



Newsletter of the
Structural Engineers
Association of Oregon

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SEAO has a twitter
account and can be
followed at
[@SEAOregon](https://twitter.com/SEAOregon).



CONNECTIONS

January 2015 Volume 16 Issue 3

Upcoming SEAO Meetings and Events:

Thursday, January 21, 2016: YMF Happy Hour

Location: Kells Irish Pub

Time: 5:30 pm to 7:30 pm

See Page 7 for additional YMF information.

Wednesday, January 27, 2016: SEAO Dinner Meeting and Committee Info Session

Topic: Hyatt Regency Hotel Walkway Collapse

Speaker: Glenn Bell, Chief Executive Officer / Senior Principal, Simpson, Gumpertz & Heger Engineers (SGH), Boston, Massachusetts

Location: Sentinel Hotel, The Billiard Room, 614 Southwest 11th Avenue, Portland, OR

Time: 4:45 pm Committee Info Session, 5:30 pm Check-In & Social, 6:15 pm Dinner, 6:30 Program

PDH Credit: 1 Hour

Meeting Sponsor: Contech Services, Inc.



Friday, February 12, 2016: YMF Lunch Meeting

Location: KPFF Consulting Engineers, 111 SW 5th Ave, 26th Floor Conference Room

Time: 12:00 pm to 1:00 pm

See Page 7 for additional YMF information.

Wednesday, February 24, 2016: SEAOSF Trade Show

Location: Monarch Hotel & Conference Center, 12566 SE 93rd Avenue, Clackamas, OR

Look for additional information in upcoming newsletters.

Thursday, February 25, 2016: YMF Happy Hour

Location: TBD

Time: 5:30 pm to 7:30 pm

See Page 7 for additional YMF information.

Thursday, February 25, 2016: 52nd Annual Engineers Week High School Banquet

Topic: Testing and Evaluating Water, Sanitation, and Hygiene Interventions for Reducing Infectious Disease in Developing Countries and Emergencies

Guest Speaker: Daniele Lantagne, PE, Assistant Professor, Department of Civil & Environmental Engineering, Tufts University

Location: Lloyd Center DoubleTree by Hilton Hotel

Time: 6:00 pm to 8:30 pm

Visit the website to become a sponsor: <http://www.oregonengineersweek.org/sponsorship/sponsor>, and see Page 11 for additional information.

Saturday, March 12, 2016: YMF Winterhawks Game

Location: Veterans Memorial Coliseum

Time: 7:00 pm

See Page 7 for additional YMF information.

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.

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PRESIDENT'S MESSAGE: BUSY AND BALANCED

BY: GARY J. LEWIS, S.E.



Now that life has returned to normal after the holidays, the SEAO Board would like to wish you a very happy and successful New Year 2016. It looks now like

this construction recovery may be semi-permanent, but I'm a little more cautious now since I've thought we were in recovery before only to be proven wrong. The old year ended strong and the New Year seems to have started off with resurgence in planning for new construction, and hopefully development won't get derailed again.

When I was a young engineer, it was normal to put in long hours at work to try to keep up with project deadlines and a busy market. When things slowed down in 2008, it took a while to shift my focus from work to other activities, but eventually I found a different balance in life. Now that things are busier at the office and deadlines are again looming, it is necessary to be more disciplined with time and to work extra hours to keep up. But I'm older now, and my body and mind can't function as well with long hours and pressure. Balance is necessary. How do we keep life balance in an industry that surges and then flattens, where we have to be responsive to be competitive? Since I co-own a firm, I'm now my "own boss", but I've found that just means that more people than ever are depending on me now -- my clients. And unfortunately, they don't ever meet with each other to discuss scheduling their projects to make best use of my time. Often, they all want their work done at the same time.

It used to be harder to say "no" than it is now. I would let myself get so overextended, both at work and in my personal life, that it sometimes became overwhelming. As a person who loves a challenge, and loves meeting a tight deadline, challenges motivate and deadlines provide a feeling of accomplishment when they are met. But when work (or life) becomes overwhelming, that is not beneficial.

