



CONNECTIONS

May 2018 Volume 18 Issue 5

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).



Upcoming SEAO Meetings and Events:

Thursday, May 24, 2018: YMF Webinar/Happy Hour

Location: Mackenzie, 1515 SE Water Ave. Suite 100, Portland, OR 97214

Time: 5:30pm

See page 7 for additional YMF information.

Wednesday, May 30, 2018: SEAO/SEI Joint Meeting

Topic: The Future Development of Performance Based Design for Seismic, Wind, Fire Protection and Other Loadings

Speaker: Ronald O. Hamburger

Location: Kells Irish Pub, 112 SW 2nd Ave. Portland, OR 97204

Time: 11:30am - 1:00pm

See page 3 & 18 for additional information.

Thursday, June 7– Friday, June 8, 2018: CASE Workshop

Topic: The Business of Structural Engineering

Location: Anaheim, CA

See page 13 for additional information.

Wednesday, July 18, 2018: SEAO/OACI Golf Tournament

Location: The Reserve (south course), 4805 SW 229th Ave. Aloha, OR

Time: 1:00pm Shotgun start, 6:00pm Social hour, 6:30pm Dinner & Awards

See page 11 for additional information.

Wednesday, August 1– Saturday, August 4, 2018: SEA NW 2018 Conference

Topic: Knowledge is Power

Location: Richland, WA

See page 17 for additional 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.

Send membership inquiries to:

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Portland, OR 97219

BOARD OF DIRECTORS

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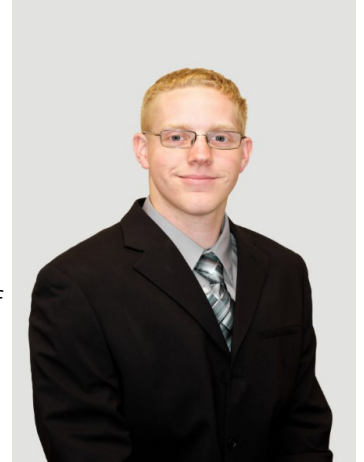
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Jane Ellsworth
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jane@seao.org

PRESIDENT'S MESSAGE: BOARD POSITIONS AVAILABLE

SEAO Members,

As I pondered what to write for my president's message this month I thought back to through my involvement with SEAO. I started by attending a few meetings as a young engineer and I remember feeling like I was the youngest person in the room. The first few times attending I remember just talking to a few co-workers instead of mingling with others. After about a year of attending meetings occasionally I was approached and asked if I wanted to help restart SEAO's Young Member Forum – I was persuaded that it would be a great way to get involved with SEAO and meet other young engineers in the area.



I accepted and the SEAO YMF was reborn. It took a while but the group gained traction and started getting involvement from engineers from multiple firms. After several years the group grew and became more established and eventually leadership has moved to new "younger" members. Through my involvement with the YMF and the national NCSEA young member support committee I believe my career has greatly benefited from my involvement in these groups.

For young engineers and employers of young engineers I would strongly recommend all of the young engineers out there to join SEAO and get involved in the Young Engineers Forum. The YMF is a great opportunity for young engineers from different firms to meet other people who are at a similar point in their career. Deanna Kuhlman has been doing a great job leading the YMF for the past few years. The YMF has monthly networking events (happy hour) for young engineers to socialize outside of the office. In addition the YMF does site tours, technical tours and other educational events (such as PE review sessions). I would encourage all of the young engineers reading this to check out the YMF events calendar on page 7. For employers reading this I would strongly recommend you to encourage your young engineers to get involved. The benefits of involvement in the YMF extend past the engineer – the employer will benefit from an engineer's involvement as well.

I hope to see everyone at the next YMF event!

-Seth Thomas

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Snow Load
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Code
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Vintage Building
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STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

Dave Tarries
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PROGRAM COMMITTEE

Monthly Meetings
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Golf Tournament
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Conferences
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Engineers Week
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Young Member Forum
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CONTINUING EDUCATION COMMITTEE

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MEMBERSHIP COMMITTEE

Newsletter
Deanna Kuhlman

Roster
Jane Ellsworth
jane@seao.org

DELEGATES

NCSEA & WCSEA/NWC
Seth Thomas

MAY LUNCH MEETING

WEDNESDAY, MAY 30, 2018

TOPIC:

The Future Development of Performance Based Design for Seismic, Wind, Fire Protection and Other Loadings

SEI/SEAO Annual Joint Meeting with a very special guest speaker: Ronald O. Hamburger. He will discuss "The Future Development of Performance Based Design for Seismic, Wind, Fire Protection and Other Loadings". Why is Performance Based Design important to the profession? How will it change current engineering practice?

