



CONNECTIONS

April 2021 Volume 21 Issue 7

Newsletter of the
Structural Engineers
Association of Oregon

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SEAO has a LinkedIn account
and can be followed at [https://
www.linkedin.com/company/
structural-engineers-association
-of-oregon](https://www.linkedin.com/company/structural-engineers-association-of-oregon).

Upcoming SEAO Meetings and Events:

Thursday, April 22, 2021: SEAO Virtual Trivia Night & Fundraiser for SEAO Scholarship Foundation

Time: Cocktails at 5:30 pm

Trivia Starts at 6:00 pm

Registration will open to membership in early April.

Cost: \$100 per team (5 person maximum) or \$20 for Individual

See page 5 for more information and visit SEAO website at <https://www.seao.org/> to register.

Wednesday, April 28, 2021: SEAO Virtual Lunchtime Chapter Meeting

Topic: The Portland Building Seismic Renovation & Modernization—SEAO 2020 Award Winner for the Renovation/Retrofit Category

Speaker: Erik Kabusreiter

Time: 11:45 am—Networking/Social

Noon — Program Begins

Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH: 1 Hour (no credit to Affiliate Member)

See page 3 for more information and link to register.

Thursday, May 13, 2021: SEA/SEI/ASCE Joint Virtual Lunchtime Meeting

Topic: Willamette Falls Fishway Thermal Mitigation

Speaker: Erik Peterson, Managing Principal, Peterson Structural Engineers

Time: Noon—1 pm

Cost: **FREE**

PDH: 1 Hour

See page 4 for more information and link to register.

Wednesday, July 28, 2021: SEA/OACI Golf Tournament

Location: The Reserve Vineyards & Golf Club, 4805 SW 229th Avenue, Aloha, OR

Shotgun Start: 1:00 pm; Social Hour 6:00 pm; Dinner & Awards 6:30-7:30 pm

See pages 4, 13 & 14 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 SEO.

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PRESIDENT'S MESSAGE

BY: DUSTY ANDREWS



SEAO Members,

THE TIME IS NOW TO GET INVOLVED! Have you ever been curious on how SEO operates? Do you want to be on the leading edge of information that effects our profession? Are you interested in guiding the organization? Do you know someone that would be perfect for it? Well, now is the chance.

We are taking nominations for the 2021-2022 SEO

Board. The open positions are Secretary, Vice President, and Director (Affiliate). No prior experience needed. You can nominate yourself or a colleague. For inquiries on what a position entails, feel free to contact one of the current board members. All nominations can be sent to jane@seao.org.

SEAO's first ever Trivia Night is almost upon us. The SEO YMF group has been working hard on the event, and it will be a lot of fun. The event will be held virtually and will take place **April 22nd**. It's not too late to sign up. All proceeds will go to the SEO Scholarship Foundation. Do not give up your chance to be on a team of the "smartest engineers in town". Registrations can be found at the following link. [HTTPS://FORMS.GLE/FSF7THKQCHD1CXWB9](https://forms.gle/FSF7THKQCHD1CXWB9). If you are a supporter of the SEO Scholarship Fund, we are also taking donations.

Finally, I am excited to announce that SEO created a new committee. The committee is The Structural Engineering Engagement and Equity (SE3) committee. The committee, in concert with NCSEA's SE3 committee, will be addressing many topics, including career advancement, compensation equity, inclusion, and work-life balance among other things. The committee will be hosting events and webinars to help promote and educate our members in these areas. A big thanks to Alex Stroud and Annabel Shepard for spearheading this effort. Please reach out to SEO if you want to get involved or have questions.

Enjoy the moment,

Dusty

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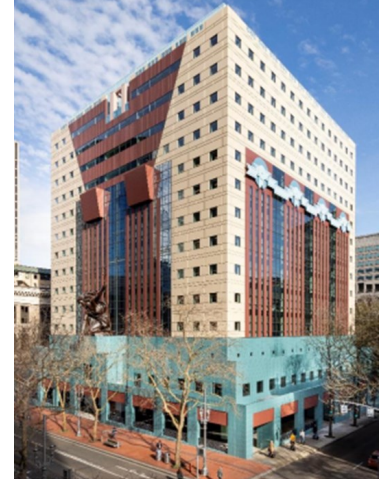
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APRIL CHAPTER VIRTUAL MEETING WEDNESDAY, APRIL 28, 2021, 11:45 AM–1:00 PM

Topic: 2020 SEAO Excellence in Structural Engineering Renovation/Retrofit Award—The Portland Building

Description: The Portland Building Renovation Project: Few structures in Portland illicit such strong feelings as the Postmodernism icon The Portland Building. Designed by renowned architect Michael Graves and opened to a warm reception in 1982, The Portland Building is an internationally renowned ode to Classical symbolism and ornamentation. Since its opening, the 15-story, 360,000 square foot building has also been wrought with challenges, including a façade built with “budget-friendly” materials that have lacked resiliency, constant leaks, and lack of daylight for building occupants. Beyond these elementary architectural issues, structural concerns included the lack of a functional seismic force-resisting system and a lack of ductile detailing in the structure. KPFF will share how a great team and a lot of creativity helped transform this building for the next generation of City of Portland residents and employees.



