

# 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

**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.

### Make Your Reservations Today!

#### MAKE RESERVATIONS

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.



111 Main with the Wasatch Range in background and Utah Performing Arts Center in foreground.

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.

**Iron Grill 2422 13<sup>th</sup> St. in 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**

## It's Time to Play! Golfers & Sponsors

**Monday, May 2nd at Granite Bay**

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



Enjoy a Great Golf Experience on May 2nd!

### Signups Available March 30th!

#### • [Download a Golf Classic Flyer](#)

Describes golf package, foursome information and a sizing guide for golf shirts.

#### • [Download a Sponsor Flyer](#)

We include foursomes with several levels of Sponsorship. Get visibility for your company and treat clients to a great golf experience May 2nd. Flyer also includes sizing guide for golf shirts.



**For Information Contact Rowdy Cordero**

Event Co-chair and Chapter Vice President

209.210.0372 [rcordero@nevadacement.com](mailto:rcordero@nevadacement.com)

**Player Signup Deadline April 25**  
**Sponsor Signup Deadline April 18**

## April 5th ACI Webinar: **Concrete Under the Nanoscope**

April 5, 2016 @ 1:00 - 2:30 p.m. EDT

0.15 CEU/1.5 PDH

[Individual Registration](#) [Group Registration](#)

*Presented by:*

**Surendra P. Shah**, Professor, Northwestern University

**Maria S. Konsta-Gdoutos**, Professor, Democritus University of Thrace

**Konstantin Sobolev**, Associate Professor, University of Wisconsin–Milwaukee

Concrete, the most ubiquitous material, is a nano-structured, multi-phase, composite material that ages over time. Nanotechnology applications in concrete are still limited. Yet, the tremendous potential of nanotechnology to improve the performance of concrete is most promising. Learn more about nanotechnology.

## Thank You . . .



*ACI President  
Sharon Wood*

It has been my honor to represent the American Concrete Institute as its 92nd President during the past year. I have interacted with members from across the Institute and met people from around the world, and they all shared a vision for improving our infrastructure, and the overall quality of life, through the use of concrete.

**Concrete Construction:**

### [A Live Letter from Alcatraz](#)

We've been keeping up to date on the exciting programs the Concrete Preservation Institute is sponsoring on Alcatraz Island with military veterans. In this videotaped interview from WOC, Tanya Komar and Scott Burghardt update Bill Palmer on CPI's efforts over the past year.

**ACI Concrete SmartBrief:**

### [Candlestick Park - Mega Development](#)

Construction is expected to start in 2017 on a massive development at the former site of Candlestick Park in San Francisco. The project's first phase could cost as much as \$3 billion. The city approved a key part of the mixed-use development, which will include residential, retail, cultural and public space. First will be a 500,000-square-foot shopping center and 2,214 housing units.

**ACI Concrete SmartBrief:**

### [Grand Coulee Dam 12M y3 Concrete](#)

The mile-long Grand Coulee Dam was built 75 years ago on Washington State's Columbia River. The 550-foot-tall dam is one of the world's largest concrete structures, requiring 12 million cubic yards to construct. This article gives a history of the dam's construction as well as some of the controversy surrounding it.

**ACI Concrete SmartQuote:**

***"Don't find fault -- find a remedy."***

**- Henry Ford**

## Industry News

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

**Two Links from Josh Patterson (Double HT):**

### [Will L.A. Tunnels Include a Freeway?](#)

The Los Angeles County Metropolitan Transportation Authority has placed its own machine, nicknamed Harriet, under Crenshaw Boulevard, where tunneling for three new underground rail stations will occur in the next 15 months.

### [Self-healing Concrete, Driverless Cars](#)

Driverless cars and self-healing concrete may not quite cast North Dakota's highways into a scene in a '60s-era Jetsons cartoon, but it's happening in our state too and raising issues.

**ACI's Concrete SmartBrief:**

### [Concrete Construction Projects sped up with Poly Meta Forms](#)

Poly Meta Forms were used to deal with multiple concrete sidewalk, slab and curbing projects for two of California's prisons and turned out to be a "game changer," according to a supervisor of inmate ward labor. The forms allowed for faster, easier construction and can be reused up to 200 times, which makes them more eco-friendly.

### [WOC 2016 Post Show Issue!](#)

Go directly to articles you want to read; print pages you want to reference; click through on links for more information, slideshows, and videos; and save the edition.

# More Industry News

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

## Education & Technical

For Construction Pros:

### [Kings Arena Drone Wins Award](#)

Solution utilizes images and videos taken with camera drones and four-dimensional BIM.

ACI Concrete SmartBrief:

### [4th International Conference on Sustainable Construction Materials](#)

Registration is now open for the fourth international conference in Sustainable Construction Materials and Technologies (SCMT4), to be held August 7-11 in Las Vegas. Co-sponsored by ACI, the conference themes include Carbon Credits; Carbon Dioxide Sequestration; Designing Structures with Sustainable Materials; Greenhouse Gas Reduction; and many more.

ACI's Concrete SmartBrief:

### [Exec: Existing concrete structures strengthened by crystalline coatings](#)

Capillary pores and cracks in reinforced concrete structures can lead to corrosion but can also be used to help heal it, according to this article. Crystalline materials applied to the surface can diffuse through the concrete via those same pores and cracks, bond with the concrete and become an intrinsic part of it, says Farhad Nabavi, senior technical director at Xypex. A test of the material on concrete beams of a bridge found that compressive strength and water permeability both improved.

Scottish Construction Now:

### [Thirsty Concrete Absorbs 1,000 Gallons of Water in 60 Seconds](#)

Talk about permeable pavement! How much does it cost?

ARI News:

### [New study: best pavement practices](#)

A new Federal Highway Administration Tech Brief cites benefits and drawbacks of fly ash, slag cement, silica fume and natural or alternative pozzolans for highway-grade concrete.

ACI 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 13<sup>th</sup> 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  
Post Office Box 2393 • Elk Grove, CA 95759

### Contacts for Chapter Events

Rowdy Cordero, Chapter VP and Program Chair  
[rcordero@nevadacement.com](mailto:rcordero@nevadacement.com)

Miki Craig, Chapter Business Administrative Manager  
[admin@aci-ncawnv.org](mailto:admin@aci-ncawnv.org)

## 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!](#)

### Get a Web How-To Guide

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

### How to Contact Us

Chapter officers, directors, committee chairs and staff. [Take a Look](#)

### “First Mix” Archives

We maintain links to previous issues. [Catch Up](#)