



CONNECTIONS

In Brief

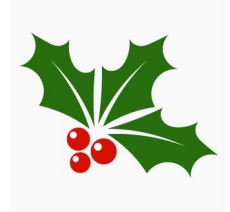
December 2020 Volume 21 Issue 3

Newsletter of the
Structural Engineers
Association of Oregon

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Upcoming SEAO Meetings and Events:



Thursday, January 21, 2021: ASCE/SEI Standards Series 48 Design of Steel Transmission Pole Structures

Speakers: Ken Sharpless & Nick Grossenbach
Time: 10:00 am—11:30 am
Cost: \$49 Member; \$99 Non-member; Students Free with Free SEI Membership
Visit <https://collaborate.asce.org/integratedstructures/sei-standards> for more information.

Wednesday, January 27, 2021: SEAO Excellence in Structural Engineer Virtual Awards Program & Chapter Meeting

Topic: SEAO Excellence in Structural Engineering Awards Program
Speakers: SEAO Awards Committee & Board President
Time: 11:45 am—Networking/Social
Noon — Program Begins

Link to Access Meeting: Register online in January on SEAO website.
Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member
PDH: 1 Hour (no credit to Affiliate Member)
See page 2 additional Awards program information.

Tuesday, February 9, 2021: OSU ASCE/SEI Present Performance-Based Design is the Future

Speaker: Don Dusenberry, P.E., SECB, F.SEI, F.ASCE
Time: 6:00 pm—7:30 pm
Cost: Free
PDH: 1 Hour
See page 3 for additional information and how to register.

Sunday, March 28—Thursday, April 1, 2021: ACI Virtual Concrete Convention

Save the Date
Registration to Open soon.
Cost: \$99 Member; \$179 Non-member; Students Free for ACI Student Members
Visit <https://www.concrete.org/events/conventions/currentconvention.aspx> for more information.

Wednesday, April 14—Friday, April 16, 2021: AISC/NASCC Steel Conference

Location: Kentucky International Convention Center, Louisville, Kentucky
Registration to open in February.
Visit <https://www.aisc.org/nascc> for more information.

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



SEAO AWARDS LUNCH MEETING ANNOUNCEMENT

WEDNESDAY, JANUARY 27, 2021

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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SAVE THE DATE:

Please join SEAO for the 6TH Annual Excellence in Structural Engineering Awards presentation. For the first time, the meeting will be virtual to meet existing public gathering restrictions.

Awards will be presented to the winning projects, as selected by an esteemed panel of independent judges, in the following categories:

- New Buildings Over \$20M
- New Buildings Under \$20M
- Renovation/Retrofit
- Special Use Structures
- Jurors' Favorite

Topic: 2020 SEAO Excellence in Structural Engineering Awards

The Awards Committee will spotlight each submission in each category and announce the winning project. We will plan on allowing each winning team to make a brief statement about the project and put the spotlight on their team. Mark your calendars!

Location: Virtual

Time: 11:45 am to Noon—Zoom Social **Cost:** \$25 — Prepaid Members
Noon to 1 pm— Awards Program \$35 — Prepaid Non-Members
Free — Students

Register: A link will be provided in the January newsletter to register for the meeting.

PDH Credit: One PDH will be recommended for this program.

SEAO COMMITTEES

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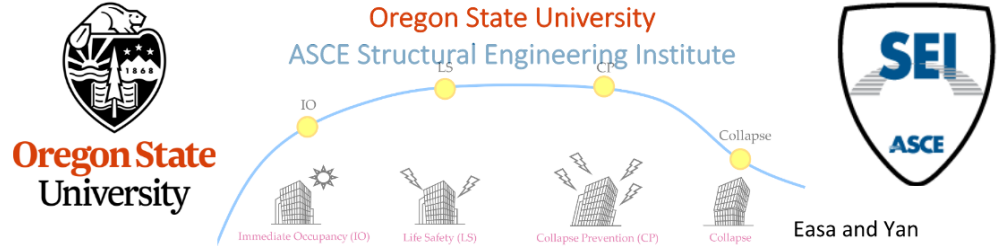
Amit Kumar

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David Linton (Alternate)

dlinton@mcknze.com

OREGON STATE UNIVERSITY SEI STUDENT CHAPTER FREE ZOOM PRESENTATION TUESDAY, FEBRUARY 9, 2021



PERFORMANCE-BASED DESIGN IS THE FUTURE

Performance-based design (PBD) requires that structural systems meet specific performance objectives. PBD reverses the design process by defining the end goal as the starting point. The engineer engages creativity/innovation, science and structural/mechanics principles, unencumbered by unnecessary and often counterproductive prescriptive requirements, to identify optimal solutions to multiple, sometimes competing, objectives. The design is completed by demonstrating performance through analysis, simulation, and/or testing.