Speaker: Erik Kabusreiter, PE, SE, KPFF Consulting Engineers



Erik has over 15 years of structural engineering experience and places a high value on team collaboration. He has worked with a wide range of materials and produced an array of successful systems for many building uses, including office, university, and 24/7 facilities. He enjoys design that involves solving complex problems and finding solutions which maintain the architectural design intent.

Date: Wednesday, April 28, 2021

Time: 11:45 am—1:00 pm

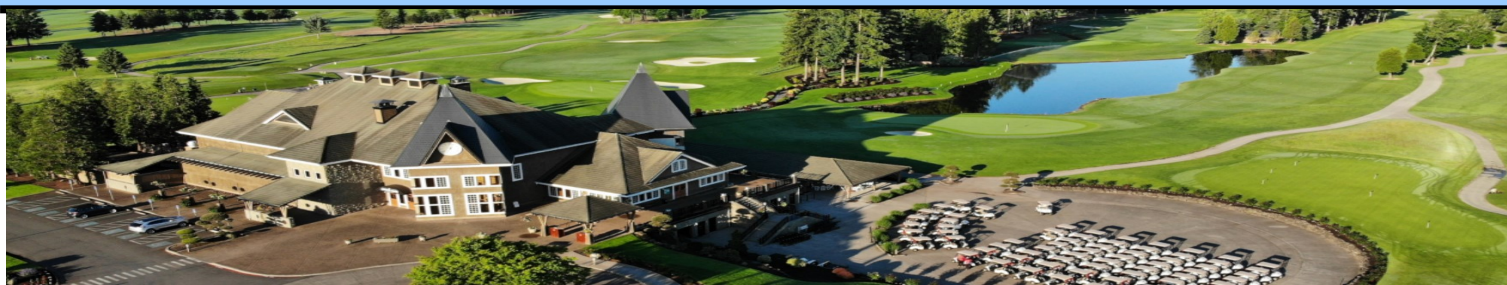
Sign-up: Register at <https://www.seao.org/events/apr2021/portland-building-renovation-project> and a link will be provided via email the evening before the meeting for signing into the meeting

Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH Credit: 1 PDH is recommended for this program.

Questions: Contact Jane Ellsworth at jane@seao.org

SEAO/OACI ANNUAL GOLF TOURNAMENT WEDNESDAY, JULY 28, 2021



The Reserve Vineyards & Golf Course (North Course)
4805 SW 229th Avenue, Aloha, OR

Shotgun Start: 1 pm
Social Hour: 6 pm
Dinner & Awards: 6:30-7:30 pm

Once again, SEAO and OACI combine forces for a return engagement of golf and merriment at The Reserve in Aloha! The tournament will be on the North Course—an expansive, open-air course that captures a lot of Oregon’s low-land landscapes, including the rolling hills of the valleys and grassy coastal dunes. Participants will all enjoy the team spirit of playing a 4-person scramble.

We will have a shotgun start at 1:00 pm, allowing us to all finish at the same time to share stories of the day’s glory and despair, along with dinner, beverage, and many prizes. The course offers a driving range to hone your skills prior to the tournament—so come early. Power carts and driving range are included in the golf fee. There is also a \$20,000 hole-in-one prize available. See attached flyers on pages 8 and 9 for registration for golf and sponsorships. Come join us for a festive and fun day of golf.

SEAO/SEI/ASCE JOINT MAY VIRTUAL LUNCH MEETING THURSDAY, MAY 13, 2021

Please join the ASCE Oregon Section and the Oregon SEI and SEAO chapters on Thursday, May 13th at 12:00 pm for our monthly meeting and presentation. Our speaker this month will be Erik Peterson, PE of Peterson Structural Engineers (PSE), who will be discussing the Willamette Falls Fishway Thermal Mitigation. PSE provided evaluation, design, and repair of Fishway No. 1, including a repair plan for foundational support elements and thermal force return tension rods to stabilize the structure and arrest the thermal actions causing damage to the structure.

Meet our speaker:

In his more than 25 years with PSE, Erik has served as a Project Manager, Structural Engineer, and Consultant for a wide variety of public and private clients. Erik became Managing Principal of PSE in 2001 and continues to inspire and direct the firm.

