



CONNECTIONS

September 2021 Volume 22 Issue 1

Newsletter of the
Structural Engineers
Association of Oregon

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Upcoming SEAO Meetings and Events:

Friday, September 24, 2021: AISC SteelDay Facility Tour

Time: 2 pm to 4 pm
Location: Alpha Iron, 5823 S. 6th Way, Ridgefield, WA 98682
Food: Snacks & Drinks Provided
Dress Code: Casual
Safety Gear: Provided (You are not required to bring your own gear)
Cost: Free
Register at: <https://steelday.aisc.org/>
See page 7 additional information.

Wednesday, September 29, 2021: SEAO Chapter Virtual Meeting

Topic: Improving Functional Recovery Using Replaceable Fuses
Speaker: Justin D. Marshall, PhD, PE—DuraFuse Frames
Time: 11:45 am to 1 pm
Link to Access Meeting: Register online at <https://www.seao.org/node/1831> and a link to the meeting will be sent via email the evening of September 28.
Cost: \$25 member, \$35 non-member, \$10 Affiliate Member
PDH: 1 Hour
See page 3 additional meeting information.

Wednesday, October 27, 2021: 7th Annual SEAO Excellence in Structural Engineering 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 October on SEAO Website
Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member
PDH: 1 Hour (no credit to Affiliate Member)
See page 5 for more information.

RESCHEDULED to February, 2022: NCSEA Structural Engineering Summit

NCSEA has postponed both the live event in New York and the virtual Summit events from October, 2021 to February, 2022. Specific dates for both events will be released by the end of September. Visit NCSEA at <http://www.ncsea.com/events/annualconference/> for more information.



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

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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9220 SW Barbur Blvd.
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PRESIDENT'S MESSAGE

BY: *DUSTY ANDREWS*



SEAO Members,

Is my term really over? As I look back at the last 12 months, I don't think it is anything any of us expected. I will be leaving the office without holding one in-person meeting. How is that possible? Easy, have a great Board of Directors and a supportive engineering community.

I am very proud of the organization and how we have traversed the white water of the last year. As we started the year, I wondered how, as an organization, we were going to provide value to our members with the current environment. SEAO members stepped up in a big way. Speaker meetings, a long-held tradition in SEAO pivoted to a digital platform. We were not sure how many would attend this new format. Thank you to all the speakers and attendees that made this process work. Committees continued to work hard including the addition of the SE3 Committee. Without your tireless efforts, we would not be able to advance the industry. Without the SEAO Tradeshow, our primary fundraiser for the Foundation, our YMF group answered the challenge by hosting the inaugural Trivia Night. It was wildly successful and we hope to build upon it in the future. The Awards banquet also pivoted to a digital event. The program was well received and the virtual happy hour was a good time to catch up with folks.

This would not have been possible without a great group of individuals. I would like to express my appreciation the current Board. You guys made my job easy. To our outgoing board members, Steve Trautwein, Alex Stroud, and James McPherson, thank you for several years of service. For those continuing on, Mike Daily, Eric Davis, and David Linton, I look forward to another year. And our incoming members, Peder Golberg, Jared Lewis, and Nisarg Mehta, I am excited for new perspectives and ideas. And finally, there are two people that really helped keep this train on the tracks. JoMarie Farrell does an awesome job creating this newsletter and I still don't know how she is able to collect all of the contributions in time to send each one out. Jane Ellsworth, she is the ultimate shepherd keeping all of the administrative things moving forward behind the scenes and reminding us how we got to where we are throughout the year.

With that, I ease into the coveted Past-President roll. I encourage the membership to keep contributing and volunteering as it is the life blood of the organization. No matter the size of the contribution, they make a difference whether it's through code changes or scholarships or anything in between.