Date: Tuesday, February 9, 2021

Time: 6:00 pm to 7:30 pm PST

Registration: <http://groups.engr.oregonstate.edu/asce/structural-engineering-institute-student-chapter>

Continuing Education Credits: 1 PDH

Zoom ID: 939 6698 2127

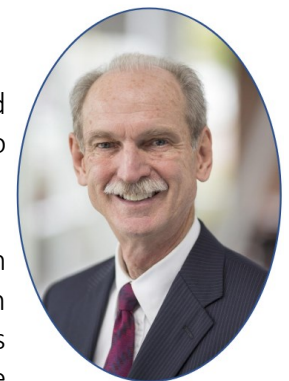
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Contact: Thomas Miller at thomas.miller@oregonstate.edu

Speaker: Don Dusenberry, P.E., SECB, F.SEI, F.ASCE

Don will discuss how PBD impacts the design profession and initiatives to encourage a transformation from prescriptive to performance-based approaches.

Don Dusenberry joined Simpson Gumpertz & Heger, Inc. in 1975, and he served as a Consulting Principal. He has taken part in numerous investigations, analyses, and peer reviews of buildings, bridges, and other structures. He has extensive experience in investigations of failed structures. Don is an active participant in professional organizations, and he served as President of the Board of Governors of ASCE-SEI. He chairs a committee developing a course to advance the profession from prescriptive to performance-based design practice. Don has written on failure investigations and structural performance under extreme events, including blast, fire, and disproportionate collapse.



This event is made possible by the [SEI Futures Fund](#) in collaboration with the ASCE Foundation.

AD HOC RESILIENCY COMMITTEE UPDATE

As discussed in past newsletters, SEAO formed an Ad Hoc Committee in March to help educate the membership on strategies to reduce the carbon footprint of the built environment. As part of this effort we are instituting an “Education Series” to discuss topics and strategies to reduce the Global Warming Potential (GWP) of the structures we design every day. The first of these is going to be focused on Environmental Product Declarations (EPD’s).

As a reminder we could use all your help in filling out the concrete mix survey (Link: <https://forms.gle/pDVg3vEuXjj7r9eg9>). Your participation in this survey will help the City of Portland help establish a GWP threshold for concrete mixes used on future City owned or solicited projects. We are hoping for a big push in the next month as the discussion on where to set the threshold will begin in the New Year.

We also continue to look for individuals interested in joining the committee. Thank you in advance for your help. Contact: er-ic.mcdonnell@holmesstructures.com

ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs) - AN OVERVIEW BY: JORDAN PALMERI MATERIALS MANAGEMENT PROGRAM, OREGON DEPT. OF ENVIRONMENTAL QUALITY

What are Environmental Product Declarations (EPDs)?

EPDs are product labels that disclose a selection of environmental impacts from producing building materials. EPDs are third-party verified against Product Category Rules (PCRs), a set of rules, requirements, and guidelines for a specific product category. PCRs are defined by international standards (ISO 14025/21930) and enable transparency and comparability between EPDs. Typically, EPDs measure and disclose impacts from raw material extraction, transport, and manufacturing. This is often referred to as “cradle to gate” and represents the “embodied” impacts of a building material. EPDs are based on a detailed accounting of material and energy inputs and outputs – a life cycle assessment study. EPDs serve two main functions: 1) help material producers identify environmental hot spots for targeted reduction strategies; and, 2) help consumers of building products choose lower impact products. EPDs are most often used to identify the carbon footprint of products, which is disclosed as the “Global Warming Potential” (GWP) in published EPDs.

Where can you find EPDs?

Currently, the best database of EPDs for structural materials is the [Embodied Carbon in Construction Calculator](#) (EC3). The [Transparency catalogue](#) is also a good resource. In Oregon, there’s been a particularly strong focus on developing EPDs for ready-mix concrete. These concrete EPDs are also available on [Oregon Concrete and Aggregate’s Producer’s Association website](#). In the Portland Metro area, EPDs are currently available from Cal Portland, Knife River, Cadman, and Wilsonville Concrete. Riverbend Materials offers EPDs in Salem, Eugene, and Corvallis, and Hooker Creek Concrete has EPDs in Bend.