His diverse range of experience includes a variety of structures from commercial and residential buildings, recreational facilities, pump stations, water reservoirs and treatment facilities, to fisheries, ports and docks, cofferdams and retaining walls. This insight allows him to offer effective insight into every project.



In addition to providing typical design and construction services for new construction, Erik has performed numerous evaluations of existing structures to provide analysis and design for potential upgrades. His extensive structural design experience and code knowledge makes him a valuable asset on upgrade projects, able to provide innovative and economical solutions to project challenges. Erik also lends his expertise to clients involved in legal disputes over damages and structural problems and failures. He is frequently called upon to perform forensic investigations and analyses to help determine cause. This work includes providing on-site investigations and condition assessments, performing extensive design and construction document review, and acting as an impartial expert witness for legal negotiations and hearings.

Time: Noon to 1 pm

Location: Virtual

Cost: Free

PDH: 1 PDH is Available to Attendees

Please use the following link to register for this free event: <https://www.seao.org/events/may2021/willamette-falls-fishway-thermal-mitigation>.

SEAO VIRTUAL TRIVIA NIGHT THURSDAY, APRIL 22, 2021



ENJOY COMPETITION, NETWORKING, AND TONS OF VIRTUAL FUN!!

Help SEAO raise money for the SEAO Scholarship Foundation by joining us on April 22, 2021, for a fun structural engineering themed trivia night.

Time: Cocktails at 5:30 pm
Trivia Starts at 6:00 pm

Make your own teams (5 people maximum) or sign-up as an individual and get mixed into your own team. The registration fee is a minimum donation of \$20 for an individual and \$100 for a team. For an additional \$50 you can sponsor a student on your team and have an extra brain to help you win! Donations are tax deductible and will help support future structural engineers and their education.

Please email or call Jane Ellsworth at jane@seao.org or (503)753-3075 to make a donation. Once your payment has been confirmed with SEAO, the individual or team captain will receive a confirmation email with a link to the Zoom event.

Visit the SEAO website <https://www.seao.org/events/apr2021/trivia-night> for more information.

SEER UPDATE BY: DAVID TARRIES

OREGON NEWS

There is some good news from Salem these days. Since the passing of HB 2206 in 2019 and the establishment of OrSAP in ORS 401.256, there has yet to be funding provided for the program. This spring there has been a push to fund OrSAP, first through HB 2881 and HB 2892, and now through HB 2851. HB 2851 looks to provide \$150,000 per year to fund staff and materials needed to run OrSAP. Please feel free to reach out to your local state representative in support of HB 2851. This program would be similar to Cal OES SAP and WAsafe and would provide an ID card credential for all qualified evaluators so they may be identified by a jurisdiction in a time of emergency. They will also be recorded in the state system and get notifications when things like professional licensure have expired. Licensure is part of the requirement for the credential, so the system will remind evaluators to keep everything current and valid.

The hope is to have a path for those with Cal OES SAP credentials to get reciprocity through a short online refresher. There may be a path for those with straight ATC-20 training to get credentialed if the course provider has acceptable records and a refresher, including new FEMA training, is taken. New applicants would need to take a course, perhaps available online, that would take about 8 hours. HB 2851 is now in Ways and Means, and the hope is it gets sent to the floor and passed. Stay tuned for more information as it becomes available.

TRAINING OPTIONS

FEMA P-749

Ed Huston of Huston Structural Engineering will be presenting a course on FEMA P-749 on April 21, 2021 from 9 am to 1 pm. This free web-based training provides a readily understandable explanation of the intent of earthquake-resistant design and the seismic requirements outlined in the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures. This course is set up for building design and construction professionals, elected officials, building

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SEER UPDATE (CONT. FROM PAGE 5)

BY: DAVID TARRIES

officials, decision makers in the insurance and financial industry communities, and individual business owners and other citizens. Please email seer@seao.org if you are interested in the course and would like a sign-up link.

FEMA ICS COURSES

FEMA has been updating their standards for post-disaster resource coordination for a few years now. They have indicated that volunteers should have at least some knowledge of the Incident Command System (ICS) and the National Incident Management System (NIMS). Many of the basic courses, such as ICS 100, 200, 700, and 800 can be taken online from the FEMA website under Independent Study [Emergency Management Institute | Independent Study Program \(IS\) \(fema.gov\)](https://www.fema.gov/emergency-management-institute-independent-study-program). The new Resource Typing from FEMA requires a minimum level [View Position Qualification - RTLT \(fema.gov\)](https://www.fema.gov/emergency-management-institute-independent-study-program) for each level of evaluator (most volunteers would be Post-Disaster Building Safety Evaluators). There are several other ICS courses that need to be taken in person, but they are generally for higher level qualifications.