PRESENTER BIO:

Ron Hamburger—Senior Principal SGH

Ron joined SGH in 2002 with more than thirty years of experience in civil and structural engineering; building design, investigation, and code development; and research. He is an internationally recognized expert in earthquake-resistant design and structural performance evaluation and is widely recognized in the structural engineering community for his leadership in performance-based design.



DETAILS:

Location: Kells Irish Pub, 112 SW 2nd Ave. Portland, OR

Time: 11:30 am — Check in

Cost: \$35 — Prepaid Members

11:45 am — Lunch

\$25 — Students

12:00 pm — Program

Reservations: Pre-registration is required for all.

You can register and pay online at www.seao.org before noon, Friday, May 25. 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.

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.

2018 SEAO AWARDS ENTRY

DUE: JUNE 30TH 2018

SEAO is now accepting entries for the fourth annual Structural Engineer Awards Presentation to acknowledge outstanding projects and structural engineering advancement. This year we are opening the access to prepare the submissions earlier so that more time is provided to the membership to gather their submission materials. Projects are not limited to an Oregon location—you only need to be an SEAO member to submit a project.

Projects will be judged by a panel of invited judges from multiple fields related to design and construction and will be based on innovative design, engineering achievement, and creativity. Awards will be presented at the September Chapter Dinner meeting on September 26, 2018.

Submission Categories:

- New Buildings Under \$10 million
- New Buildings Over \$10 million
- Renovation/Retrofit
- Special Use Structures

The instructions for submission and the fillable entry form are available on the SEAO website on the Awards Committee page and through the following link: [Awards Submission Instructions and Entry Form](#).

All submissions must be post-marked or emailed by **June 30, 2018**.



2017 Award Winner

Trent Nagele of VLMK Consulting Engineers Receiving Their Firm's Award for Project Under \$10 Million
From SEAO Awards Committee Chair, Brynn Adkins.
Athey Creek Christian Fellowship

THE SE3 PROJECT

The NCSEA Structural Engineering Engagement and Equity (SE3) Committee is currently administering a nationwide survey of structural engineering professionals. This survey is designed to provide valuable information about the profession regarding demographics, compensation, satisfaction, and engagement. **It will be one of the largest comprehensive nationwide surveys of structural engineering professionals to date.**

How this started

This project began in 2015 when SEAONC (Structural Engineers Association of Northern California) funded a committee to study engagement and equity in the structural engineering profession. In 2016, this group administered their first national survey of over 2,100 structural engineering professionals. Findings from this study included insight into why engineers leave the profession, the importance of mentorship, and the existence of a nuanced gender pay gap. A list of best practices was developed based on these findings, all of which can be found in the [2016 SE3 Survey Report](#).

NCSEA SE3 Committee

In mid-2017, an SE3 Committee was created at the national level through NCSEA (National Council of Structural Engineers Associations) with the primary goal of administering a similar nationwide study of structural engineering professionals every two years. This biennial survey will focus on measuring engagement and equity with the goal of providing data and best practices to help ensure that every structural engineering professional has a positive experience within the profession.

Member Organization (MO) Participation

SEAO Member Input is Essential to the SE3 Survey!

The 2018 version of this survey is live now through the end of May. If you'd like to participate, a link to the survey is available on the SE3 website at ncsea.com/committees/se3.



THE SE3[≡] PROJECT
STRUCTURAL ENGINEERING, ENGAGEMENT, AND EQUITY

APRIL MEETING RECAP

BY: SARAH VAN OTTERLOO

TOPIC: Concrete Repair

Speaker: Craig Schumann, BASF Restoration Specialist

The method utilized to repair concrete often depends on the cause of the concrete damage, because the repair should help to mitigate the underlying issues that caused the damage in the first place. Therefore, the cause of the damage should be identified before initiating the repair.

