



SEA - NEWS

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In This Issue

February 16, 2016 Member Luncheon

February 16, 2016 Member-Fellows Luncheon

Tuesday, February 16, 2016

Stone Brewery
2816 Historic Decatur Rd.
Bldg. 1, Suite #116
San Diego, CA 92106

Not safe enough. Public expectations for the seismic performance of new buildings.

Abstract:

What will happen to the building stock if the Big One, a large but not exceedingly rare earthquake, occurs 50 years from now, after most older buildings are replaced with ones that comply with current code? New buildings are intended to have a maximum 1% collapse probability in 50 years and a maximum 10% collapse probability at MCER shaking. For every collapse, 60 buildings are red- or yellow-tagged. If the code produces the intended performance, the Big One could produce shaking exceeding 0.75 times design level shaking across much of a metropolitan region, causing enough buildings to collapse or be red- or yellow-tagged that

A Message From Your President

Happy New Year! The holiday season has come and gone, and it's time that we must all get back to business as usual. This past year has been a wonderful whirlwind, and I am personally looking forward to 2016 and the opportunities it will bring.



Last month, we had our joint SEAOSD/ASCE lunch meeting. The meeting was well attended, and it was nice to reconnect and spend time with our ASCE colleagues. The presenter, Wade Durant, gave the audience a sneak peak at the new book being published by the ASCE San Diego Section as part of their Centennial Anniversary. The book is titled "Bridges of San Diego - The Art of Civil Engineering" and offers an illustrative compilation with detailed narratives of bridges in San Diego County, ranging from the 1912 Spruce Street Suspension Bridge and 1932 Goat Canyon Railroad Trestle to the 2012 Harbor Drive Pedestrian Bridge. I enjoyed learning about the history of these bridges and seeing the evolution of bridge construction as San Diego has grown. The book will be available soon, and I highly encourage you to check it out!

Our next member meeting is coming up on Tuesday, January 19. The topic will be "Steel Moment Frame Testing - How and Why?" and will be presented by Ryan Smith of SidePlate Systems. There have been many changes in design methodologies over the past 20 years as a result of the extensive damage experienced during the 1994 Northridge Earthquake. This presentation will highlight some of these changes and provide an in-depth overview of moment frame behavior and lessons learned from the wide range of testing that have been performed, including video footage showing what happens to moment frame connections while undergoing large inelastic deformations.

I also want to mention that the National Engineers Week (NEW) Awards Banquet is coming up next month on Friday, February 26 at the San Diego Air & Space Museum in Balboa Park. The purpose is to call attention to the contributions that engineers make to society. This event has been celebrated since 1951 and takes place the fourth week of February in conjunction with President George Washington's Birthday. President Washington is often called the nation's first engineer, notably for his work in land surveying. For more information on this event, please visit www.new-sandiego.org.

undamaged vacancies will not accommodate the displaced population. Making buildings 50% stronger can achieve a 95% shelter-in-place objective for about 1% marginal cost, perhaps \$3 per square foot.

A new public-opinion survey finds that Californians want new buildings to be habitable or functional after the Big One, and are willing to pay the additional \$3 per square foot to achieve that objective.

Keith Porter is a Research Professor at University of Colorado Boulder and principal of the risk consultancy SPA Risk LLC. He specializes in 2nd-generation performance-based earthquake engineering of the kind specified in the recent FEMA P-58 guidelines.

Some of his notable projects include the ShakeOut scenario, in which he served as chief engineer, the Global Earthquake Model, in which he led development of vulnerability estimation methods, and the Mitigation Saves study for the US Congress that estimated \$4 saved for every \$1 spent on natural hazard mitigation.

[**CLICK HERE TO REGISTER!**](#)

Mark your Calendars for our next member

I would like to point out some recent efforts to develop a mentor/mentee program geared towards college students. This is envisioned to provide an opportunity for current students to get paired with and shadow a local engineer in an office to gain a better understanding of a typical workday. I would have loved this opportunity when I was in school, and I'm glad to see we have young members taking this initiative to become involved in the Association. Sabina Piras will be giving an overview of this program at our January lunch meeting. I hope you will consider becoming involved as a mentor and connecting with a student.