The other side of the coin is the responsibility and care that our work demands, and the dedication, efficiency and effort required to do it well. I was talking with one of my daughters recently about an acquaintance of hers who puts in minimal effort and time at work. I told her I believed most employers were aware of their employees' levels of commitment to their jobs and careers, and that a person's future is often affected by that judgment. We are in a profession that for most if not all of us is enjoyable and challenging, and, as a result, we are usually more dedicated in our jobs than others are in many other fields. In SEAO, we have a resource that allows us to meet our peers and to socialize at meetings and learn how others handle the challenges of the job. I would like to encourage you to delve deeper at our social times and at SEAO programs to learn how others in similar situations cope with work balance issues.

I also ask that you consider renewing your commitment to SEAO this year, especially if you have not been active lately. Yes, I was just talking about life balance, but many of the opportunities to serve SEAO, your fellow professionals, and the public require relatively little of your precious time while paying a big dividend. My fellow board members have added to my knowledge base in ways that make me more productive with my time and a better engineer.

Along those lines, our next membership dinner meeting on January 27 will include a very interesting program regarding the Hyatt Hotel walkway collapse, an SEAO Committee Information session where you can meet committee chairs and members as well as find information on areas to serve and learn, and an opportunity to mix with and learn from your peers. We hope you will take the opportunity to attend this month and think about involvement in an area of interest. Again, we wish you a happy and fulfilling New Year!

— Gary Lewis

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JANUARY DINNER MEETING ANNOUNCEMENT

WEDNESDAY, JANUARY 27, 2016

MEETING SPONSOR: CONTECH SERVICES, INC.

Topic: Hyatt Regency Hotel Walkway Collapse



Speaker: Glenn Bell

Chief Executive Officer / Senior Principal
Simpson, Gumpertz & Heger Engineers (SGH)
Boston, Massachusetts

Glenn joined SGH in 1975 as a graduate engineer and has continuously advanced in his career to become CEO in 1995. Before he attained his current position he was responsible for major works in all areas of his firm's practice: structural engineering, building technology, and engineering mechanics and infrastructure. Under Glenn's leadership as CEO SGH has grown substantially both in size and service offerings.

Looking for a way to get involved? In addition to our usual dinner schedule, we are hosting a Committee Info Session from 4:45 pm to 5:45 pm, just before the dinner meeting. You can drop in early to find out valuable information about several of our committees, including finding out how to join a committee and contribute to our Chapter. This is a great way to mingle around the room and meet the committee chairs to learn more about what they do. See how you can get involved based on your interests. Please consider coming early to attend this session.

Location: Sentinel Hotel, The Billiard Room, 614 Southwest 11th Avenue, Portland, OR

Committee Info Session: 4:45 pm

Check-in & Social: 5:30 pm

Dinner: 6:15 pm

Program: 6:30 pm

Cost: Dinner and Program: \$32 — Prepaid Members
 \$20 — Prepaid YMF Members
 \$40 — Prepaid Non-Members
 Free — Students

Reservations: Pre-registration is required for all. You can register and pay online at www.seao.org before noon, Friday, January 22. You can also register with Jane Ellsworth via phone at (503)753-3075 or via Email: jane@seao.org. Note: No-shows will be billed.

PDH Credit: One PDH has been recommended for this program.

Meeting Sponsor: Contech Services, Inc.
See Page 8 for additional information.



