



Newsletter of the
Structural Engineers
Association of Oregon

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CONNECTIONS

January 2017 Volume 17 Issue 3

Upcoming SEA0 Meetings and Events:

Wednesday, January 25, 2017: SEA0 Lunch Meeting

Topic: Structural Repairs on the Marion County Courthouse Square Building
Speakers: Dave Clark, Structural Group and Mike Ahern, Pivot Engineers
Location: Portland City Grill, 111 SW 5th Ave. 30th Floor, Portland, OR
Time: 11:30am Check-In and Lunch, 12:00pm Presentation
PDH Credit: 1 hour

Friday, January 27, 2017: YMF Lunch Meeting

Location: KPFF, 25th Floor, Broadway Room
Time: 12:00pm
See page 4 for additional YMF information.

Thursday, February 16, 2017: YMF Happy Hour

Location: Shanghai Tunnel Bar
Time: 5:30pm
See page 4 for additional YMF information.

Wednesday, February 22, 2017: Annual SEA0 SF Tradeshow

Look for more information in upcoming newsletters.

Thursday, February 23, 2017: 53rd Annual Engineers Week Banquet - Host a High School Student

Topic: Engineering Global Health
Speaker: Evan A. Thomas, P.E., Associate Professor and Director of Sweet Lab at PSU
Time: 6:30 pm to 8:30 pm
Location: Lloyd Center DoubleTree by Hilton Hotel, 1000 NE Multnomah Street, Portland OR
Visit website to become a sponsor <http://www.oregonengineersweek.org/sponsorship/sponsor>, or see flyer on Page 8.

SEA0 has a twitter
account and can be
followed at
@SEA0Oregon.



CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

Send membership inquiries to:
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PRESIDENT'S MESSAGE: *DESIGNING IN THE SMART PHONE ERA*

By: KEVIN MCCORMICK, S.E.



As we welcome in the new year there is plenty of work to be done and we are still searching for new engi-

neers. While this is a positive change as compared with 2008, projects are coming in faster and faster with shorter timelines, which increases the chances for mistakes. As I look back over my own engineering career, I have seen changes that have sped up the delivery process. My first project was ripped off of a fax machine and handed to me to complete. Now, how many offices still have a fax machine?

We used to have the luxury of time. We could work on a project during the week and then have the weekend to think about it to make sure it was right. Now, with email and smart phones, we are always plugged-in and clients expect answers fast. The days of a phone call and meeting are becoming less and less. So I would like to remind us all that 150 pages of output from a computer does not mean that the element has been properly designed. Engineering is understanding what needs to be designed, how it needs to be designed, and then determining if the output really means something, or if a whole bunch of scratch paper was just created.

As we all have new young engineering graduates working with us, make sure they understand what they are designing and that they have fun doing it. The oldest bridge still in use today is the Frankford Avenue Bridge constructed in 1697 in northeast Philadelphia and it's up to us to see to it that our legacy as skillful engineers can live on at least half as long.

As an aside, SEAO is in desperate need of volunteers for our committees. This organization will run much better with many people helping and will also lighten the workload for all. Young, old, timid or bold; your help will be welcomed and much appreciated. Please come see one of your board members and we can help find a committee that is right for you.

— Kevin McCormick

SEAO COMMITTEES

CODE ADVISORY COMMITTEE

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PROGRAM COMMITTEE

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SUPPORT THE ASCE/AISC NATIONAL STUDENT STEEL BRIDGE COMPETITION AT OSU

Oregon State University has the honor of hosting the 2017 National Student Steel Bridge Competition (NSSBC) on May 26-27. Help us to make the 2017 NSSBC a resounding success and to keep student registration fees low by becoming a sponsor!

Sponsorship Level	Contribution	Benefits
Platinum	\$5000+	Booth at the display event; Ad space (3.5"x3") in the competition guide; 2 tickets to the awards banquet; Logo on the competition shirts and website
Gold	\$2500	Ad space (3.5"x3") in the competition guide; 2 tickets to the awards banquet; Logo on the competition shirts and website
Silver	\$1000	2 tickets to the awards banquet; Logo on the competition shirts and website
Black	\$500	Logo on the competition shirts and website
Orange	\$100	Name on the competition shirts and website

Other opportunities for company and NSSBC branded merchandise are also available. If you are interested in sponsoring the 2017 NSSBC event, please contact Chelsea Farnsworth at farnswoc@oregonstate.edu.

VENDOR ADVERTISING

SEAO is now accepting vendor advertising!

Cost of a full page ad running for one month:

\$250 - Members

\$350 - Non Members

For more information, contact Jane Ellsworth at jane@seao.org.

YOUNG MEMBER FORUM ACTIVITIES

BY: KATE PFRETZSCHNER AND DEANNA KUHLMAN

Upcoming YMF Events:

Friday January 27th – Lunch Meeting

Location: KPFF, 25th Floor, Broadway Room

Time: 12:00pm to 1:00pm

Lunch will be provided.