In closing, as you're all working on New Year's resolutions, I once again encourage you to become active in an SEAOSD Committee. This is a great way to get involved and interact with other engineers in our community. Contact information for each of the Committee Chairs can be found at the end of the newsletter or on the SEAOSD website. Thanks again for your support, and best wishes for the New Year! I look forward to seeing and hearing from you in 2016.

Ryan Turner, S.E.
president@seaosd.org
SEAOSD President
2015-2016



USRC Certification & New Membership Opportunities

The US Resiliency Council (USRC - www.usrc.org) is pleased to announce two important new opportunities as it launches its rating system for the earthquake performance of buildings.

1. Join the USRC as we embark upon our mission to implement meaningful rating systems that describe the performance of buildings during earthquakes and other natural hazards.
2. Apply to become a USRC Certified Rating Professional and/or Certified Rating Reviewer to perform and review USRC ratings.

New membership opportunities and benefits are described at www.usrc.org, where you can join online.

[**TO READ MORE CLICK HERE**](#)

**luncheon will be on
March 15, 2016 at
Stone Brewery
More information
to follow soon.**

**New Member
Applicant Postings**

2017 SEAOC Convention

It may seem far away, but the 2017 SEAOC Convention in San Diego, is just around the corner! In February, the Convention Committee will be touring potential venues for the site of the convention. If you are interested in joining the committee and giving your input on which site is the right location, contact Convention Chair, Jeniene Knight at knight.jeniene@gmail.com.

Younger Member Forum

If you are 35 or under and would like to participate in the SEAOSD YMF activities, contact YMF Chair, Aaron Taylor. He will let you know about upcoming YMF events and add you to the mailing list.

**Aaron Taylor
Hope-Amundson**
ataylor@hope-amundson.com

Quick Links

[Our Website](#)

[Job Forum](#)

**2016 National Engineers Week Banquet
February 26th at the San Diego Air and
Space Museum**



2017 SEAOC CONVENTION

Calling for Members within your companies to join us as we plan the 2017 SEAOC Convention and SEAOSD's 50th Anniversary Celebration! Contact Convention Chair, Jeniene Knight. Our Convention Committee planning meeting resumes in January. The SEAOC Convention will be hosted at the beautiful Hilton San Diego Resort & Spa in Mission Bay.

Jeniene Knight, Convention Chair
SEAOSD2017@seaosd.org

COMMITTEE ROSTER

Your 2015-2016 Committee Roster

[CLICK HERE](#)

JOB FORUM December & January



HTK Structural Engineers, located in San Diego (Poway), is seeking experienced (2-7 years) ENGINEERS to perform structural design and detailing for a variety of commercial and residential projects. Knowledge of wood, structural steel, concrete masonry and current building codes is required. NOTE: This is a position for structural design (not mechanical, plumbing, etc.). Competitive salaries, great bonuses and retirement package. Paid health/vision and dental insurance, vacation, sick leave and holidays. Great work environment!

Please send resumes to: ts@htkse.com

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Holmes Culley is a California based structural engineering firm dedicated to providing quality service and creative design solutions. As part of the New Zealand based Holmes Group, we are an international practice with over 300 professionals in six offices, providing engineering expertise to clients along the West Coast and throughout the Pacific Region.

We are seeking structural engineers with 5+ years design experience for both our San Francisco and Los Angeles offices; M.S. degree in Structural Engineering and PE license are preferred.

Check us out at www.holmesculley.com and send your resume with cover letter to hr@holmesculley.com

November Postings

Rob Wellington Quigley, Architects looking for tenant in their new building. Would love engineer to share space. Light-filled, good freeway access. Kit. & bathroom w/ shower avail. for tenant use. 695 sqft- \$1,946 or 1045 sqft- \$2,926. kathleen@robquigley.com.