OCTOBER MEETING RECAP

BY: DEANNA AMNEUS

Topic: Sellwood Bridge

Speaker: Ian Cannon - Program Manager for Multnomah County

The Sellwood bridge is a two lane “high span” bridge located in Portland, OR. The bridge opened to traffic in 1925 and was a part of a larger bridge program that included the Burnside and Ross Island bridges. The Sellwood bridge and others at the time were funded by a local bond measure and built on a narrow spot on the river. The narrowness was partly due to an active landslide on the west bank. After several decades of service, 2+ feet of the superstructure had to be cut to accommodate movement from the landslide in the 1960’s. Shortly after, restricted loads were posted and Trimet had to be taken off the bridge. Because of the slope stability issues, load restrictions, lack of seismic resistance, and the narrow alignment, the Sellwood bridge became a prime candidate for replacement.



The Sellwood bridge project is led Multnomah County, and has a robust project team:

- City of Portland
- Oregon Department of Transportation (ODOT)
- T.Y. Lin International Group - Project manager
- CH2M Hill - Civil engineer
- David Evans and Associates, Inc. - Owner’s representative

A GM/GC approach was chosen for the project to enable collaboration and to ensure a better construction product. The project team came up with a multifaceted solution that incorporates a wider bridge to accommodate bikes and pedestrians, a new interchange, and a design that incorporates rainwater runoff treatment on the site. After public input, a weathering steel deck arch bridge was chosen. Additionally, around 1% of the City of Portland funds are required to go towards art, which translates to \$1 million in public art along the alignment.

As of October 2015 the bridge was approximately 84% complete, and the grand opening is expected fall of 2016. The following are a few construction and design details about the Sellwood bridge.

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.

OCTOBER MEETING RECAP (CONTINUED)

Construction Details:

- Around 10 million lbs of Gr. 50 steel is on the project
- 200ft long rebar cages were used in the drilled shafts with threaded couplers for the bars
- Perched box caissons were used to build the bridge piers
- Gr. 80 No. 18 bars were used in the drilled shafts
- Large bents required cooling tubes to cure the concrete
- The arch rib box section is 70" tall and 2-3ft wide (walkable)
- 63in deep plate girders were used
- The largest arch pick was around 300k lb
- The deck moved up to 6-8" while pouring the deck
- The west end slope stabilization used (43) 6ft diameter drilled shafts and 200k ground anchors

Design Details:

- The clearance height is the same as the old Sellwood bridge
- Pier impact loads were governed by the Portland Spirit
- Live loads were governed by a future streetcar load
- Luminaire supports are designed to support future catenary lines
- Used LARSA design software

Bridge move:

Moving traffic to the temporary bridge was a delicate process, especially since the project team agreed to only 30 days of closures throughout the project. Six of those days were taken to slide the bridge from the existing piers to temporary piers (a process that took around 14 hours). Construction crews used everything from laser monitoring, to tape measures, to GPS systems and strain gages to monitor the move.



<http://www.sellwoodbridge.org/?p=bridge-move-and-detour-bridge>

For more information about the Sellwood Bridge visit:
<http://www.sellwoodbridge.org/>

DESIGN CLASSES AT OSU

PRESTRESSED CONCRETE DESIGN CLASS

SPONSORED BY KNIFE RIVER AND OREGON PRECAST CONCRETE INSTITUTE

CE 486/586 - Prestressed Concrete (3 credits)

Prerequisite: course in reinforced concrete design

Instructor: Dr. Keith Kaufman of Kniferiver

Winter Term: 6-7:30 PM on Mondays and Tuesdays starting January 4th in Kearney Hall on the OSU campus in Corvallis

MASONRY DESIGN CLASS

SPONSORED BY MASONRY INSTITUTE OF OREGON

CE 482/582 - Masonry Design (3 credits)

Prerequisite: course in reinforced concrete design

Instructor: Nathan Wallace of CH2M-Hill

Winter Term: 6-9 PM on Thursdays starting January 7th in Kearney Hall on the OSU campus in Corvallis

Register for these regular university courses that can be used towards a degree or for PDHs.

Admissions and registration information can be found on the OSU web page: <http://oregonstate.edu/>

If you have any questions, please contact Prof. Tom Miller, 541-737-3322 or Thomas.Miller@oregonstate.edu

NEW FISHCAMP RAFFLE FOR YMF!