Keep in mind that these FEMA courses are considered required by FEMA and could be used to withhold emergency funding to local jurisdictions after an event, but since so few people have taken them, programs like Cal OES SAP and WAsafe have yet to enforce them as mandatory. As OrSAP has not yet gone live, we cannot say what will happen, but they will most likely follow the lead of California and Washington. As time goes on, having these courses will become more important, but they are not yet critical path. Please keep that in mind and try to take the basic ICS courses whenever you can as time permits.

King County in Washington State is working to build up their evaluator training (WAsafe) and is offering some online ICS options this summer that may be of interest to some SEAO members. The training is free and you don't have to leave your home. Please see the information below if you have any interest in these trainings.

ICS 100, ICS 200

In the WAsafe training, the county introduces the Incident Command System (ICS), the standardized approach to managing the response to an emergency incident, and how WAsafe

fits into ICS. We are excited to tell you that King County Emergency Management is offering these two classes in a lunchtime lecture format. Online classes about the ICS are available from FEMA; you typically work your way through the independent study trainings (estimated as taking 2 hours and 4 hours for ICS-100 and ICS-200, respectively), then must pass the class exam to get formal credit and recognition. To be clear, you are not required to take these classes to enroll in WAsafe, Washington state's program for volunteers. But it is important to understand how WAsafe responders fit into the organization of emergency response and taking ICS-100 and ICS-200 are highly recommended.

Also, as discussed in the WAsafe training, please be aware that FEMA has developed a set of national standards for "Post-Disaster Building Safety Evaluators." For these national standards – not WAsafe -- these two classes, in addition to two other online classes, are required to qualify. So this is a unique opportunity to get these two classes under your belt!

In these lunchtime lectures, ICS-100 and ICS-200 will be presented in a very accelerated format. For each class, the plan is to spend approximately 30 minutes covering the main points of the course (webinar format) and to allow some time for you to take FEMA's standard online test, which takes an additional 10-30 minutes.

Each class is being offered three times. Each session runs from noon to 1 pm. Full details are available at these registration sites:

ICS-100 (Lunchtime Lecture):

June 15: <https://ics100-jun15.eventbrite.com>

June 23: <https://ics100-jun23.eventbrite.com>

October 14: <https://ics100-oct14.eventbrite.com>

ICS-200 (Lunchtime Lecture):

July 7: <https://ics200-jul07.eventbrite.com>

July 13: <https://ics200-jul13.eventbrite.com>

October 28: <https://ics200-oct28.eventbrite.com>

There is no limit to how many people can attend these sessions, but each person does need to register for the sessions they want to attend. Please feel free to share with others who might be interested.

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SEER UPDATE (CONT. FROM PAGE 6)

BY: DAVID TARRIES

ICS-300

King County has also scheduled some additional ICS-300 classes. *(They may add more classes if they see enough people on the waitlists.)* All of these are remote-access classes that will be using the Zoom video-conferencing system. Because of the number of small-group exercises in the ICS-300 course, unless there are technological hurdles for someone, all students will be **expected** to participate in the class with a live video camera during most of the class (even if it's just from their cell phone).

These are designed to only take up about half the day. These sessions start on Monday and end on Friday of the same week. They will be starting at 8:00 am each day and will be completed by 1:00 pm each day (and likely earlier most days, except Wednesday). There will be 10-minute breaks after every 50 minutes of class. Below are the links to the registration sites for these classes:

ICS-300:

August 02-06: <https://ics300-aug02.eventbrite.com>

November 01-05: <https://ics300-nov01.eventbrite.com>

ICS 400

King County has currently scheduled **six** ICS-400 classes in the near-term and at least **two** more throughout the rest of the year. *They may add more classes if they see enough people on the waitlists.*

King County has also tried to tailor certain sessions to groups that have work-related scheduling issues.

NOTE: All of these are remote-access classes that will be using the Zoom video-conferencing system. Because of the number of small-group exercises in this course, unless there are technological hurdles for someone, all students will be **expected** to participate in the class with a live video camera during most of the class (even if it's just from their cell phone). Here is what King County is offering:

The county finds that taking classes via video-conferencing can be tiring in the typical 8-hour format, so **these are designed to only take up about half the day**. These sessions start on Monday and end on Thursday of the same week. The clas-

ses will be starting at 8:00 am each day and will be completed by 12:30 pm each day. There will be 10-minute breaks after every 50 minutes of class. Below are the links to the registration sites for these classes:

ICS-400:

May 03-06: <https://ics400-may03.eventbrite.com>

May 10-13: <https://ics400-may10.eventbrite.com>

May 24-27: <https://ics400-may24.eventbrite.com>

September 20-23: <https://ics400-sep20.eventbrite.com/>

December 13-16: <https://ics400-dec13.eventbrite.com/>

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.