Some common causes of concrete damage that require remediation are as follows:

- Alkali-Silica Reactivity
- Freeze-thaw damage
- Reinforcing steel corrosion
- Abrasion or Erosion
- Chemical attack
- Construction defects (such as improper placement of reinforcing or honeycombs & voids)
- PT cable repair

One of the most common types of concrete repair is the mitigation of reinforcing steel corrosion. Reinforcing steel corrosion can occur when the embedded steel is exposed to chloride ions. The resulting rust expansion can cause cracking and eventual spalling of the concrete as the reinforcing steel expands 5 to 8 times its original volume. Mitigation of this type of concrete damage involves removing the contaminated corroded steel, drying it out, and then applying a repair strategy. The repair strategies vary and can include some of the following: applying increased concrete cover, applying protective sealers or coatings, applying a corrosion inhibitor, or using cathodic protection by way of galvanic protection – anodes.

Cathodic protection works by utilizing the anodic ring effect. The anode protects areas adjacent to the concrete patch and are typically composed of high purity zinc. These repair can be more costly, however, the anodes have a service life of 10 to 20 years depending on corrosion rates, steel mass, and corrosion potential that the concrete is exposed to.

Surface applied corrosion inhibitors can be cost effective and efficient for repairing large areas. Some surface applied solutions also act in a dual function as a water repellent.

Concrete repair fundamentals boils down to four steps. One, conduct a condition assessment and determine the cause of damage. Two, demo and prep the surface to receive repair method. Three, apply chosen repair solution. And, four, protect the repaired region from additional damage causing agents. It is important to remember to cure the repair.

Both the ACI and the ICRI has reference manuals and guidelines for repair procedures and applications. The American Concrete Institute has produced an updated code (ACI 562-16) for the code requirements for assessment, repair, and rehabilitation of existing concrete structures, which serves as a specific guide for engineers. The ACI 562-16 can function in conjuncture with the IBC or as a standalone code. The International Concrete Repair Institute has free technical guides as well as a certification program for contractors to train installers in various repair methodology.

YOUNG MEMBER FORUM ACTIVITIES

Upcoming YMF Events:

Thursday May 24th – Webinar/Happy Hour

Location: Mackenzie, 1515 SE Water Ave. Suite 100,
Portland, OR 97214

Time: 5:30pm-7:30pm

This month we are going to break from the norm- the happy hour is going to be combined with a webinar viewing!

The topic will be “How the AISC 360-16 Chapter K Changes Affect HSS Design.” This is a recorded NCSEA webinar that aired on May 8th. See link for more info:

<https://www.pathlms.com/ncsea/courses/6882>.

- Pizza will be provided by SEAO and beer will be provided by Mackenzie.
- Please RSVP by 5/21/18 so we can get an accurate headcount. Email Deanna Kuhlman.
- Parking is available in the River East Center parking lot.
- Time permitting, we will have a quick discussion after the webinar.

2018 Structural Engineering Summit:

Scholarships are available for younger members to attend the NCSEA Structural engineering Summit. The scholarship includes a registration fee and a travel stipend for new attendees.

<https://ncsea.submittable.com/submit/111611/2018-young-member-summit-scholarship>

seao.org/committees/advocacy/ymf

NCSEA MEMBERSHIP UPDATES

Please note that Jane is now able to update your status on the NCSEA database! If you update your address please send an email to jane@seao.org so you can get your Structures Magazine!

SEER COMMITTEE

SEER Committee Update, May 2018:

The SEER committee is still focused on confirming a system at the state level in Salem that allows for qualified volunteers to be used by jurisdictions for post-earthquake building inspections. We have made progress, but it has been slow. We have been working with AIA and ASCE to push this cause and have recently connected with the Oregon Building Official's Association (OBOA). State organizations such as the Office of Emergency Management (OEM) and the Oregon Seismic Safety Policy Advisory Commission are on board and we continue to work with them to make any changes necessary in Salem.

We are still looking for any individuals who would like to be involved with emergency response. If you are interested in being on the committee, would like to know more about training opportunities, or just have questions about emergency response, please contact David Tarries at seer@seao.org.

NEW MEMBERS

The new SEAO members for April are:

- Randy Robins – Norbord
- Tristan Anderson—Hart Crowser
- Devin Drake—Kramer Gehlen

Welcome to SEAO!

Our goal is to provide benefit to our members and the best way to do that is get involved! Watch the emails, newsletters, and website for more information!