In the past, a raffle has been held each year for several at-large spots for the SEAO Fishcamp retreat held each fall (early October). This year the board has decided there will be a separate raffle for YMF members. Raffle tickets are earned by attending SEAO meetings and seminars throughout the year with the drawing held around May. This trip is a lot of fun and a great networking opportunity, especially for young engineers.

SEA NORTHWEST CONFERENCE COUNCIL UPDATE

BY: ED QUESENBERRY

At the SEA Northwest Conference in Boise that was held last July, several issues came up at the Delegate meeting on day one, and the Delegate group has been working toward resolution on these issues ever since. I am proud to announce that as of December 21, the issues have been resolved by majority vote. Following is a summary of these issues and outcomes:

- SEA Montana (SEAMT) applied for membership to the NWCC and WCSEA, and was overwhelmingly welcomed. SEAMT agreed to host the 2016 NW Conference in Bozeman, and 2016 happens to be what is called a Round-Up year, when all members of the WCSEA meet at a larger conference that has traditionally been held jointly with another organization. For all conferences, the host organization has access to some rotating funds to assist in conference planning, what is referred to as “seed money”. The seed money for a Northwest Conference is \$10,000, whereas it is \$1,000 for a Western States Roundup conference. It followed then the SEAMT would be given \$1,000 of seed money for the 2016 conference, and given their relatively small membership base and limited financial resources, it was proposed and approved to grant them access to the \$10,000 NWC seed money for the 2016 Round Up Conference.
- There was some discussion about the need to continue with a Round Up every third year. Since this is a WCSEA issue, it was decided that the NWC would set a tentative Northwest Conference schedule, and await word from WCSEA about whether they wanted to perpetuate the Round Up.

- With SEAMT joining the Northwest Council, a new conference schedule had to be developed and approved. Following are the tentative locations for the NW Conferences through 2023:

- 2016-Montana (Round Up)
- 2017-British Columbia
- 2018- Southwest Washington
- 2019- Oregon
- 2020-Washington-Spokane/South Central
- 2021- Washington- Seattle
- 2022- Idaho
- 2023- Montana

The actual conference in Boise was opened after the Delegate Meeting adjourned. The theme of the conference was “Jump into the Future”, and conference attendees had to “jump” between different venues around Boise to attend the technical sessions. The presentations were given at two different hotels located a couple of blocks away from each other, and there were two guided site tours of local projects in construction to choose from in the technical program. This fluid format of the conference kept all attendees energized, and might just serve as a model for future conferences. SEA Idaho should be commended for their efforts in hosting a very fun, informative and successful conference.

Seth Thomas and I would like to thank SEAO for sending us to the 2015 SEA Northwest Conference, and encourage all of you to attend the 2017 event in British Columbia. Details on that event will be published once we get them.

SEER COMMITTEE UPDATE

BY: SHAWN STEVENSON

The SEAO Structural Engineering Emergency Response (SEER) committee has been working to update our roster of post disaster building evaluator volunteers, which includes SEAO’s list of “volunteer emergency responders” and the Oregon State Building Codes Division’s (much larger) list of volunteer responders who have registered with the Building Codes Division. At the beginning of this endeavor, and due to the age of the information on these lists, both lists were in serious need of validating the viability of each entry and getting updated initial contact infor-

mation. To this end, the SEER committee has reviewed over 700 volunteers and we’ve refined our roster to include only active volunteers and their current initial contact information. We are nearly finished with this effort, and our next step will be to send an email link which will allow the SEER committee to obtain additional contact information and training information for each of our volunteers. With a viable database of post disaster resources in place, the SEER committee can begin to shift our focus more on our response phase plan of action.

YOUNG MEMBER FORUM ACTIVITIES

BY: PHILLIP DAVIS

Upcoming YMF Events:

Thursday January 21st – YMF Happy Hour

Location: Kells Irish Pub

Time: 5:30-7:30

Bring a friend or coworker and get to know some other young professionals in the area over food and drinks. Happy hour food provided by SEAO.