How do I read EPDs?

EPDs are organized by product category and are sometimes formatted to look like a nutrition fact label on food products. This can help you make smart choices if you are trying to lower the GWP of your structure. It’s best to only compare EPDs that are of the same product. Compare concrete against concrete – wood against other wood. Although EPD results would allow you to compare a cubic meter of concrete to a cubic meter of wood, it is not a functionally

equivalent comparison and not useful. Most people use EPDs to review and compare the global warming potential (GWP) or the carbon footprint of products. “GWP” is often the abbreviated term used in reporting carbon impacts. Tools like EC3 organize and immediately compare the results of EPDs of the same product category.

How do EPDs relate to Life Cycle Assessments (LCA)?

Life cycle assessments (LCA) are detailed mass balancing studies of the inputs and outputs of a product system. Environmental impacts are then tallied for the material/energy/emissions flows. The results of product-specific LCAs study are communicated through an EPD. In today’s market, programs like LEED, Living Building Challenge, and others are challenging the AEC community to require more EPDs to facilitate lower impact material decisions. Often times, these same green building rating systems are driving project teams to model the embodied impacts of their materials using Whole Building Life Cycle Assessment. Project teams are increasingly using modelling tools like [Athena](#), [Tally](#), and [One-Click](#) to first evaluate their structural and envelope design decisions at a whole building scale. Once the design is finalized and the materials are chosen, EPDs can be used to choose the lowest impact product that meets your specs.

How can I use EPDs?

After structural materials are chosen and optimized to reduce their quantities, an engineer and/or contractor can use EPDs to help select the lowest impact product that meets the specifications. Let’s use concrete as an example since the engineer can play a particularly active role in lowering the embodied carbon of concrete mixes. A concrete producer typically has 5-10 different mixes in any given strength class. Lower carbon concrete uses less cement, which would be reflected as a lower GWP value in their EPDs. By selecting the lowest cement mix that still meets the structural and finishing requirements of the concrete, the engineer can significantly lower the embodied carbon. The EPDs allow the engineer to promote and quantify the reduction between available mix designs.

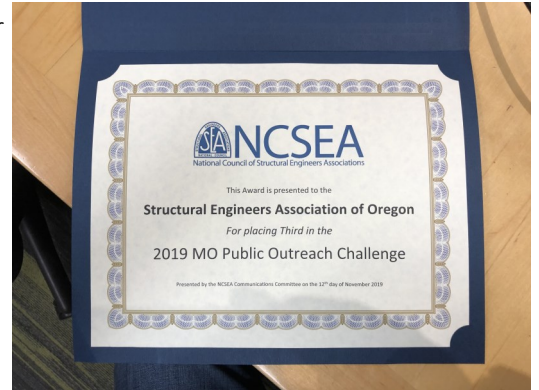
NCSEA PUBLIC OUTREACH CHALLENGE

SEAO was awarded third place in the national NCSEA 2019 Member Organization Public Outreach Challenge.

Our 2020 submissions are being compiled to be submitted as the deadline for 2020 submissions to SEAO was December 15th. SEAO is hopeful for another win.

SEAO invites members to continue to track their outreach efforts in 2021.

Visit <http://www.ncsea.com/awards/challenge/> and tell us how you're helping ensure that *"practicing structural engineers are recognized by clients, media, policymakers, educators, students, and the public for the value of their contributions to society."*



Each SEA may submit up to one entry for each of the following categories:

- Public Outreach
 - Creating or expanding your electronic engagement (*website, social media, e-newsletters*)
 - Assisting with publication of structural engineering media content (*newspapers, magazines, interviews, podcasts, video series*)
- Political Advocacy
 - Influencing public policy (*SE licensure, code adoptions*)
 - Providing educational and/or event opportunities supporting political actions
 - Supporting programs for engineers to stay in touch with political representatives and officials
- Students and Educators
 - Forming partnerships with schools
 - Offering mentoring or job shadow programs for college students
 - Awarding scholarships to students studying Structural Engineering
- Other Outreach Programs Related to Current NCSEA Initiatives:
 - Collaboration with allied organizations, i.e. ASCE/SEI, CASE, etc. to address issues relevant to the profession
 - Diversity, equity and inclusion efforts including those related to [NCSEA Call for Action](#), such as:
 - Advocacy efforts for underrepresented individuals in the middle school and high school levels
 - Mentoring programs for underrepresented professionals
 - Creation of and/or engagement with student chapters at the university level to increase the diversity of engagement in programs that lead to careers in structural engineering.