NEW MEMBERS

Welcome to our newest Members!

Brook Powers—Devco Engineering
Mike Redmond—Harris Group
Ryan Ngo—Hayden Consulting Engineers
Edward Ling—Peterson Structural Engineers
Dave Sullivan—Sandbox Designs
Tim Sapienza—Fyfe Company
Tracy Donaghue—KPFF Consulting Engineers

WELCOME TO SEAO!

NETAP WEB-BASED TRAININGS FOR PACIFIC NW ZONE

There are several upcoming web training opportunities available from FEMA and ATC. See below for schedule and additional links for more information.

| Host(s) | Course | Date | Time | Instructor |
|--------------------|----------------|---------------------|--------------|-----------------|
| Alaska | FEMA P-749 | Wednesday, April 21 | 9am-1pm (PT) | Ed Huston |
| Alaska, Washington | FEMA P-154 | Wednesday, April 28 | 9am-1pm (PT) | Keith Porter |
| Alaska | ATC-20 | Wednesday, May 5 | 9am-1pm (PT) | Keith Porter |
| Oregon | FEMA 395 | Tuesday, June 1 | 1pm-5pm (PT) | Barry Welliver |
| Washington | FEMA E-74 | Wednesday, June 16 | 9am-1pm (PT) | Keith Porter |
| Washington | FEMA P-767 | Wednesday, June 23 | 9am-1pm (PT) | Ed Huston |
| Oregon | FEMA P-50 & -1 | Wednesday, July 14 | 1pm-5pm (PT) | Kelly Cobeen |
| Oregon | FEMA 232 | Tuesday, July 20 | 1pm-5pm (PT) | Morgan Griffith |

Web event: NETAP Web-Based Training: FEMA P-749, *Earthquake-Resistant Design Concepts*

Date & time: Wednesday, April 21
9 am-1 pm (Pacific)

Register here: <https://attendeegotowebinar.com/register/2996055250353945869>

Instructor: Ed Huston, Owner and Principal, Huston Structural Engineering

Description: This free web-based training provides a readily understandable explanation of the intent of earthquake-resistant design and the seismic requirements outlined in the NEHRP *Recommended Seismic Provisions for New Buildings and Other Structures*.

Audience: Building design and construction professionals, elected officials, building officials, decision makers in the insurance and financial industry communities, and individual business owners and other citizens.

Document: Download for free using [this link](#).

PDH eligible: Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)

Web event: NETAP Web-Based Training: FEMA P-154, *Rapid Visual Screening of Buildings for Potential Seismic Hazards*

Date & time: Wednesday, April 28
9 am-1 pm (Pacific)

Register here: <https://attendeegotowebinar.com/register/1520435879087929869>

Instructor: Keith Porter, Research Professor, University of Colorado Boulder, and Principal, SPA Risk LLC

Description: This free web-based training covers methods and processes that enable personnel to rapidly identify, inventory, and screen local buildings according to their expected safety and usability during and after earthquakes. Local officials can use these data to plan and prioritize further engineering and vulnerability analysis, emergency-response needs, and mitigation projects.

Audience: Building officials, engineers, architects, building owners, emergency managers, risk analysts, and other interested citizens and volunteers.

Document: Download for free using [this link](#).

PDH eligible: Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)

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NETAP: WEB-BASED TRAININGS FOR PACIFIC NW ZONE

(CONTINUED FROM PAGE 8)