Friday February 12th – YMF Lunch Meeting

Location: KPFF Consulting Engineers, 111 SW 5th Ave, 26th floor conference room

Time: 12:00-1:00

Come help the YMF plan our next year and get involved. Lunch provided.

Thursday February 25th – YMF Happy Hour

Location: TBD

Time: 5:30-7:30

Bring a friend or coworker and get to know some other young professionals in the area over food and drinks. Happy hour food provided by SEAO.

Saturday March 12th — YMF Winterhawks Game

Location: Veterans Memorial Coliseum

Time: 7:00

Once again the YMF will be getting a group of tickets and attending a Portland Winterhawks Game. This is the third year we have done this, and the two previous years have been a lot of fun. If you want to come, email Philip.Davis@kpff.com and let me know how many tickets you need. The cost is approximately \$20 per ticket and will be finalized once we have the final headcount.

YMF Website Info:

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

Please visit our website for more information on YMF events and information.

SEISMIC EVENTS

[ASCE Webinars \(www.asce.org\)](http://www.asce.org)

Tuesday, January 26, 8:30 AM—10:00 AM PT.

Seismic Design of Curtain Wall Systems

NCSEA WINTER LEADERSHIP FORUM

MARCH 10 & 11, 2016

SAVE THE DATE! The NCSEA Winter Leadership Forum at the Coronado Island Marriott in San Diego, CA is in March. The Forum draws principals and leaders from a diverse group of structural engineering firms to engage in thought-provoking sessions, roundtables, and networking.

See page 13 for more information on the Forum programs and speakers.

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.

THE SEAO SEISMIC COMMITTEE AWAKENS

BY: REID ZIMMERMAN

I have recently taken over as chair of the SEAO Seismic Committee as Chad Kilian, our past chair, steps down. A big thank you to Chad for his leadership of this committee over the past several years. My first order of business as chair is to apologize for using a Star Wars reference to hook you into reading this. I even admit to not having seen the most recent movie yet. Since I suspect hearing about my movie preferences is about as interesting as listening to a defense of the cinematic qualities of Episodes I through III, I will move on.

The SEAO Seismic Committee will focus on the following goals in 2016. Other suggestions for topics are welcome.

Short Range Goals

Increase committee membership – If you are interested in joining our committee, please send me an email at reid.zimmerman@kpff.com. You are also welcome to stop by the Seismic Committee's table at the SEAO Committee Night being held later this month.

Bring in speakers – Speakers will present on new research and emerging topics in earthquake engineering.

Greater presence in the SEAO newsletter – While you have undoubtedly seen the Seismic Events featured in past newsletters (a project championed by Christopher Pitt and Chad Kilian of our committee), we hope to expand our contributions to the newsletter through more regular updates of our committee's progress.

Mid- to Long-Range Goals

City of Portland's Mandatory Unreinforced Masonry (URM) Building Ordinance – The City of Portland is considering the mandatory seismic retrofit of URM buildings within the city limits. As a committee, we will first review the technical requirements currently proposed and then create a plan for developing informational materials to support its implementation (if the ordinance successfully passes). See <https://www.portlandoregon.gov/pbem/66306> for more information.

Seismic Retrofit of Single-Family Wood Buildings – As a result of the New Yorker Article, there has been a rapidly growing interest by homeowner's in seismically retrofitting their home. Many jurisdictions, including the City of Portland, have prescriptive methods which allow homeowner's to seismically

retrofit their house without employing an architect or engineer. See <http://www.portlandoregon.gov/bds/53562> as an example. As a committee, we will first collect and review new recommendations for retrofit of single family wood dwellings, especially the recommendations which have come out of the recent Napa, CA earthquake. Secondly, we will publish a primer for homeowner's directing them to the appropriate resources and information. We may also consider a short white paper with recommendations for updating the City of Portland's prescriptive methods.