Enjoy the moment

Dusty

BOARD OF DIRECTORS

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STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER)

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PROGRAM COMMITTEE

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Young Member Forum
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SEPTEMBER CHAPTER VIRTUAL MEETING WEDNESDAY, SEPTEMBER 29, 2021, 11:45 AM–1:00 PM

Topic: Improving Functional Recovery Using Replaceable Fuses

Description: Current building codes rely on high ductility systems to meet life safety requirements. Buildings designed to this standard may be impractical to repair following a severe earthquake. Efforts are being made to update building code requirements so that they address re-occupancy and functional recovery. One option being considered is to design more structures as Risk Category IV (higher strength and higher stiffness). This would be costly and may not provide the expected impact. Another option would be to use a technology like base isolation or supplemental viscous damping which adds significant cost and complexity. A complementary or alternative option is to improve the reparability of structures so they can be returned to service after severe earthquakes. Various replaceable fuse concepts have been explored with the most practical concepts already being used in practice.



Speaker: Justin D. Marshall, PhD, PE, DuraFuse Frames

Justin Marshall is the President of DuraFuse Frames. He received his B.S. and M.S. in Civil Engineering from Brigham Young University and then worked as a structural engineer in upstate New York for 4 years. He then earned his PhD from Virginia Tech and took a faculty position at Auburn University. His time at Auburn included teaching structural engineering and doing research on seismic and wind engineering. He has been involved in several post-disaster reconnaissance efforts and has served on the Seismic Subcommittee for ASCE 7-16 and 7-22 to update the standards. He is licensed in Utah, California, and Nevada.



SEAO will also be installing our new 2021-2022 board members.

Date: Wednesday, September 29, 2021

Time: 11:45 am—1:00 pm

Sign-up: Register at <https://www.seao.org/node/1831> and a link will be provided via email the evening before the meeting for signing into the meeting

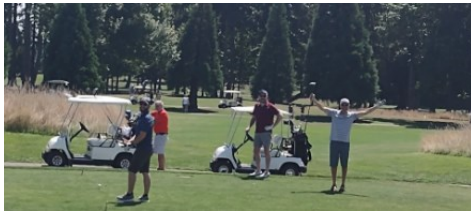
Cost: \$25 Member, \$35 Non-member, \$10 Affiliate Member

PDH Credit: 1 PDH is recommended for this program.

Questions: Contact Jane Ellsworth at jane@seao.org

2021 SEAO/OACI ANNUAL GOLF TOURNAMENT RESULTS

This year's golf tournament was a huge success. It was held at The Reserve Vineyards & Golf Club in Aloha, Oregon on July 28, 2021. It was a festive day of golf and finished with a delicious dinner, awards for winners, and a raffle. The winners include the following:



1 st Place	2 nd Place	3 rd Place
Kevin Kaplan	Korey Shimojima	Bryce Gruba
Ken Rust	Neil Antonini	Greg Keim
Stephen Stenberg	Doug Wolf	David Hill
	Steven McBride	
LONG DRIVE	KP	
Jerred Seamons	Stephen Stenberg	
Bryce Gruba	Leandro Pimenta	

RAFFLE PRIZE WINNERS

42" TV – Randy Baker – Schuepbach Builders
 Ocean Salmon Trip for 4 – Randy Romeo – Knife River
 Power Washer – Ralph Turnbaugh – TM Rippey
 Yeti Cooler 65 – Kevin McCormick – Miller Consulting Engineers
 Yeti Backflip 24 – Brandon Benfield—Vanlom Concrete
 Garmin Watch – Korey Shimojima—Pioneer Waterproofing
 Kegerator – Randy Backer—Schuepbach Builders
 BBQ, Weber—Melissa Knudsen—Larusso Concrete
 Drone—Tom Clark—Robertson Olsen
 Blackstone Grill—Jeremy Loeb—Alpha Iron
 Traeger—Alex Daddow—Simpson Strong-Tie
 Bose Speaker Sound Bar—Anthony Boudon—Miller Consulting Engineers
 Bose Noise Canceling Headphones - Brent Haberly—West Motor
 Box of Cigars—Tim Terich—Froelich Engineers
 Fishing Backpacks—Todd Rowell—Rowell Engineering
 Fishing Backpacks—Tony Thompson—GCP
 Bluetooth Speaker JBL Clip—Tuan Luu—MDG
 Remarkable2—Pat Merriman—Mason Supply
 Wheelbarrow—Anthony Boudon—Miller Consulting Engineers
 Golf Ball Finding Glasses—Kevin McCormick—Miller Consulting Engineers
 Portable Ice Maker—Jeff Brookman—Mason Supply
 Driver Drink Dispenser—Stephen Stenberg—VLMK
 Chainsaw—Aaron Kurtz—Schuepbach Builders
 Folding Tailgate Table—Shawn Snow—Knife River
 Google Home—Jim Courson—Mason Supply