JOB TITLE: Project Engineer - Structural Modeling Specialist
LOCATION: Mission Viejo, CA

You:

- * Do the right things for the right reasons
 - * Are a great Team Player
 - * Take pride in your work
- * Enjoy helping others succeed

We:

- * Allow you to learn and grow
 - * Care about people first
 - * Celebrate your success
- * Accomplish amazing things by working together

SidePlate Systems is seeking a dynamic Project Engineer - Structural Modeling Specialist to join our People First team. SidePlate Systems, Inc., a subsidiary of MiTek® USA Inc., a subsidiary of Berkshire Hathaway, Inc. is driven to create trusted partnerships that are stronger than steel. By harnessing our 20 years of expertise and innovation, we are able to limit liability, improve performance and deliver sophisticated steel frame solutions that save our clients time and money. Our customer service oriented and empowered teammates develop and produce steel designs and contract documents for new and retrofit structures.

Duties and Responsibilities:

- * Review, evaluate and modify structural analysis computer models provided to SidePlate by Engineer of Record.
- * Create structural analysis computer models using preliminary drawings and/or design criteria.

Calendar

New Location!
Stone Brewery
2816 Historic Decatur
Rd., Bldg. 1, #116
San Diego, CA 92106

Tuesday, January 19, 2016
January Member Luncheon

Tuesday, February 16, 2016
Fellows/Life Member Luncheon
(Member meeting for all,
honoring our Fellow and Life
Members!)

Tuesday, March 15, 2016
March Member Luncheon

Tuesday, April 19, 2016
Student Night

Tuesday, May 17, 2016
May Member Luncheon

Tuesday, June 21, 2016
Awards Night

****Meeting sponsorship opportunities available for the 2015-16 meetings. Contact secretary@seaosd.org for more details. Future meeting details will be posted on the website (www.seaosd.org) as they become available.**

SEAOSD Board of Directors Meeting

The SEAOSD Board of Directors normally meets the second Tuesday of every month. The February Board of Director's meeting will be held on Tuesday, January 19, at 10:00 AM at the Handlery. If you have an issue to bring before the Board please let a member of the Board know so that it can be placed on the agenda. The past agendas/minutes can be viewed on the SEAOSD webpage at <http://www.seaosd.org>.

- * Develop efficient gravity and lateral steel frame solutions.
- * Prepare cost comparisons vs. other structural systems to assist in determining financial feasibility of project.
- * Support the sales staff and act as a liaison between sales staff and engineering team.
- * Ability to interact at a high level of professionalism with others; including co-workers, vendors and customers.
- * Attendance during regular work hours and overtime required.
- * Participate in occasional field visits to observe SidePlate connection fabrication and erection.

A minimum of 3 years of experience in structural engineering, along with a bachelor's degree in Civil, Structural or Architectural Engineering and a California PE License is preferred. It is also preferred that you have an excellent understanding of statics, dynamics and structural load path as well as a sound working knowledge of structural engineering software platforms, including RAM, ETABS or SAP to analyze building structures. Also, required is an ability to use Microsoft Windows, Word, and Excel.

Office Hours & Travel:

Full Time, limited travel, Monday-Friday

Please indicate your interest by submitting your resume via email to Pam Prince atpprice@sideplate.com. Selections will be made based on a combination of skills, knowledge, and abilities.

SidePlate is an E-Verify, Drug and Tobacco-Free Workplace. We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law

FREE Workshop

The workshop is free and registration is required. Tuesday January 26th, 2016 Handlery Hotel Mission Valley, 7am - 12noon. Earn free CEU's.

The target audience is Designers, Architects, Engineers, Specifiers and Plan Checkers. We will cover Moment Frames (Strong Frame), Pre-Fabricated Shear Walls (Strong Walls), High Capacity Rod Systems (Strong Rod/Hold-downs).

This workshop is now on our training website and available for registration, www.strongtie.com/workshops.

If you have any questions please contact Russell Ek russellek@strongtie.com

Keystone Engineering Seminar

February 11, 2016

RCP and Keystone Retaining Wall Systems offer you the opportunity to gain valuable knowledge about the following engineering topics relating to structural segmental retaining walls:

- * Introduction to MSE Wall Design
- * Design Methodology Differences
- * Seismic Design and MSE Walls

Certificate for 3.0 PDH credits will be provided.