- Web event:** NETAP Web-Based Training: ATC-20, *Post Earthquake Safety Evaluation of Buildings*
- Date & time:** Wednesday, May 5
9 am-1 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/5312460168264132621>
- Instructor:** Keith Porter, Research Professor, University of Colorado Boulder, and Principal, SPA Risk LLC
- Description:** This free web-based training provides instruction on rapid and detailed evaluation procedures for evaluating earthquake-damaged buildings and posting them as INSPECTED (apparently safe, green placard), LIMITED ENTRY (yellow placard), or UNSAFE (red placard). The web-based training provides examples that allow attendees to evaluate building damage conditions, assess the overall risk from the damage, and recommend which of the three placards should be posted on the building.
- Audience:** Building officials, engineers, architects, building owners, emergency managers, risk analysts, and other interested citizens and volunteers.
- PDH eligible:** Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)
-
- Web event:** NETAP Web-Based Training: FEMA 395, *Earthquake Safety and Mitigation for Schools*
- Date & time:** Tuesday, June 1
1 pm-5 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/5849713435432705549>
- Instructor:** Barry Welliver, Owner and Principal Engineer, BHW Engineers
- Description:** This free web-based training teaches participants how to: (1) assess and analyze seismic risks typical to school buildings; (2) develop actionable plans for reducing and managing these risks; (3) secure nonstructural components in school facilities; and (4) implement incremental seismic rehabilitation as an affordable approach for protecting existing school buildings and ensuring occupant safety.
- Audience:** School officials, school administrators, teachers, facility managers, engineers and other stakeholders interested in reducing earthquake risks in school facilities.
- Document:** Download for free using [this link](#).
- PDH eligible:** Yes (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)
-
- Web event:** NETAP Web-Based Training: FEMA E-74, *Reducing the Risks of Nonstructural Earthquake Damage*
- Date & time:** Wednesday, June 16
9 am-1 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/3430155635139552525>
- Instructor:** Keith Porter, Research Professor, University of Colorado Boulder, and Principal, SPA Risk LLC
- Description:** This free web-based training describes the sources and types of nonstructural earthquake damage and the effective methods and guidance that individuals and organizations can use to take action now before the next earthquake and minimize future injuries and property losses from nonstructural risks. Nonstructural components of buildings include all elements that are not part of the structural system; that is, the architectural, mechanical, electrical, and plumbing systems, as well as furniture, fixtures, equipment, and other contents.
- Audience:** Property owners, facility managers, local officials, engineers, architects, small businesses, and emergency managers.
- Document:** Download for free using [this link](#).
- PDH eligible:** Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)

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NETAP: WEB-BASED TRAININGS FOR PACIFIC NW ZONE

(CONTINUED FROM PAGE 9)

- Web event:** NETAP Web-Based Training: FEMA P-767, *Earthquake Mitigation for Hospitals*
- Date & time:** Wednesday, June 23
9 am-1 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/7739029554207681293>
- Instructor:** Ed Huston, Owner and Principal, Huston Structural Engineering
- Description:** In this training, participants are introduced to earthquake hazards in health care settings and learn about methods that can be used to analyze and reduce risks of damage in hospitals and other medical buildings. Such facilities have unique nonstructural components, including equipment and infrastructure systems that can become sources of injury or damage even during smaller earthquakes. By implementing sound, cost-effective mitigation measures, health care facilities can reduce seismic risks and ensure that, in the event of an earthquake, they can remain in operation to serve their communities.
- Audience:** Hospital facilities managers, engineers, administrators, and other hospital personnel.
- Document:** Download for free using [this link](#).
- PDH eligible:** Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)
-
- Web event:** NETAP Web-Based Training: FEMA P-50 & P-50-1, *Simplified Seismic Assessment and Retrofit Guidelines for Detached, Single-Family, Wood-Frame Dwellings*
- Date & time:** Wednesday, July 14
1 pm-5 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/553015180226509069>
- Instructor:** Kelly Cobeen, Principal, Wiss, Janney, Elstner Associates, Inc
- Description:** This course guides the participant through a simplified procedure for seismic assessment for detached single-family wood-frame dwellings and provides guidance on how to retrofit the most common seismic deficiencies.
- Audience:** Building owners, building officials, home inspectors, design professionals, home builders, emergency planners, insurers, and lenders.
- Document:** Download for free using [this link](#).
- PDH eligible:** Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)
-
- Web event:** NETAP Web-Based Training: FEMA 232, *Homebuilders' Guide to Earthquake-Resistant Design and Construction*
- Date & time:** Tuesday, July 20
1 pm-5 pm (Pacific)
- Register here:** <https://attendee.gotowebinar.com/register/2628335681072324877>
- Instructor:** Morgan Griffith, Senior Managing Engineer, Exponent
- Description:** This free web-based training provides seismic design and construction guidance for one- and two-family houses in a manner that can be utilized by homebuilders, knowledgeable homeowners, and other non-engineers.
- Audience:** Building officials, engineers, architects, building owners, emergency managers, risk analysts, and other interested citizens and volunteers.
- Document:** Download for free using [this link](#).
- PDH eligible:** Yes. (Note: In the case of multiple participants watching the training on the same device, a PDH certificate will only be issued to the individual who registered for the training.)

EMPLOYMENT OPPORTUNITIES

MORRISON MAIERLE

Structural Engineer
Bend, OR & Sheridan, WY

Morrison-Maierle has exciting opportunities for experienced Structural Bridge Engineers in Bend-Redmond, Oregon and Sheridan, Wyoming offices. This position will work innovatively and collaboratively with the firm's Transportation Group, as well as with the various engineering disciplines within Morrison-Maierle. Our team approach promises to deliver final projects that are coordinated, cost-effective, sustainable solutions that will meet the long-term needs of our clients. This position will provide a rewarding opportunity for a person driven to exceed client and firm expectations in the areas of business development, project management, project delivery, undertaking the technical work associated with bridge design and planning; leading and mentoring junior engineers. Please visit www.m-m.net for more details.