If you have any activities that meet the description above as an Outreach Program, please send them to Eric Davis at ericd@miller-se.com or feel free to contact him directly via email to ask any additional questions.

SEAO LINKED-IN INFORMATION

The Board is excited to announce that SEAO is now on the Linked-In website.

Please follow our page for a digital way to stay up-to-date on all upcoming events, announcements, and more.

Search for us on Linked-In or click on the following link and search for Structural Engineers Association of Oregon:
<https://www.linkedin.com/>

SE REFRESHER & EXAM REVIEW COURSE ON-LINE & ON-DEMAND

NCSEA's SE Review Course is completely on-demand. Review course materials and watch the recordings when it is convenient for you for an entire year. Plus, attendees have access to virtual classroom to ask the instructors questions whenever they arise. The NCEES PE Structural Exam Prep Course allows you to study at your own pace but with instant access to the material and instructors. All lectures are up-to-date on the most current codes.

The Virtual Classroom provides you an on-line chat room for course discussion with all the instructors and the students. In addition, students can email instructors directly with questions.

The Course includes:

- 30 Hours of Instruction (8 Vertical Sessions + 10 Lateral Sessions)
- Exam Preparation Tips
- Problem-Solving Skills to Pass the Exam
- Handouts & Quizzes
- The Virtual Classroom
- Exam Study Guide

Cost for NCSEA/SEAO Members: \$495

Non-Members: \$695

Group rates: See <http://www.ncsea.com/education/sereview/>

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 new Members!

Carlos Calle—DCI Engineers
Edward Tornberg—Rimkus Consulting Group
Josh Amundson—MD Structural Engineering
Mengzhe Gu—Holmes Structures
Elyssa Adams—Holmes Structures
Oliver Jim—Mackenzie
Morgane Bochet—Mackenzie
Annabel Shephard—PCS Structural Solutions
Jason Thompson—Catena Consulting Engineers
Stefanie Schulze—Catena Consulting Engineers
Jared Lewis—Catena Consulting Engineers
Chie VanderZanden—BK Engineers
Brandon Luzier—Froelich Engineers
Daren Houts—Silverton High School
Ben Hawken—Froelich Engineers
Jonathan Burks—Envista Forensics
Justin Kittelson—Kramer Gehlen
Hunter Rada—Mackenzie
Shrenik Bora—Lewis & VanVleet
Barry Maslen—Miller Consulting Engineers
David Marks—KPF Consulting Engineers
Elizabeth Wilson—Student
Masamichi Ikeda—JRMA
Vlad Slivkov—Bonneville Power Administration
Greg Wilken—City of Portland
Quaid Ebanks—Student
Samantha Schaffer—Mackenzie
Sean Duffy—Harris Group
Damian Andreani—Catena Consulting Engineers
Casey Severson—KPF Consulting Engineers
Priscila Carrijo—FDT Structural Specialties
Clemens Rossell—CJR Engineering
Leslie Zerbe—Holmes Structures
Marshall Stokes—Vista Structural Engineering
Joshua Kenny—Kleinschmidt Associates
Supratik Bose—SEFT Consulting Group
Phillip Gerwien—Hawaiian Electric
Rob Aman—IMEG Corp
Jason Hsia—PCS Structural Solutions
Giulio Leon Flores—Nuscale Power
Travis Redinger—Jackola Engineering & Architecture

WELCOME TO SEAO!

MEMBER SPOTLIGHT—SETH THOMAS, P.E., S.E. BY: STEVE TRAUTWEIN, PAST PRESIDENT SEAO



This month, SEAO's Member Spotlight shines on Seth Thomas. Seth has been a very active member of SEAO since 2012, performing in several roles, including Young Member Forum Chair, NCSEA Delegate, Code Committee, Vice President, and President. Seth works for KPFF and is currently working from home due to

the COVID pandemic. He lives in Vancouver with his wife, Joslin, and 15-month-old daughter, Kinsley (assisting dad with a call in photo above). He earned his bachelor's degree from University of Washington and his master's from Oregon State University. The SEAO Connections Newsletter interviewed Seth earlier this month and got to know more about him.

CONNECTIONS: Your first role with SEAO was as the Young Member Forum Chair. Tell us what YMF was like in the early days, and how it has developed.

SETH: Phil Davis and I were recruited into SEAO to help reboot the Young Member Forum by Ed Quesenberry and Jennifer Eggers. We started by reaching out to peers we knew, sending email blasts, and hosting happy hours. We did some Middle School and High School outreaches through a national program, trying to get kids excited about studying engineering. We also set up a program to help with PE exam prep.