EMPLOYMENT OPPORTUNITIES

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 contact Trent Nagele at trent@vlmk.com.

PCS Structural Solutions

Structural Engineer– Project Manager

Portland, OR

PCS Structural Solutions is a single-discipline structural engineering firm with a national reach. Our firm utilizes a corporate structure unlike any other in the Northwest - single discipline with one passion, process, server, and culture. Come join us in our Portland office! PCS Structural Solutions is seeking a Project Manager.

Qualifications include:

- Master's degree in Civil Engineering from an accredited college or university
- 6-10 years of experience with all building materials and project types preferred
- Excellent technical, communication and management skills
- Working knowledge of concrete, steel, wood, and masonry design preferred
- PE, SE preferred
- Excellent knowledge of Microsoft Office suite
- Preferred knowledge of Revit

Please send your resume to resumes@pcs-structural.com

Lund Opsahl

Structural Engineer

Seattle, WA

Lund Opsahl is located across the street from Safeco Field, Lund Opsahl is a growing structural engineering firm that provides a wide spectrum of services, including planning, design, seismic and damage assessments, upgrades, additions, tenant improvements, and construction support for a variety of new and existing building types in the Pacific Northwest. Our reputation as creative innovators and technical experts is built on responsive service, collaborative teamwork, and lasting relationships. Our firm's size offers early opportunities to work on challenging projects and encourages exciting career growth uncommon at larger firms, especially for the ambitious.

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.

Structural Engineers of all skill levels are encouraged to apply. Please visit our website, www.lundopsahl.com for additional information and job descriptions. Inquires and resumes may be sent to careers@lundopsahl.com.



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

9220 SW Barbur Blvd, #119, PMB #336, Portland, OR 97219

503.753.3075

www.seao.org E-mail: jane@seao.org

2018 Excellence in Structural Engineering Awards

The Structural Engineers Association of Oregon (SEAO) Excellence in Structural Engineering Awards was created to acknowledge outstanding projects and structural engineering advancement by members. The fourth annual SEAO Awards will be recognized as a part of the September 26, 2018 dinner meeting and awards ceremony.

Eligibility Requirements:

1. Project must have completed construction during the calendar year of 2017 or 2018.
2. At least one member of the design team, research team, or a principal of the firm responsible for entry must be a member of SEAO.
3. Entries may be of any size, type, and location in the world.
4. Projects may be submitted into one category only.
5. Each company may submit up to two projects per category (8 projects total).

SEAO Judging Criteria:

Projects will be judged by a panel of invited judges from multiple fields related to design and construction based on the following criteria:

1. Creativity of structural design
2. Complexity of design criteria
3. Ingenuity of design for efficient use of materials and construction
4. Fulfillment of client's / owner's needs or expectations
5. Suitability of the structure for its environment

Entry Instructions:

All entries must include the following:

1. Completed entry form on following page, including signature. Please enter all information as they would appear on an award.
2. Project Summary:
 - a. A written summary of the project emphasizing any outstanding accomplishments achieved and hurdles overcome during the course of the project's duration.
 - b. Two pages of text maximum, (10.5 point font minimum, 1.5 line spacing), plus one optional additional page for photos and figures at the end of the summary. Architectural renderings will not be considered and should not be included with the summary. Figures showing structural analysis or structural drafting models and details (Revit, AutoCAD, etc.) are allowed.
 - c. Summary must not include names of participating firms or project team members to allow for impartial judging. Any included names will be removed prior to judging.
 - d. Do not include any confidential or sensitive information.
3. Provide up to 15 photos (per project entry). If entry is mailed, provide a separate CD/Flash drive with all photos and figures. If entry is emailed, provide a separate Zip file attachment of .jpg images. Renderings will not be considered.
4. \$125 Entry Fee (per entry). Please make checks payable to SEAO and mail check as noted at bottom of entry form.
5. Multiple entries may be mailed together (and paid by single check). Refer to entry form for mailing address. If entries are emailed, send each entry in a separate email to the email address provided at the bottom of the entry form.
6. All entries shall become the sole property of SEAO. SEAO reserves the right to use or publish some or all entry material in publications. By entering, the Entrant grants a royalty-free license to SEAO to use any copyrighted material submitted. Such right includes publication of photographs and names of award recipients without compensation to Entrants.
7. **Submissions must be post-marked or emailed by June 30, 2018.**