Congratulations to all the winners and thanks to all the wonderful donations from our sponsors! We are already looking forward to next year's tournament in late July, 2022!

CALL FOR PAPERS 12TH NATIONAL CONFERENCE ON EARTHQUAKE ENGINEERING

We are excited to announce the Call for Papers for the 12th National Conference on Earthquake Engineering (12NCEE) is now open! Visit <https://12ncee.org/call-for-papers> for more information on how to submit session proposals and papers. Special session proposals are due **September 24**, and papers are due **October 15**. Please note that there will be no preliminary abstract submission and review—the first and only submission will be a 4-page paper manuscript.

12NCEE is a milestone conference hosted by the Earthquake Engineering Research Institute (EERI), meeting June 27-July 1 2022, in downtown Salt Lake City, Utah. 12NCEE will bring together professionals from a broad range of earthquake-relevant disciplines, providing an opportunity for researchers and practitioners to share the latest knowledge and techniques to better understand and mitigate the damaging effects of earthquakes and tsunamis. Timely and relevant lessons from the COVID-19 pandemic are also expected. The 2022 EERI Annual Meeting and EERI's Annual Undergraduate Seismic Design Competition will take place concurrently. A limited number of registration grants will be available for students, early-career academics, and early-career professionals. For more information, visit <https://12ncee.org>. We look forward to seeing you next summer in Salt Lake City!

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.

**AWARDS COMMITTEE UPDATE:
SEAO EXCELLENCE IN STRUCTURAL
ENGINEERING VIRTUAL AWARDS
PROGRAM & CHAPTER MEETING
OCTOBER 27, 2021**

SEAO entries for the seventh annual Excellence in Structural Awards are currently being evaluated by our judges. The Awards will acknowledge outstanding projects and structural engineering achievement.

Finalists will be notified in early October. Awards will be presented at the October Chapter virtual lunch meeting on October 27, 2021.

We were hoping to be a live dinner banquet, but we are following the recommendations of the public health authorities to minimize large indoor gatherings.

Thank you to all of our members who were able to submit a project this year.

Our new entry system was brought online via the SEAO website, and we are curious how the process went for those of you who submitted projects for consideration. If you have a moment, please send your comments on the new website submittal platform to jomarie@equilibriumllc.com. The Awards committee is committed to making the entry process as easy as possible for our members.

Sign-up information will be available in the October newsletter. For now, SAVE THE DATE: October 27, 2021, 11:45 am—1:00 pm. 1 PDH credit hour will be awarded for attending the Awards program.

**SEER UPDATE SEPTEMBER 2021
BY: DAVID TARRIES**

Great News!! We have received word that the Office of the State Fire Marshal has obtained funding for the OrSAP program as of January 1, 2022. They will be looking to hire people (possibly 2) to run the program from Salem and then will put together a steering committee to help them develop the program. We hope that the SEAO SEER Committee is very involved with the steering committee and will be able to show them that a program very similar to Cal OES SAP and WaSafe would work great for Oregon. Training programs have already been created that can be used to develop Oregon-specific training and the State already has software similar to what WaSafe uses to record and contact people when needed. A website for the program should be available in the near future so check back for updates.

If anyone is interested in being considered for the steering committee, please email your information to seer@seao.org.

Forest fires and other disasters will be part of the OrSAP scope, so volunteers for these committees with expertise in those areas could be useful. A list will be created and sent to the Fire Marshal for their use.

If there are any other questions about OrSAP, please email seer@seao.org.