CONNECTIONS: You've also been active in NCSEA, attending national conferences and representing SEAO as a Delegate. How has that experience contributed to your professional development?

SETH: My professional network is 100 times bigger than it would have been. I know engineers in pretty much every state across the country. So if I were to work on a project in New York, I have a contact I could call if I needed to know something about the local requirements.

CONNECTIONS: You were a major driver behind the new SEAO website. Tell us about a new feature that makes this site better.

SETH: The website has a really cool feature in your personal profile. You can scan and upload PDH's from anything you've attended, whether it's an internal office seminar or a national conference. All the SEAO lunch and dinner meetings that you attend are automatically populated. You can quickly run a report and print out a summary of your PDHs over any time range you need, including the certificates.

CONNECTIONS: What advice would you give to young engineers who want to get more involved in the Structural Engineering community beyond their firm?

SETH: I would say the easiest way is to get involved at the local level—SEAO or the local ASCE chapter. But there are opportunities for national committees as well. Pick something you're interested in; it doesn't have to be a technical code committee. There are all kinds of committees like the National Young Member Group. I went from chair

of our local YMF to being involved with the National Young Member Group Technical Support Committee. There are a lot of opportunities out there and everyone is looking for good volunteers. Just reach out to get involved, and then as you show you're going to contribute, opportunities will open up.

CONNECTIONS: Have you had a mentor, and if so, who?

SETH: Not an official one. I've had several people that I have looked to for advice over the years. You've got the ones within your firm, and then you've got external ones. The mentors I've had haven't been assigned to me, they've been "organic." It really comes down to, especially with everyone busy, the people looking for the mentorship have to reach out.

CONNECTIONS: What projects are you most proud of?

SETH: I've worked on some very cool projects over the years. When I was a very young engineer, I worked on a large seismic retrofit project for the Everett Boeing facility. If I remember correctly, it's the largest building in the world by volume, if you aggregate all the buildings that are adjacent to each other. I just wrapped up a really cool project in Newport where we designed a building for tsunamis. I'm currently working on the large Portland Airport expansion project, which is a \$1.5B job, that is the Terminal Core project.

CONNECTIONS: For you, what are the best and worst things about working from home during the pandemic?

SETH: The best thing for me is I save seven hours a week in commuting time. It allows me to be closer to my family. I can work until 5:00 and be playing with my kid at 5:05. The disadvantages, it's incredibly tough on the young engineers without a lot of experience not getting the mentorship and day-to-day interaction that was very valuable for me when I was a young engineer. As a project manager, that puts a lot on us. You have to reach out more diligently. Instead of just the informal walking by someone's desk and asking how things are going, you almost have to schedule things. Constant meetings are also tough. You used to get kind of a break between meetings, at least walking from one meeting to the next. Now you're three clicks of a button and five seconds between meetings.

CONNECTIONS: Where do you see yourself in 10 years?

SETH: I don't see myself leaving the Portland area. Both my wife and I have family here. I really do enjoy the job, so I'll probably be doing the same thing, hopefully working on some new and exciting projects.

CONNECTIONS: Is there anything else you'd like to say to the SEAO members?

SETH: Just get involved. There's a lot you can get out of SEAO, but you have to engage. I've gotten a lot out of it, and it took effort on my end. But there's value for everyone.

CONNECTIONS: Well Seth, I've certainly enjoyed working with you on the SEAO Board, and quickly came to respect what you bring to the table. Thank you for your time, and thank you for what you've done for SEAO!

EMPLOYMENT OPPORTUNITIES

VLMK ENGINEERING & DESIGN

Structural Engineer
Portland, OR

VLMK Engineering + Design is accepting applications for an experienced or mid-level Structural Engineer ranging from 3 to 10 years of experience who are passionate about engineering and want 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.

Pillar Consulting Group

Structural Engineer
Corvallis, OR

Pillar Consulting Group, Inc. is a long established engineering firm located in beautiful Corvallis, OR. We provide civil and structural engineering facility design services throughout the West Coast. Clients consist of architects, contractors, and facility owners.

We are looking for a well-qualified structural engineer with 2+ years of structural engineering experience to be a long-term partner. Experience with steel design and applicable building codes is a requirement. Experience with design in other materials as well as Revit is a plus. We offer health care including dental and vision as well as an IRA plan with company matching. Want to live and work in the Willamette Valley? Come join us! Prefer to stay in your current Oregon home? Lets talk.