STRUCTURAL ENGINEERS ASSOCIATION OF OREGON

9220 SW Barbur Blvd, #119, PMB #336, Portland, OR 97219

503.753.3075

www.seao.org E-mail: jane@seao.org

2018 Excellence in Structural Engineering Award Entry Form

Project Information:

Project Name:

This project is to be judged under the following category (select **one**):

New Buildings Under \$10M

Renovation / Retrofit

New Buildings Over \$10M

Special Use Structures

**Note: The SEAO Awards Committee reserves the right to transfer projects into a different category as it sees fit*

Project Location: City:

State:

Total Construction Budget:

Completion Date:

Entering Firm: (contact must be a current member of SEAO)

Please complete all sections of the form below. This information may be used for publicity purposes.

Firm Name:

Address:

City:

State:

Zip:

SEAO Contact Name:

Contact Email:

Phone:

By signing below, I accept responsibility for any issues regarding project confidentiality agreements.

→ **Signature:**

Involved Entities:

Owner/Developer:

General Contractor:

Architectural Firm:

Geotechnical Firm:

Civil Firm:

MEP Firm:

Other:

Role:

Submission Checklist:

Entry Form

Project Summary (see entry instructions)

CD/flash drive for mailed entries or separate email
attachment w/up to 15 photos/images

Check for \$125 per entry made payable to SEAO

Mail all materials to:

SEAO Awards

Structural Engineers Association of Oregon

9220 SW Barbur Blvd, #119, PMB #336

Portland, OR 97219

Or Email all materials (10 MB maximum
per email) to:

seao.excellence.awards@gmail.com

Submissions Must Be Post-Marked or Emailed By June 30, 2018

2018 SEAO / OACI GOLF TOURNAMENT



**\$20,000
HOLE IN ONE
PRIZE!**

JULY 18TH, 2018
The Reserve
Vineyards & Golf Course
1:00 PM - SHOTGUN START!

EVENT DETAILS:

You're invited to the 2018 S.E.A.O. and O.A.C.I. Golf Tournament at the Reserve's South Course in Aloha, just outside of Hillsboro, OR! Come join us for another year of incredible golfing, fun, prizes and dinner! Last year's North Course tournament was such a success, we wanted to recreate the magic, but mix it up with the lush, varied South Course.

Designed by John Fought, a Portland native and former PGA Tour pro whose design credits include four Top 100 courses, The South Course is a traditional American layout with mature stands of Oregon trees, naturally rolling terrain and 114 gleaming white sand bunkers waiting to swallow errant shots. Strategy and deception combine with pure aesthetic pleasure on this par 72 track, measuring from 5,189 to 7,172 yards.

There will be a shotgun start at 1pm, capped with an on-site dinner, beverages, and prizes for participants and their teams.

We look forward to seeing you at yet another fantastic golf tournament!

WHEN:

DATE: Wednesday, July 18th
SHOTGUN START: 1:00PM
SOCIAL HOUR: 6:00PM
DINNER & AWARDS: 6:30-7:30PM

TOURNAMENT:

4-Person Scrambles

CONTACT:

Jane Ellsworth
ph: (503) 753-3075
em: jane@seao.org

Don't forget to bring money for the raffle prizes and string! This year's raffle prizes will be:

- 50" TV
- Apple Watch
- Apple iPad Mini
- Traeger Grill
- Ocean Fishing Trip for 4
- YETI 65 Cooler
- Quadricopter Drone
- Much more!

WHERE:

The Reserve (South Course)
4805 SW 229th Ave.
Aloha, OR 97007
Phone: (503) 649-8191

DINNER:

A barbecue dinner, will be served after the tournament on-site.

FEES:

Golf & Dinner: \$150/person
(Includes golf cart & driving range)
SEAO Young Members Forum: \$85
Mulligan: \$5/ea

Appropriate "Country Club" attire is required:

- Collared Shirts
- No Denim
- Shorts must have a 6" inseam
- Soft spikes only

**NO REFUNDS FOR
CANCELLATIONS AFTER JUNE 27th**

PLEASE RETURN THIS ENTRY FORM BY JUNE 27th TO:

S.E.A.O.