Thursday February 16th – Happy Hour

Location: Shanghai Tunnel Bar

Time: 5:30pm

YMF Update:

We would like to see members active in social events, educational activities, and volunteering opportunities. Come ready with ideas for what you'd like to see us do this year! Social events can include (but are not limited to): sporting events, skiing trips, camping trips, picnics, and HAPPY HOUR! Pizza will be provided at the monthly lunch meetings.

- Starting in February, YMF lunch meetings will be on the first Friday of every month. Location will be sent out in an appointment.
- Happy hours will be on the third Thursday of every month. Location will be sent out in an appointment.

To let us know if new members need to be added to the contact list, please email Deanna Kuhlman or Kate Pfretzschner.

YMF Website:

Please visit our website for more information on YMF events:

<http://www.seao.org/committees/advocacy/ymf/>.

OBITUARY NOTICE

SEAO members Pedrito (Peter) Sanchez and Jay Kushner passed away last year.

SEAO offers condolences to the family and friends of Peter and Jay.

SEISMIC EVENTS

ASCE Webinars

Wednesday, February 1, 2017, 8:30 AM – 10:00 AM PST. [Introduction to the Design of Wood Lateral-Force Resisting Systems in Accordance with 2015 International Building Code.](#)

Tuesday, February 28, 2017, 8:30 AM – 10:00 AM PST. [Design of Lateral Load Resisting Systems in Masonry Buildings.](#)

Tuesday, March 7, 2017, 8:30 AM – 10:00 AM PST. [2015 IBC, ASCE 7 and 2015 SDPWS Seismic Provisions for Wood Construction.](#)

Friday, March 31, 2017, 8:30 AM – 10:00 AM PST. [Practical Nonlinear Modeling and Analysis of Buildings including a Case Study.](#)

ASK A QUESTION, GET AN ANSWER

Do you have a code question you would like to ask the Wind Committee or Snow Committee? SEAO is pleased to announce a simple way for Q&A's with technical committees. Email questions to jane@seao.org, and SEAO will direct your question to the appropriate committee chair for a response. Questions and their answers will be made anonymous and available to the membership on the website www.seao.org.

Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

SEAO RECRUITMENT FLYER

On page 7 of this newsletter is a printable flyer that we ask you to post in your office to remind engineers of the benefits to them and need by SEAO of their involvement in the organization. Please take a moment to print and post it. Thank you!

EMPLOYMENT OPPORTUNITIES

MILLER CONSULTING ENGINEERS, INC.

Structural Engineer
Portland, OR

Miller Consulting Engineers, Inc. is a well-established structural engineering firm located in Portland, Oregon, is looking for an experienced engineer with four or more years of experience. We provide diversified structural engineering services to a wide variety of clients and design with timber, concrete, masonry, steel and composites. Our consulting firm is a fast-paced business and last year we completed over a 1,000 projects. We offer competitive salaries based on experience, are a family oriented firm, maintain reasonable work hours, and have a great work environment.

A bachelor's degree in civil/structural engineering and a professional engineering license are required (or the ability to take the exam). Our engineers have the opportunity to work on a wide variety of projects including commercial, industrial, residential, towers, retaining walls, specialty structures, seismic analysis/retrofit, and historical restoration of structures. If you are looking for this kind of work environment with diversified structural engineering, please contact us.

Contact information: email hr@miller-se.com.

MORRISON-MAIERLE, INC.

Structural Engineer
Missoula, MT

Morrison-Maierle, Inc. has exciting opportunities in our Missoula, Montana office for entry to mid-level Structural Engineers. Morrison-Maierle is anchored in the western United States, and has approximately 300 employees and is currently ranked within the *Engineering News Record's* "Top 500 Design Firms."

Opportunity: Morrison-Maierle is recruiting to fill entry to mid-level structural engineering positions. Duties will include working under the direction of the Project Manager and Task Managers in the execution of project related duties. Qualifications: Master's degree in Civil-Structural Engineering; 0 to 6 years' experience. Engineer Intern certification. If years of experience have been fulfilled, Professional Engineering (PE) license is preferred.

For more details and to apply, please visit our website at www.m-m.net. An Equal Opportunity Employer – Minorities / Females / Disabled / Veterans.

EMPLOYMENT OPPORTUNITIES (CONT.)

LUND OPSAHL

Structural Engineer
Seattle, WA

Lund Opsahl is a growing structural engineering firm located in the SODO neighborhood of Seattle and we are looking to expand our team of exceptional individuals. Lund Opsahl is known for its technical leadership and creative environment. We are a woman owned business and work on a wide range of project types.

We value the professional relationships within our firm and we believe those values are fundamental to the development of professional relationships outside of our firm. Collaboration within our office as well as with our clients requires commitment and responsibility. Currently we are looking for people in the following positions: Structural Engineer and Design Engineer.