Please visit www.pillar-inc.com for more information. Please send resumes to admin@pillar-inc.com.

OTAK, INC.

Senior Building Engineer
Portland, OR & Vancouver, WA

Otak, Inc. is seeking to hire a Senior Building Engineer to work in either our Vancouver, WA or Portland, OR offices. The primary duty of the Senior Building Engineer will include serving as a technical expert in engineering analysis and design for all structural aspects in support of architecturally designed and site development structures, perform complex structural planning, and have a proven background of technical leadership on these types of projects. Other duties also include the supervision of junior engineers in the performance of engineering tasks.

Qualifications:

- Bachelor's degree in Civil or Structural Engineering
- Registered Structural Engineer
- 10+ years of proven experience in all aspects of building structural engineering working directly with architecture and public Clients
- Solid client services and business development skills are required
- Proficiency with Microsoft Office software, current structural software applications
- Proficiency and familiarity with applicable Codes, including specialty codes such as the Oregon Structures Specialty Code, Washington State Building Code, etc.
- Demonstrated leadership skills, strong written and verbal communication skills and the ability to work with various teams throughout the organization

TO APPLY: https://www.otak.com/careers/open-positions/open-position-details/?gh_j...

Why work at Otak?

When you work at Otak, you aren't just joining a firm — you're joining a community. We believe our best work happens in a culture of collaboration and inclusion, where the expertise of diverse individuals can thrive in a foundation of teamwork. The work environment we create is built on a simple concept: working on interesting projects with interesting people. However, we don't just believe in cultivating our own community; we're also committed to enriching the communities around us with smart, creative solutions. We know our employees make an investment in us, so we're committed to making an investment in them.

(Continued on Page 8)

EMPLOYMENT OPPORTUNITIES (CONT.)

OTAK, INC. (CONT.)

Seasoned experts and young professionals work together to encourage personal growth and skill development at all experience levels. Plus, we're expanding — and we're dedicated to developing an internal infrastructure with the strength and talent to support that growth.

Otak employees have a progressive mindset and sustainable community perspective. We encourage our staff to volunteer in their communities by giving them an option to earn extra vacation time for their volunteer hours. Otak combines the best of a small firm mentality with strong collaboration across disciplines with the plentiful opportunities to work on exciting projects offered by a growing firm. We also encourage life balance and foster a fun work environment. Our Northwest sensibilities are reflected in our commitment to sustainability and diversity. And believing that diversity fosters innovation and strengthens our skills, we embrace a culture of inclusion and equity in our company and in our communities.

We are an equal opportunity employer. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability. We will provide reasonable accommodation for qualified individuals with a disability where appropriate.

Sound like a place you'd like to spend some time and advance your career? Join us! Please apply online and include a cover letter that sells your skills with your resume.

Visit our website to learn more: <https://www.otak.com/>

Send resumes to Shereen.Rodrigues@otak.com.

KURT FISCHER STRUCTURAL ENGINEERING

Structural Engineer

Portland, OR

Kurt Fischer Structural Engineering (www.kfseng.com) is looking for entry level or experienced structural engineers to join our new and expanding Portland office. KFSE provides innovative and creative solutions for the built environment. We are looking for passionate and ambitious structural engineers to join our versatile, progressive, and experienced firm. Current projects include: historic non-ductile concrete and URM seismic rehabilitation, mid-rise office buildings, residential apartment and mixed-use complexes, luxury residential, and a mid-rise luxury hotel.

We highly value our employees and strive to foster a positive and energetic work environment by providing engineers with the tools, resources, and mentoring to further their knowledge and career. There is ample opportunity for upward mobility within our firm, and we invite you to talk with us about exciting opportunities at KFSE. Contact: LT@kfseng.com

HOLMES STRUCTURES

Senior Engineers

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

Holmes Structures is a structural engineering firm, with offices in San Francisco, Los Angeles and Portland. We are part of the New Zealand based Holmes Group, with offices around the Pacific Rim. Compelled by the possibilities, we are relentlessly pursuing Why – to create what is Best.

We are seeking Senior Engineers for our San Francisco, Los Angeles, Portland and Seattle offices. Candidates should have a B.S. (M.S. preferred) in Structural Engineering, and 6+ years of related experience. Candidates must possess a valid PE license; SE license is also a plus. Candidates must be fast learners, ambitious, have the ability to handle increased responsibilities, have excellent verbal and written communication skills, and be able to interact effectively with clients, project teams, and colleagues.

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