9220 SW Barbur Blvd. #119

PMB #336

Portland, OR 97219

(503) 753-3075 Phone

(503) 214-8142 Fax

Player Names

Green Fees

Membership

Payment Enclosed

☐ Golf & Dinner - \$150 ☐ SEAO ☐ OACI \$_____

☐ Golf & Dinner - \$150 ☐ SEAO ☐ OACI \$_____

☐ Golf & Dinner - \$150 ☐ SEAO ☐ OACI \$_____

☐ Golf & Dinner - \$150 ☐ SEAO ☐ OACI \$_____

Included: 1 (one) five-foot string per group.

Mulligan Add-Ons (1 Mulligan = 1 Shot Per Person)

☐ Check Enclosed

☐ Mulligans - \$5 ea (Limit 5 Per Foursome) _____ Qty \$_____

☐ VISA / ☐ MasterCard / ☐ AMEX Accepted

Total \$_____

Name On Card: _____ **Card #:** _____ **Exp. Date:** _____

Contact Number: _____ **Billing Zip Code:** _____ **3-Digit Code On Back Of Card:** _____

2018 SEAO / OACI GOLF TOURNAMENT



JULY 18TH, 2018
1^{PM} Shotgun Start
The Reserve
Vineyards and Golf Course

Contact Info:
Jane Ellsworth
(503) 753-3075
oaci@comcast.net

SPONSORSHIP FORM

Company Name: _____

Contact Name: _____

Phone: _____ Fax: _____

Email: _____

HOLE SPONSORSHIP *(choose any or all of the following)*

- | | | |
|--|---|--|
| <input type="checkbox"/> CORE SPONSORSHIP - \$250
Comes with individual tee signage and recognition at the on-site dinner. | <input type="checkbox"/> PREMIUM SPONSORSHIP - \$500
Complete tee setup at of one of three available, 3-par holes and recognition at the on-site dinner. (Only available to 3 sponsors) | <input type="checkbox"/> PLATINUM SPONSORSHIP - \$4,000
Join the SEAO and OACI with a single, co-title sponsorship of the tournament. Includes registration for four, and distinct recognition from SEAO/OACI at the on-site dinner. |
|--|---|--|

WE THANK YOU FOR YOUR SUPPORT!

If you or your company would like to sponsor more than the above hole sponsorships, please check any of the additional sponsorship items below, or the option to sponsor/donate your own raffle prize:

RAFFLE PRIZE SPONSORSHIPS

- ☐ 50" TV | \$600
- ☐ Apple Watch | \$400
- ☐ Apple iPad Mini | \$500
- ☐ Traeger Grill | \$600
- ☐ Ocean Fishing Trip for 4 | \$600
- ☐ YETI 65 Cooler | \$400
- ☐ Quadricopter Drone | \$300
- ☐ Power Washer | \$500
- ☐ Escape Room for 4 | \$120

SPECIAL SPONSORSHIPS

- ☐ LD/KP/Long Putt Hole Sponsor
\$150
- ☐ On Course Drink Refreshment Sponsor
\$400 *(Host drink cart for one beverage per participant to be redeemed during play)*
- ☐ Tee Off Sponsor
\$250 *(Host keg of Micro-brew)*
- ☐ 19th Hole Sponsor
\$250 *(Host keg of Micro-brew)*
- ☐ Golf Cart Sponsor
\$200 *(Host the golf carts with a sign in each cart with your company name)*
- ☐ Scorecard Sponsor
\$200 *(Host the scorecards with the name of your company on each card)*

Would you like to sponsor/donate your own raffle prize? (ex: Mariner's seats, Blazers seats, etc)

☐ NO ☐ YES, Please describe below:

☐ Check Enclosed

☐ VISA / ☐ MasterCard / ☐ AMEX Accepted

Name On Card: _____ Card #: _____ Exp. Date: _____

Contact Number: _____ Billing Zip Code: _____ 3-Digit Code On Back Of Card: _____

Total \$ _____

Please Return This Form A.S.A.P. to:

S.E.A.O.
9220 SW Barbur Blvd., Suite #119, PMB #336
Portland, OR 97219
Email: oaci@comcast.net

THURSDAY, JUNE 7 – FRIDAY, JUNE 8, 2018 • ANAHEIM, CA

THE BUSINESS OF STRUCTURAL ENGINEERING

An intensive workshop for structural engineering firm leaders & project managers

***Advance the leadership potential
of your best and brightest!***

Earn 7.5 PDHs!