HOLMES STRUCTURES

Structural Fire Engineers
San Francisco and Los Angeles, CA & Seattle, WA

We are seeking Structural Fire Engineers of all levels for our San Francisco, Los Angeles, and Seattle offices!

Holmes Fire is a fire engineering consultancy firm with unrivaled talent, advancing fire safety design through a collaborative approach. Our in-house expertise enables us the flexibility to offer comprehensive fire safety engineering solutions, enhancing the functionality of design whilst always prioritizing occupant safety. As part of the international Holmes Group, we service projects throughout Australia, the US, and New Zealand. We have a reputation for technical excellence. We provide an approach that encourages performance-based solutions to deliver innovation, design flexibility, greater value and compliance as an alternative to prescriptive building codes.

Our team strives to provide the highest level of professional service and success for our clients, building meaningful relationships along the way.

Interested in joining us? Send your resume with cover letter to hr@holmesstructures.com.

GRUMMEL ENGINEERING

Structural Engineer
Portland, OR

Grummel Engineering LLC (www.grummelengineering.com) is seeking a Structural Engineer with 4 to 8 years of experience. Candidates should have a B.S (M.S. preferred) in Civil Engineering, with an emphasis in structures. Candidates must possess a valid PE license or be working toward licensure.

Engineers with a thorough knowledge of current codes and an interest in participating in all steps of a project, including client relations, site visits, fee estimating, schematic, construction and permit documentation and analysis, construction support and more, are encouraged to apply.

We care deeply about the quality of product we produce, but we care even more about the people that create those products. Our philosophy encourages engaged working hours to give us the flexibility to enjoy our lives outside of work.

Contact eric@grummelengineering.com via email for more information or to apply.

HOLMES STRUCTURES

Structural Engineer
Portland, OR; San Francisco and Los Angeles, CA; & Seattle, WA

We are seeking engineers of all levels for our San Francisco, Los Angeles, Portland, and Seattle offices!

We're an energetic group of creative and savvy structural engineers. We believe a welcoming workplace fostering collaboration and initiative brings out your best.

Holmes Structures (www.linkedin.com/company/holmes-structures/) is a structural engineering firm working throughout the West Coast. We are part of the international Holmes Group (www.linkedin.com/company/holmesgroup/), with offices around the Pacific Rim. Together we ask great questions, do great thinking, and ultimately produce great work.

Interested in joining us? Send your resume with cover letter to hr@holmesstructures.com.

(Continued on Page 7)

EMPLOYMENT OPPORTUNITIES (CONT.)

MD STRUCTURAL ENGINEERING

Structural Engineer
Vancouver, WA

MD Structural Engineering, Inc. is an expanding structural engineering firm, located in downtown Vancouver, Washington. Our office provides designs for a wide range of projects, including multi-family, large single-family residential, office/retail, curtain wall system, and earth retaining structures.

MDS prides itself on customer service and providing cost effective and elegant solutions for all projects. We are currently seeking an enthusiastic professional engineer who is passionate about structural engineering and continued growth in the field. The ideal candidate would be someone who possesses:

- PE licensure in OR or WA with aspirations of attaining SE licensure
- Practical experience designing projects using wood, steel, concrete, and other construction materials in combination with current building codes
- A thorough understanding and practical design experience with both gravity and lateral loads systems in all structures
- Effective communication and customer service skills
- Experience with AutoCAD and other industry design software.
- Experience designing aluminum storefront & curtain wall systems

Please send resumes to: noot@mdstructural.com

ERICKSON STRUCTURAL ENGINEERING

Structural Engineer
Vancouver, WA

Are you ready for a new opportunity? Our engineering practice is focused upon existing buildings, including structural forensics, renovations, seismic upgrades, remedial design, failure investigations and building structure evaluations. These are not routine projects that are handled with spreadsheets and typical details. We seek out and accept challenging assignments that require a true understanding of engineering principles, technical knowledge and experience to resolve our clients' complex and unique projects.

Erickson Structural Consulting Engineers is small, niche-based structural engineering firm. Our projects are located in many of the western states, but are concentrated in the Pacific Northwest and Hawaii. We have an immediate opening for a structural engineer with a PE license, with approximately four to eight years of experience working in a consulting structural engineering environment, to join our team in Vancouver, Washington. The successful applicant must be comfortable with client interaction, possess excellent English verbal and written communication skills, be efficient in the use of AutoCAD, and be physically capable of conducting project site visits, including occasional entrance into seldom-accessed building spaces.