Please visit our website, www.lundopsahl.com for additional information and job descriptions for each of these positions. You can also send inquiries and/or resumes to careers@lundopsahl.com.

CATENA CONSULTING ENGINEERS

Structural Engineer
Portland, OR

catena consulting engineers provides the personal environment of a small firm while providing the opportunity to work on a variety of projects. Our projects vary in size from a single day's effort to large projects with construction values in excess of \$300 million. You will gain design experience in concrete, steel, timber, and masonry buildings and will work on a wide variety of project types including buildings created for healing, learning, living, and interacting. Due to the technical complexity and challenge of many of our projects, we seek engineers that hold a Master's degree, and that have a desire to learn, grow, and be challenged. U.S. citizenship is preferred. We are currently seeking engineers with 0-6 years of experience in structural engineering for buildings. For a detailed advertisement and to submit your resume, visit our website <http://www.catenaengineers.com/opportunities.php>.

KPFF PORTLAND

Structural Engineer
Portland, OR

KPFF Portland is looking for Experienced Structural Engineers who are motivated and interested in an opportunity for growth. KPFF is about freedom. Freedom to work on what inspires you. Our engineers work on a vast spectrum of projects that are located around the globe: from anchorage of mechanical systems to complex, non-linear analysis of high-rise structures. We have the benefits of a large, stable firm but none of the red tape that comes with it. Providing first-class service to our clients is what we're about. We are a group of dedicated, friendly, collaborative, hard-working professionals. We are looking for exceptional modelers to join us. Please use the appropriate link below for full details. KPFF is an equal opportunity employer.

Experienced Structural Engineer:

Apply Here:

http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=73

WRK ENGINEERS

Multiple Engineering Positions
Vancouver, WA

WRK Engineers is looking for positive, team oriented engineers to join our firm. We offer a creative, challenging, and energetic environment, and work on a wide variety of structural projects. Our projects include design of commercial, infrastructure, and industrial facilities as well as seismic evaluation, resiliency, and strengthening of existing facilities locally and internationally. Ideal team members will have zero to ten years of experience and be competent designing with all major construction materials. Suitable designers will have an undergraduate in Civil or Structural engineering with a preference for a Structural graduate degree and licensed PE.

We offer competitive salaries, benefits, and flexible work hours.

Visit <http://www.wrkenrgs.com/careers/> to view position descriptions and submit your resume.



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ARE YOU IN THE GAME...

OR ARE YOU A BENCHWARMER?

The Structural Engineers Association of Oregon is there for you, but it also needs you.

If you aren't a member, visit seao.org for the benefits of membership.

If you are a member and you are not yet involved, there are many ways you can help the public and the engineering community...
...and learn and grow at the same time.

Email jane@seao.org or look online for the email address of a current board member to ask for information or to volunteer to serve.



*Celebrating over 50
years of growing
new engineers in
Oregon &
Washington*

53rd Annual E-Week High School Program

You are an essential part of the 53rd Annual Engineers Week High School Program.

Date: Thursday, February 23, 2017

Location: Lloyd Center DoubleTree by Hilton Hotel - 1000 NE Multnomah St.

To participate at E-week, do one of the following:

- 1) Go to <http://www.oregonengineersweek.org/sponsorship/> for online registration.
- 2) Send in the following form and a sponsor check (see details on next page).

We will contact you with additional day of the event information.

Engineers Week Sponsorship Levels

		Sponsor Included on E-week Web and Facebook Pages	Title Sponsor on all Event Publications*	Official Sponsor of College Seminars	Number of Sponsored Students	# Banquet Dinner Tickets for Your Organization
Platinum	\$2,000	✓	✓	✓	20	15
Gold	\$1,000	✓	✓	.	10	10
Silver	\$500	✓	.	.	5	5
Individual	\$75	.	.	.	1	1

*Title sponsors will be included on all event publications if program support is committed by December 31, 2016.

E-week Sponsor Registration

Organization Name: _____

Is this a public agency or non-profit? If so, do you want to participate in the Exhibit Hall?

☐ *Yes please – contact me with more information*

Contact Name: _____

Email Address: _____

Phone Number: _____

Sponsor level - check one:

☐ **Platinum \$2,000**

☐ **Gold \$1,000**

☐ **Silver \$500**

☐ **Individual \$75 x ____ # of attendees**

☐ **I cannot attend, but I would like to sponsor a student - \$40**

Send this form and a sponsor check payable to “ASCE Oregon Engineers Week” to:

Tova Peltz
c/o Oregon Department of Transportation
123 NW Flanders Street
Portland OR 97209.

We will confirm receipt of your registration and send more day of event details.

Please email tova.r.peltz@odot.state.or.us with any questions.

The Engineers Week High School Program is a tax-deductible program affiliated with the American Society of Civil Engineers, a 501c3 non-profit organization.