COURSE PARTNERS



The Business of Structural Engineering Workshop

Real-World Skills ... Strategic Insights ... Best Practices for Success

Managing your structural engineering business for success requires technical know-how coupled with a broad awareness of today's best business practices.

Firm managers must know the rules of finance and how they work in the real world, and the ins and outs of managing people, risk and resources, including:

- Understanding Duty to Defend and How to Protect Your Firm
- Avoiding Getting Burned by Electronic Communications
- Driving Financial Performance Through Metrics
- Navigating Your Way Through High Risk Projects
- Transitioning Project Managers to Firm Leaders

Contemporary Best Practices and Critical Operational Management Methods

This workshop highlights strategies for a wide array of critical business topics that will keep your business thriving despite a churning business environment.

Attendees will learn specific skills and techniques to help them manage change and build success in finance, leadership development, contracts and risk. This workshop is presented by the Council of American Structural Engineers (CASE), the leading provider of business practice and risk management information for structural engineering firms. Structural engineering firms are not simply run on technical know-how – you can't be successful without understanding the basics of the business world. ***The Business of Structural Engineering Workshop*** will share challenges facing today's structural engineering firms and how to address them.

What Will Attendees Learn?

Attendees will leave the event with best practices to assist your firm in:

- Reducing claims
- Increasing profitability
- Improving quality
- Enhancing management practices



— WORKSHOP HIGHLIGHTS —

Thursday, June 7

5:30 pm Workshop Dinner and Presentation

Enhance Project Performance through Team Culture: California Pacific Medical Center (CPMC), Van Ness IPD project



Stacy Bartoletti, CEO
Degenkolb Engineers



Jay Love, Senior Principal
Degenkolb Engineers



Photo by Brett Drury

Friday, June 8

6:45 am - 7:30 am Breakfast

7:30 am - 7:45 am Welcome

Corey Matsuoka, SSFM International

7:45 am - 9:00 am

California Duty to Defend Reform (SB 496)

Brett Stewart, XL Catlin Design Professional
Michael Olson, Dealey, Renton & Associates

9:15 am - 10:30 am

Did I Say That!? Electronic Communication, Retention and Back-up in the Engineering Practice

Karen Erger, Lockton
Eric Singer, Ice Miller, LLP

10:45 am-12 Noon

Key Business Metrics

Matt Fultz, Matheson Financial Advisors, Inc.

12:00 Noon - 1:30 pm Lunch

1:30-2:45 pm

Projects with the Largest Losses and Claim Frequency

Tim Corbett, SmartRisk
Brian Stewart, Collins, Collins, Muir + Stewart

3:00 pm - 4:15 pm

Transitioning Project Managers to Firm Leaders

Howard Birnberg, Birnberg & Associates

"It is the business aspect of this profession that can be the most challenging, especially to the younger members of our firms. This workshop provides us with great insight into what other firms do in this business to survive."

Brent Wright, Wright Engineering, LLC

"As engineers we all take pride in our technical work and invest in growing our technical capability. The Business of Structural Engineering seminar is an opportunity to think about the business and managing our exposure to risk."

Stacy Bartoletti, Degenkolb Engineers



REGISTER NOW!
Early Bird Rates until 3/15/18

Earn 7.5 PDHs!**REGISTRATION**

ATTENDEES	Advance	After March 15, 2018
CASE members	___ @\$399 = \$ _____	___ @\$499 = \$ _____
non-CASEmembers	___ @\$499 = \$ _____	___ @\$599 = \$ _____

ATTENDEE INFORMATION

(For multiple attendees, please attach additional copies of this form.)

Name _____

Name for Badge _____

Title _____

Firm _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

E-mail _____

PAYMENT INFORMATION

☐ AMEX® ☐ Visa® ☐ MasterCard® ☐ Discover®

Card # _____ Expiration Date _____

Name as shown on card _____

Signature _____

Make check payable to ACEC/CASE and send with form/s to:

American Council of Engineering Companies

ATTN: CASE Workshop

1015 15th St, NW, 8th Floor

Washington, DC 20005-2605

Or Fax to 202-789-7220 (secure)

HOTEL INFORMATION

The designated event hotel is the Marriott Anaheim 700 Convention Way, Anaheim, CA 92802. Book your room for CASE's

Business of Structural Engineering Workshop.

