, a free-for-all down at the DMV, and a genuine shoot-out over the state budget collapse

Welcome to our world of Construction. Where life resembles a high stakes game of chess and chance. And welcome to 2004. It looks like another awesome and unpredictable year for the Ready Mix industry and a fantastic year for the American Concrete Institute.

Your move.

Sincerely,



Dave Baker, President

Cold Weather's Effects on Concrete Test Cylinders

As the winter months approach, we need to be aware of the effects that cold weather conditions have on concrete test cylinders. In accordance with ASTM C-31, Standard Practice for "Making and Curing Concrete Test Specimens in the Field," test cylinders have several significant uses.

3.2.1 Acceptance testing for strength specimens.

3.3.1 Determination of the time the structure is put into service.

3.3.4 Form or shoring removal time requirements.

As stated in ASTM C-31, the acceptance criteria for the test cylinders states that they must be stored for a period up to 48 hours in a temperature range from 60 to 80 F and in an environment preventing moisture loss from the specimens. For concrete mixtures with a specified strength of 6000 psi (40MPa) or greater, the initial curing temperature shall be between 68 and 78 F.

Normally in the Bay Area we experience moderate temperatures in the winter, but in the Valley and Sierra, temperatures below freezing are not uncommon. Therefore, we need to be concerned with the proper handling, storage, and curing of test cylinders on the jobsite. This will ensure we maintain the standard test procedures for the integrity and quality of concrete.



JANUARY 6 - JOINT ACI/SEAONC MEETING!

ADDRESS CORRECTION REQUESTED



San Francisco
444 Oak Place
San Andreas, CA 95249

Northern California & Western Nevada Chapter

Tall Concrete Buildings - Presented by Ron Klemencic, S.E.

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The construction of tall concrete buildings around the world has continued over the last several years, despite the economic downturn and concerns over increased terrorist threats. Advances in concrete construction have occurred in Europe, the Middle East, North America, and Asia. The application of advanced structural systems, as well as the introduction of new construction techniques and products, have contributed to the success of these projects. This month's presentation will provide an overview of some of this new technology and the challenges that have been overcome in implementation. Specifically, the presentation will include a discussion of:

- Tuned liquid mass dampers
- Two-Day construction cycles for high rise construction
- New forming systems and their effects on speed of construction and structural performance
- In-slab air ducts
- Unique framing systems

One project that will be highlighted is the Highcliff Apartments in Hong Kong. Located on a steep, rocky slope high above Central in Hong Kong, this 73 story tower soars to new heights with an amazing slenderness ratio of 20:1. A unique structural framing system, in combination with a series of tuned liquid mass dampers, ensures the safety and comfort of the buildings occupants.

As President of Magnusson Klemencic Associates, Ron Klemencic, S.E., has designed tall concrete buildings around the world and throughout the United States. In addition, Ron currently serves as Chairman of the Council on Tall Buildings and Urban Habitat, adding further breadth to his field of vision on international construction activities.

Closer to home, Magnusson Klemencic Associates has completed the structural design of many high-rise buildings in San Francisco, including the nearly completed high-rise residential towers of The Metropolitan at 333 First Street.