If any of the above endeavors are of interest to you, or if you are passionate about another seismic topic, I encourage you to join the SEAO Seismic Committee. Our first meeting in 2016 will be held on Thursday, February 11th. We will then meet monthly or every-other-month depending on level of involvement. Call-in information for each meeting will also be provided for those who cannot attend in person.

May the Force be with you.

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IBC CODE INFORMATION

EXCERPT FROM 2012 IBC HANDBOOK

2306.2 Wood-frame diaphragms.

The term diaphragm refers to horizontal or sloping panel elements that resist and distribute lateral forces. (Vertical panel elements that resist lateral forces are termed shear walls.) See Section 202 for definitions of various types of diaphragms and diaphragm components. The title of Section 2306.2 was changed to apply to all wood-framed diaphragms and the section references the SDPWS for their design. The specific sections covering diagonally sheathed lumber diaphragms were deleted in the 2012 IBC because their design provisions are included in the SDPWS.

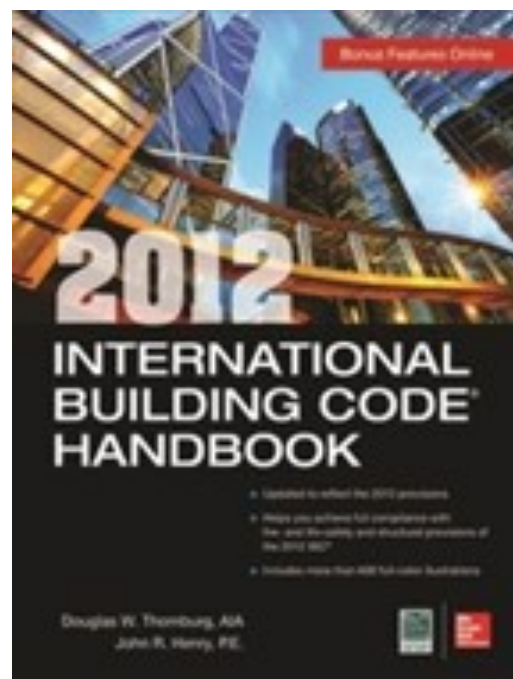
Tables 2306.2(1) and 2306.2(2) contain values for diaphragms fastened with staples because the SDPWS does not address stapled diaphragms. Nails were deleted from the diaphragm tables in the 2012 IBC so the tables only contain design values for staples. The design values given in the tables are based on Douglas Fir-Larch or Southern Pine framing. When the framing lumber is of a species other than Douglas Fir-Larch or Southern Pine, the tabular values must be adjusted to account for the fastener behavior in framing members of other lumber species. The adjustments must be made in accordance with Footnote a of the table.

The high-load diaphragm table was added to the 2003 IBC. High-load diaphragms are required to have special inspection in accordance with Section 1705.5.1, as indicated in Footnote g of the table. The footnote was added to the table as a cross reference to Chapter 17 so that code users are aware of the requirement for special inspection for high-load diaphragms. When the high-load diaphragm table was first added to the IBC, the figures that illustrate the nailing patterns at panel joints were inadvertently left

out of the code. These figures have been part of the APA high-load diaphragm table for over two decades. The figures show the various multi-row fastening patterns, required spacing, and staggering. These fastening diagrams are intended to clarify proper application of the table and are essential to develop the diaphragm shear values listed.

The last footnote in the diaphragm and shear wall tables [Table 2306.2(1), Table 2306.2(2), and Table 2306.3(1)] was added in the 2006 IBC to provide the necessary factors to convert table values for shear loads of normal or permanent load duration as defined by the NDS. The factors reflect the fact that the values in the tables have a built-in load duration factor of 1.6. As such, to convert to a normal load duration of 1.00, the tabular value must be by 0.63 ($1.6 \times 0.63 = 1.00$). To convert to a permanent load duration of 0.90, a factor of 0.56 must be used ($1.6 \times 0.56 = 0.90$).

