

FIRST MIX

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A weekly look at events, education, people and projects in the Northern California and Western Nevada Concrete Industry.

American Concrete Institute

Northern California  Western Nevada
Chapter
Advancing Our Regional Concrete Industry Since 1958



Thank You to Everyone Involved in Our March 8 Event!

ACI President Sharon Wood (left of center) in a sea of appreciative San Jose State Student Chapter Members. Rich Vance, NCAWNV Chapter President, is at far left. Dr. Akthem Al-Manaseer, Student Chapter Advisor, is right of center. SJSU Student Chapter President Diyaree Ismael is in the front row, left of center in blue shirt.

Our March 8 Student Night at SJSU featured ACI President Sharon Wood. She spent time before dinner visiting with many of the 60-plus students who attended, discussing engineering and enjoying herself.

Her very interesting presentation was “Passive Sensors for Monitoring Concrete Structures”, which described her research into a low cost system with wide potential.

For more information about the sensor system, you can review the [patent document](#).

Special thanks to: ACI President Sharon Wood; Dr. Akthem Al-Manaseer, SJSU Student Chapter advisor; ACI Student Chapter members and other engineering students; NCAWNV Chapter Members associates; and ACI Members -- all comprising the large and enthusiastic group!

May 2 - Granite Bay Golf Club!

Includes Greens Fees,
Golf Cart, Box Lunch,
Dinner, Beverages
and Logo Shirt
for \$150 per Golfer

Full Information
and Signups March 21st



TUESDAY, APRIL 12 • IRON GRILL, SACRAMENTO

Performance Based Design of 111 Main

SKIDMORE, OWINGS & MERRILL

Speakers: Peter Lee, SE, Associate Director, Alvin Tsui, SE, Lachezar Handzhiyski, PE

April 12 is our annual joint meeting with SEAOC.

111 Main is a 25-story reinforced concrete core wall office tower located in downtown Salt Lake City, Utah. The tower will rise at 387 feet above grade and contain a steel hat truss on the roof of the building hanging all steel perimeter columns. Because the building height exceeds the 240 feet limit for core wall only buildings stated in ASCE 7-10 provisions, the tower was designed using a performance-based design methodology as a code-alternative approach.

Project site-specific seismic hazard design criteria was developed based on close proximity to the active Wasatch fault zone. The criteria involved a two-stage design approach based on a 2475-year earthquake.

Make Your Reservations Starting March 18!

MAKE RESERVATIONS

Iron Grill 2422 13th St. Sacramento

\$40 for All Dinner Guests

Social Hour - 5:30 PM

Dinner – 6:30 PM Buffet with beef, chicken, and vegetarian entrees with delicious potato, vegetable, and salad sides.

Presentation – 7:30PM

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Industry News

[Email us](#), and we'll include your **Industry News** and give you a HT (hat tip) thank you for your item.

From Concrete Construction:

[Bill's Blog: Fighting Fire with Fire](#)

From Bill Palmer, Editor: The concrete business is now fighting back against the move across the U.S. to accept wood construction for low- and mid-rise construction, a market that has traditionally been strong for concrete and masonry. The wood industry has spent millions to convince building owners and code administrators that wood is safe (and cheaper); as a result concrete's share of that market has dropped from 30% to 20% while wood's share has increased from 23% to 40%.

From ACI Concrete SmartBrief:

[Photos: Topping out at the Wilshire Grand in L.A.](#)

The Wilshire Grand, the "tallest building west of Chicago," has topped out in Los Angeles. The 1,100-foot building will house 400,000 square feet of office space and 900 hotel rooms. About 11,000 workers from around the world are the project team, which should finish up next March.

Education & Technical

From ACI Concrete SmartBrief:

[Reversible concrete has potential for shape-changing structures](#)

String, rocks, a 3D printer and little more have demonstrated the possibility of reversible concrete -- or structures that can change their shape based on need. "The ability to digitally fabricate, disassemble, and reassemble structures with no material losses changes the paradigm of architecture as well as the view of permanent/temporary architecture," says Andreas Thoma of Gramazio Kohler Research.

From ACI Concrete SmartBrief:

[Video: Calcination Emissions Help Create Sustainable Cement](#)

Researchers at University of California at Los Angeles have developed CO2NCRETE, a material that takes carbon dioxide emissions from calcination, mixes it with limestone and converts that into sustainable cement. "While cement production results in carbon dioxide ... if we can reutilize CO2 to make a building material which would be a new kind of cement, that's an opportunity," said associate professor of civil and environmental engineering Gaurav Sant. The material has been tested on a 3D printer, and the researchers hope to develop a larger test project.

From ACI's Education Department:

[ACI University App](#)

The updated ACI University App provides information on over 100 online courses and education publications.

Chapter Coming Events

April 12 – Iron Grill 2422 13th St. Sacramento – 5:30 PM
SEAOCC/ACI Joint Event – Starts at 4:30 PM
"Performance Based Design of 111 Main"

Speakers: Peter Lee, SE, Associate Director,
Alvin Tsui, SE, Lachezar Handzhiyski, PE

Company: Skidmore, Owings & Merrill LLP

May 2 – Granite Bay Golf Club
11th ACI Golf Classic - \$150 per Golfer

>> May - 2016-2017 Chapter Elections

June 14 - LangeTwins Winery in Acampo
Annual Meeting, Installation, Awards and FUN!

We usually meet on the 2nd Tuesday, with Social Hour at 6 PM, Dinner at 7 PM, and Presentation at 8 PM. Our annual SEAOCC/ACI Event in April starts at 5:30 PM.

Northern California and Western Nevada Chapter ACI
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Contacts for Chapter Events

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Industry Job Opportunities

[Just contact us](#) with your resume or job opening.

ACI Career Center

No matter what field of the concrete industry you work in, there are jobs listed for you. [Check out](#) ACI's Career Center.

CalcIMA Job Listings

We appreciate [CalcIMA](#) authorizing a link to their job listings. [Learn more](#) about the jobs that are available as shown on their website.

Join the Chapter or Renew

Membership is a concrete commitment that makes business sense. [Join Us!](#)

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We've put together a PDF describing our website features. [Learn More](#)

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