2021-2022 SEAO BOARD

The following members have been elected to this year's Board and will be installed at the virtual September Chapter meeting:

President:	David Linton
Vice President:	Peder Golberg
Secretary:	Jared Lewis
Treasurer:	Mike Daily
Directors:	Nisarg Mehta (1st Year of 2-year Term) Eric Davis (2nd Year of 2-year Term)
Past President:	Dusty Andrews

Congratulations and many thanks to the incoming Board for the time and efforts they will provide over the course of the next year. We would also like to thank our outgoing board members, Steve Trautwein, Alexandra Stroud, and James McPherson, for their time and support of SEAO!

EMPLOYMENT OPPORTUNITIES

IMEG

Senior Structural Engineer
Portland, OR



IMEG is seeking a Senior Structural Engineer to take on a leadership role in our Portland, Oregon office.

Principal Responsibilities

Makes major design recommendations and design decisions with little input from senior staff; Plans design work by discipline for all project sizes and assigns duties to staff working on projects; Reviews correspondence prepared by junior staff; Actively participates in quality control of projects; Technical Path: Contributes to leadership in some aspect of our Technical Operations Team for both large and small projects; Acts as an advisor and analyzes technical problems/writes reports; Plays a significant role in project reviews for quality control for large complex projects; Provides technical assistance to help resolve field issues, must be able to visit project sites and resolve technical issues with very little assistance from other senior staff.

For additional information and to apply online for Senior Structural Engineer III click on the following link: [R-10557](#). Or email: Edwin.t.dean@imegcorp.com

GRUMMEL ENGINEERING

Structural Engineer
Portland, OR

At Grummel Engineering, we care deeply about the creativity and quality of the designs we produce, and even more about the people contributing to these designs. Our philosophy encourages engaged working hours to give us the flexibility to enjoy our lives outside work.

Grummel Engineering LLC (www.grummelengineering.com) is seeking Structural Engineers at all experience levels. Candidates should have a B.S (M.S. preferred) in Civil Engineering, with an emphasis in structures. Engineers with an interest in participating in all steps of a project, including client relations, site visits, fee estimating, schematic, construction and permit documentation and analysis, and construction support with a variety of building materials and project scales are encouraged to apply. Grummel Engineering actively seeks avenues to contribute to our community by encouraging staff participation and recommendations for volunteer opportunities. Grummel Engineering is an equal opportunity employer.

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

MD STRUCTURAL ENGINEERING

Structural Engineer
Vancouver, WA

MD Structural Engineering, Inc. is an expanding structural engineering firm, located in downtown Vancouver, WA. 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, and 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.

Visit our website to learn more about us: <https://www.mdstructural.com/>

Please send resumes to: noot@mdstructural.com

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 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.



STEELDAY

Shop tours with Equipment demonstration's. Multiple product vendors to give demonstrations of their products. Hilti, Airgas, Stud Welding Products, Valmont Coatings.

About Your Host

Alpha Iron is an advanced Steel Fabricator. We have the latest robotic Processing and Fabrication technology at our facility. This gives us the ability to produce with highest quality and efficiency while maintaining a safe work environment. Multiple Vendors onsite doing product demos. Many hands on experiences like: Operating a Bridge Crane Shooting Weld Studs Installing decking Using a Total Station Operating Peddinghaus Rotators Welding

Event Type:	Facility Tour
Date:	09/24/2021
Time:	2:00 PM - 4:00 PM PT
Location:	5823 S. 6th Way, Ridgefield, WA 98682
Website:	AISTEEL.US
Food:	Snacks and Drinks Provided
Dress Code:	Casual
Safety Gear:	Provided,Not Needed



Sign Up!

www.steelday.org

Contact your host

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Shawnj@aisteel.us



Smarter. Stronger. Steel.
American Institute of Steel Construction
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www.aisc.org

SteelDay is an annual event hosted by the American Institute of Steel Construction, its members and partners. Plan your SteelDay visits and see firsthand why it makes sense to build with steel.

**Smarter.
Stronger.
SteelDay.**