Click here for flyer [RCP-2016EngineerCert](#)

To register contact Gina Adams gadams@rcpbblock.com

Send correspondence to:
SEAOSD, 401 W. Lexington
Ave. #12621, El Cajon, CA
92022, (619) 733-2734 or
email secretary@seaosd.org.

Mark Your Calendar Now The Second Annual BSSC Colloquium Takes Place March 8 in Burlingame, CA

SEA-NEWS Deadlines

Feb 2016 01/20/16

March 2016

02/20/16

These dates are subject to
change. You may contact the
Editor:

Heather

secretary@seaosd.org

Phone: 619-733-2734

c/o SEAOSD

401 W. Lexington Ave., #12621
El Cajon, CA 92022

All submissions must be given
to the Editor by **12:00 PM** the
day of the deadline to allow
time for formatting and
printing.

Thank you,
**SEAOSD Publications
Committee**



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Plan to join the National Institute of Building Sciences Building Seismic Safety Council (BSSC) to find out about the latest on the National Earthquake Hazards Reduction Program (NEHRP) NEHRP Recommended Provisions for New Buildings and Other Structures and Project 17, Development of Next-Generation Seismic Maps, when the BSSC presents its Second Annual BSSC Colloquium, "Seismic Design Update 2016: An Interactive Exploration of the 2020 NEHRP Provisions and Project 17 Issues." The BSSC Colloquium will be held 10 a.m. - 5:30 p.m. PT, March 8, 2016, at the Embassy Suites Hotel - Waterfront, Burlingame, California, located some five miles south of the San Francisco International Airport.

Earn continuing education units (CEUs) while learning the latest about Project 17, as well as issues for the upcoming development of the NEHRP 2020 NEHRP Recommended Provisions for New Buildings and Other Structures. The afternoon session will include a workshop to garner public input on issues for the 2020 NEHRP provisions.

Under the sponsorship of the Federal Emergency Management Agency (FEMA), BSSC administers an ongoing consensus-based process of updating and maintaining the NEHRP Recommended Provisions for New Buildings and Other Structures. The NEHRP Recommended Provisions and its Commentary embody the state-of-knowledge criteria for design and construction of new buildings subject to earthquake hazards. The new knowledge and technologies contained in this resource document are diffused into the model building codes developed by the International Code Council (ICC) and several national standards, including the American Society of Civil Engineers (ASCE) Structural Engineering Institute (SEI) ASCE/SEI-7 Minimum Design Loads for Buildings and Other Structures.

The March 8 BSSC Colloquium will be preceded by the BSSC Annual Meeting in the morning and followed by a Provisions Update Committee (PUC) meeting on March 9, and a Project 17 Committee meeting on the March 10. Watch the BSSC website for updates.
[<https://www.nibs.org/?page=bssc>]

SEAOSC Events

Winter Education Program

Where: Grand Event Center, Long Beach

When: Friday & Saturday, January 29 & 30, 2016

Session 1: Friday, January 29, 9:00 am - 3:00 pm (5 PDH credits)

Registration at 8:30 am and lunch provided

Session 2: Saturday, January 30, 8:15 am - 12:30 pm (4 PDH credits)

Registration at 7:30 am and breakfast provided

Find more information and register here:

<http://www.cvent.com/events/seaosc-2016-winter-education-program/event-summary-70706f55578643d1bb915074c22d84e2.aspx>

Student Scholarship Awards Night

Where: Luminarias Restaurant, Monterey Park

When: Wednesday, February 3, 2016

Job Fair & Social Networking 3:30-6:30 pm

Dinner: 6:45 pm

Keynote Speaker: 7:30 pm

Awards: 8:15-8:45 pm

Find more information about registering, participating in the job fair or donating here: <http://seaosc.org/event-detail/student-scholarship-awards-night-020316>

Please feel free to contact me with any questions, comments or concerns.

Thank you,
Diana

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