This excerpt is from the 2012 International Building Code Handbook, authored by John Henry, PE and Doug Thornburg, AIA. The book is available at iccsafe.org/store. Use ID # 4000S12.



EMPLOYMENT OPPORTUNITIES

KPFF CONSULTING ENGINEERS

Experienced Structural Engineers and Entry-Level Structural Engineers

KPFF Portland is looking for Experienced and Entry-Level 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 engineers 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

Entry-Level Structural Engineer Apply Here: http://chc.tbe.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=151

HOLMES CULLEY

Structural Engineer San Francisco and Los Angeles, CA

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

VLMK ENGINEERING + DESIGN

Structural Engineer Portland, OR

VLMK Engineering + Design is seeking a Structural Engineer with 0 to 4 years of experience who is passionate about engineering and wants to broaden their experience working in a collaborative, multifaceted environment with a variety of project and building types. If you think this might be you, please see the full posting on our website at www.vlmk.com for additional requirements and the benefits of joining VLMK. If you have questions, please feel free to contact Trent Nagele at trent@vlmk.com.

DCI ENGINEERS

Structural Project Engineer Portland, OR

DCI Engineers is a leading structural and civil engineering firm with a diverse portfolio of project types and clients. Our various offices along the west coast and in Texas provide unique and challenging opportunities for our employees to gain experience and develop expertise at a rapid pace. In addition, our vibrant company culture promotes a collaborative approach to design and focuses on providing a rewarding work environment for employees. DCI is also proud to offer a diverse array of benefits to those who are a part of our team. Please check out our website at www.dci-engineers.com to learn more about our company culture, project types, and our focus on service, innovation, and value.

DCI Engineers is currently seeking a Structural Project Engineer with a minimum of three years of experience for our Portland office. Working knowledge of steel, concrete, wood and masonry design is desired. Our focus on client service makes good communication and customer service skills a must. The position will involve the design of all categories of seismic and gravity framing systems for every building and material type.

Structural Engineering degree from an ABET accredited university preferred. Please indicate the position and office location to which you are applying for in your cover letter.



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

52nd Annual E-Week High School Program

YOU are an essential part of the 52nd Annual Engineers Week Program.

The 52nd Annual Engineers Week High School Program is coming:

Date: Thursday, February 25, 2016

**Location: Lloyd Center DoubleTree by Hilton Hotel
1000 NE Multnomah Street, Portland**

Pre-Banquet Events: The Exhibit Hall & Student Seminars will be open from **4 – 6:15 PM** for students, teachers and engineers.

The Annual Engineers Week High School Banquet begins at 6:30 PM. All sponsor engineers are encouraged to attend – this is the best opportunity to talk to students and share what you love about being an engineer!

To participate at E-week:

- Send in the attached form and a sponsor check (see details on next page).
- Email Tova Peltz at tova.r.peltz@odot.state.or.us for online registration and payment information.
- We will contact you with additional day of the event information.

***THANK YOU ! We look forward to seeing
you in February!***

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, 2015.

E-week Registration

Company Name: _____

Contact Name: _____

Email Address: _____

Phone Number: _____

Sponsor level - check one:

- ☐ Platinum \$2,000
- ☐ Gold \$1,000
- ☐ Silver \$500
- ☐ Individual \$75
- ☐ 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 ODOT Construction, 6000 SW Raab Road, Portland OR 97221.

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

Save The Date

2016 WINTER LEADERSHIP FORUM



MARCH 10 & 11 Coronado Island Marriott San Diego, CA

The NCSEA Winter Leadership Forum draws principals and leaders from a diverse group of structural engineering firms to engage in thought-provoking sessions, roundtables, and networking. This two-day Forum will feature top-notch, thought-provoking speakers and case studies.

In 2016, the Forum will focus on managing risk professionally, collaboratively and transparently. The first day will consist of interactive discussions on managing the various risks every firm faces every day. The second day will be a discussion of the various risks faced on projects and some of the preventative measures you can take. Three to four presentations of actual claims will be presented, with a discussion of what went wrong (if anything) and how some of these claims could have been avoided.

ON THURSDAY, LOOK FOR:



Legal advice, as well as give and take, on how to achieve your business objectives while minimizing the risks of litigation. Topics will touch on labor and employment law for managers, discrimination in the workplace, leveraging the hiring process to find the best candidates, background checks, best practices for conducting internal investigations, and more. Speaker: Attorney Staci Ketay Rotman

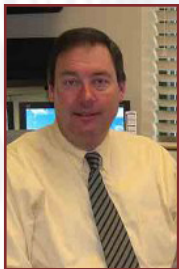
Staci Ketay Rotman is a partner in the Labor & Employment Practice Group at Franczek Radelet P.C. She advises and represents employers in all aspects of labor and employment law and has represented clients before federal and state courts and administrative agencies, as well as in arbitration proceedings. Staci has extensive experience in connection with employment discrimination, sexual harassment, wrongful discharge, leave management, employee accommodation, restrictive covenants, employment related torts, employment policies and agreements, reductions in force, I-9 compliance and other workplace issues.

A Q&A Workshop-type format on the pros, cons, and financial implications of the various project delivery methods. This will be an informative 'conversation' about specific advantages/disadvantages, where you will have the opportunity to take away information tailored to your particular needs. Case examples for each delivery method will be covered, as time permits. Speaker: Dale Munhall, AIA



Dale Munhall, AIA, is Director of Construction Phase Services for Leo A Daly at their national headquarters office in Omaha. He is a registered architect, certified by the National Council of Architectural Registration Boards (NCARB), and is a LEED Accredited Professional. During his four decade career he has developed a unique perspective on the entire project delivery process via his early experience as a construction manager and field superintendent and as a real estate broker and part-time building code official. He actively serves on committees of the American Institute of Architects (AIA) and the Design-Build Institute of America (DBIA), and he has written and made national presentations on various aspects of design and construction.

ON FRIDAY, LOOK FOR:



An exploration of the differences in E & O insurance policies and how to conform to insurance requirements. Have your questions answered on Best Ratings, prior acts coverage, pre-claim assistance and cost, whether coverage is limited to the settlement amount if the insured refuses settlement, and more.

Speakers: Dan Bradshaw, insurance agent, and Craig Coburn, attorney.

Dan Bradshaw is president at Benchmark Insurance Agency in Bountiful, Utah, and a past president of the Professional Liability Agents Network (PLAN). He specializes in risk management for designers, architects, and engineers, contract review, and professional liability/errors and omissions insurance.

Craig Coburn is an attorney and shareholder at Richards Brandt Miller Nelson. He is chair of the firm's construction industry services and mediation/arbitration services groups and teaches at the University of Utah College of Engineering.







Claims Sharing: Three firms will present what happened to them when they were sued for professional negligence. They will tell their stories about the projects, the allegations, the outcome and the lessons learned; but the outcome and lessons learned will not be revealed until after WLF attendees have had their own opportunity to predict the outcome.

Moderator: John Tawresey, SE

Speakers: Seasoned [been sued] structural engineers and defense counsel

John Tawresey has over 47 years of experience as a structural engineer and was the Chief Financial Officer at KPFF Consulting Engineers for 38 years. He participated in the growth of KPFF from a 50-person firm to the 900-person firm that it is today. He is also a past president of the Structural Engineers Risk Management Council (SERMC) and past chair of the SERMC Claims Committee.

MASONRY SOLUTIONS

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		✓		✓		✓		✓				✓	
 UNGROUTED CMU		✓	✓				✓	✓	✓	✓	✓	✓	✓
		ESR-3200										ESR-3275	
		✓										✓	
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