Special rate of \$219 USD/night (+ tax) available 06/07/18 to 06/08/18. Make reservations by calling (877-622-3056) reference ACEC 2018 CASE Planning Meetings/CASE Risk Management Seminar Meeting. The cut-off date for hotel reservations is May 15, 2018.

REFUNDS, CREDITS, SUBSTITUTIONS AND CANCELLATIONS

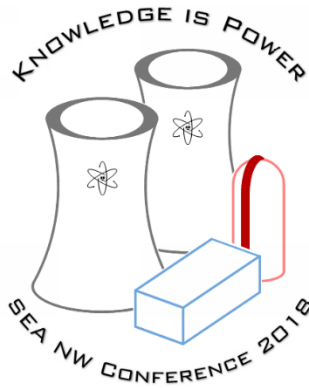
For cancellations received at least 15 days prior to program date, ACEC will issue a full refund. For cancellations received between 14 days and 3 days prior to program date, ACEC will issue credits toward any ACEC online class, live or on-demand. Credits are valid for 6 months from issue date. For cancellations received 2 days or less before a program date, no refunds or credits will be issued. Refunds or credits will not be issued for "no-shows." Registrants may choose another online class or substitute attendee/s without penalty at any time. Contact education@acec.org for further information.

Additional information is available at www.acec.org, by email to htalbert@acec.org, or by phone 202-682-4377.



GET FULL PROGRAM & REGISTRATION DETAILS:

<http://bit.do/acec-case2018>



SC Chapter SEAW

John Tate
509-910-7124
jatce@charter.net

WEDNESDAY AUGUST 1st TO SATURDAY AUGUST 4th !!!

MARK YOUR CALENDARS !!! SAVE THE DATES !!!

THE 2018 NORTHWEST CONFERENCE IN RICHLAND, WA!!!

- ▶ The 2018 Northwest Conference kicks off Wednesday evening at the Richland Hampton Inn for a Youth/Senior Catered Meet and Greet with no-host bar
- ▶ Wraps up Saturday morning with a guided tour of the Hanford, Washington B Reactor (something you don't see every day) with furnished transportation to and from the reactor site.
- ▶ In between there will be educational lectures morning and afternoon with lunches and snacks provided
Subjects specifically selected for the immediate application
By the practicing Northwest engineer.
- ▶ The lectures will be held at the WSU Tri-City Campus in North Richland
Morning/afternoon bus transport will be provided from the hotel
Or car-pool to the campus with other attendees.
 - ▶ Thursday evening's catered sit-down dinner with no-host bar
Features a speaker talking about the Hanford/Manhattan Project's History and the relationship to the Tri-Cities area.
- ▶ Friday evening's dinner will be aboard a chartered yacht with a tour of the Mighty Columbia River - Sit-down dinner and no-host bar provided
(Again, something you don't see every day).
 - ▶ Registration will nominally begin the end of April
- ▶ Vendor displays and presentations will be provided Thursday and Friday.



Sponsored by:
NW Concrete Masonry Association
RedBuilt
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SEI/SEAO JOINT MEETING

SPECIAL GUEST SPEAKER: **RONALD O. HAMBURGER**

Kell's Irish Pub, 112 SW 2nd Ave, Portland OR • May 30, 2018 • 11:30 am – 1:00 pm

THE FUTURE DEVELOPMENT OF PERFORMANCE BASED DESIGN FOR SEISMIC, WIND, FIRE PROTECTION AND OTHER LOADINGS

Why is Performance Based Design important to the profession? How will it change current engineering practice?

Click [link to register](#) for event, or email bahaar@ericksonstructural.com to RSVP.

Cost (includes lunch): \$35 for Professionals / \$30 for Government Employees / \$25 for Students

Mr. Hamburger is a world renowned engineer and a dynamic speaker.

YOU DON'T WANT TO MISS THIS!



RONALD O. HAMBURGER

SE, SECB, Senior Principal at Simpson
Gumpertz & Heger

Ron Hamburger is an **internationally recognized expert** in earthquake-resistant design and structural performance evaluation and is widely recognized in the structural engineering community for his leadership in performance-based design.

SPONSOR A STUDENT FOR ONLY \$25

Please consider sponsoring students to attend this special event! Email Thomas.L.North@usace.army.mil if you are interested.