We offer a competitive salary, a medical, dental and vision benefits package, a 401k plan with employer matching, paid training, quarterly profit sharing, paid holidays, PTO, a company-issued laptop and cell phone, a flexible schedule, including the ability to work from home on occasion, along with other benefits. If you are looking for a relaxed office environment, an opportunity to play an integral role in our firm and to be involved in distinct and meaningful projects, we encourage you to apply. To do so, please submit a cover letter describing your career aspirations, a copy of your resume, a list of references, and salary expectations to info@ericksonstructural.com.

2021 SEAO / OACI GOLF TOURNAMENT



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

JULY 28TH, 2021
The Reserve
Vineyards & Golf Course
1:00 PM - SHOTGUN START!

EVENT DETAILS:

The S.E.A.O. and O.A.C.I. are hosting our annual golf tournament at the Reserve in Aloha Oregon so sign up now to reserve a spot this year at one of the best non-pro golf tournaments around at one of the best courses in Oregon. We'll be returning to the the Reserve's North course, designed by the award-winning Bob Cupp. The Reserve's North Course is a more expansive, open air course that captures a much of Oregon's low land vistas, rolling hills and green valleys, and even the coastal dunes. Measuring up to 6,845 yards, this par-72 course is an excellent location for the tournament and our players.

Per usual, we will have a shotgun start at 1pm, and capping the evening with dinner, beverages, and various exciting prizes for participants and their teams.

We look forward to seeing everyone come out again for our annual golf tournament!

WHEN:

DATE: Wednesday, July 28th
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

Appropriate "Country Club" attire is required:

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

**NO REFUNDS FOR
CANCELLATIONS
AFTER JULY 7th**

WHERE:

The Reserve (North 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

**PLEASE RETURN THIS ENTRY
FORM BY JULY 7th TO:**
S.E.A.O.
9220 SW Barbur Blvd. #119
PMB #336
Portland, OR 97219
(503) 753-3075 Phone

| Player Names | Green Fees | Membership | Payment Enclosed |
|--------------|--|---|------------------|
| | <input type="checkbox"/> Golf & Dinner - \$150 | <input type="checkbox"/> SEAO <input type="checkbox"/> OACI | \$ _____ |
| | <input type="checkbox"/> Golf & Dinner - \$150 | <input type="checkbox"/> SEAO <input type="checkbox"/> OACI | \$ _____ |
| | <input type="checkbox"/> Golf & Dinner - \$150 | <input type="checkbox"/> SEAO <input type="checkbox"/> OACI | \$ _____ |
| | <input type="checkbox"/> Golf & Dinner - \$150 | <input type="checkbox"/> SEAO <input type="checkbox"/> OACI | \$ _____ |

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

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

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

Pay By MAIL: ☐ Check Included

TOTAL: \$

Name:
As it appears on Credit Card

Contact Phone #:

Credit Card #:

Credit Card Exp Date:

3-Digit Code:
On back of Credit Card

Billing Zip Code:

2021 SEAO / OACI GOLF TOURNAMENT



JULY 28TH, 2021
The Reserve
Vineyards & Golf Course
1:00 PM - SHOTGUN START!

SPONSORSHIP FORM

Company Name: _____

Contact Name: _____

Phone: _____ Fax: _____

Email: _____

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

- | | | |
|--|--|---|
| <input type="checkbox"/> HOLE SPONSORSHIP - \$250 Comes with individual tee signage and recognition at the on-site dinner. | <input type="checkbox"/> PAR-3 SPONSORSHIP - \$750 Set your company up near the tee at one of 4 available, 3-par holes and also receive recognition at the on-site dinner. (Only available to 4 sponsors) | <input type="checkbox"/> DINNER SPONSORSHIP - \$3,000 Join the SEAO and OACI by sponsoring the on-site barbecue dinner! Includes tournament registration for a team of 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
- ☐ Kegerator | \$400
- ☐ Ocean Fishing Trip for 4 | \$600
- ☐ YETI 65 Cooler | \$400
- ☐ Quadricopter Drone | \$300
- ☐ Power Washer | \$500

SPECIAL SPONSORSHIPS

- ☐ LD/KP/Long Putt Hole Sponsor
\$150
- ☐ On Course Drink Refreshment Sponsor
\$500 *(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
\$250 *(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:

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: jane@seao.org

Pay By MAIL: ☐ Check Included

TOTAL: \$ _____

Name:
As it appears on Credit Card

Contact Phone #: _____

Credit Card #:

Credit Card Exp Date:

3-Digit Code:
On back of Credit Card

Billing Zip Code: