



In Brief

CONNECTIONS

March 2022 Volume 22 Issue 5

Newsletter of the
Structural Engineers
Association of Oregon

SEAO

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SEAO has a LinkedIn account
and can be followed at [SEAO
LinkedIn Page](#).

Upcoming SEAO Meetings and Events:

Friday, April 15, 2022: SE3 Member Sign-up and Elections

See Pages 4 and 10 for Additional Information

Wednesday, April 27, 2022: Virtual SEAO Lunch Chapter Meeting

Topic: Winner of the 2021 Excellence in Structural Engineering Award for New Buildings
Between \$10 Million and \$40 Million: The Canyons

Speaker: Michael Clark, P.E. and Michael Poulos, P.E., S.E., Catena Consulting Engineers

Time: Noon to 1:00 pm

Location: Virtual

Registration: <https://www.seao.org/events/apr2022/canyons>

PDH: 1 Hour (no credit to Affiliate Member)

See Page 2 for Additional Information

Thursday, May 5, 2022: Oregon ACI Seminar

Topic: Troubleshooting Concrete Forming & Shoring

Speaker: Kim Basham, PhD, PE, FACI

Time: 7 am—7:30 am Registration

7:30 am—8:00 am Continental Breakfast

8 am—4 pm Program (Lunch included from noon to 1 pm)

Location: Crowne Plaza Hotel, 14811 Kruse Oaks Drive, Lake Oswego, OR

PDH: 6 Hours

See Page 4 for Additional Information

Wednesday, May 25, 2022: Virtual SEAO Lunch Chapter Meeting (Save the Date)

Topic: Surfside Condominium Collapse

Time: Noon to 1:30 pm

Location: Virtual

PDH: 1 Hour (no credit to Affiliate Member)

Wednesday, August 10, 2022: SEAO/OACI Golf Tournament

Location: Langdon Farms Golf Club, 24377 NE Airport Road #1, Aurora, OR

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

See Pages 8 and 9 for Additional Information

CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

Send membership inquiries to:

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APRIL CHAPTER VIRTUAL MEETING WEDNESDAY, APRIL 27, 2022, NOON–1:00 PM

Topic: Winner of the 2021 Excellence in Structural Engineering Award for New Buildings Between \$10 Million and \$40 Million: The Canyons

Description: The Canyons is a unique project born out of a commitment to use mass timber (CLT) in building structures typically dominated by more traditional materials. The five-story, 110,000-square-foot CLT-framed apartment building features a series of interconnected CLT bridges to allow ease of movement throughout the 70-unit building. The building provides retail and care-based services for residents who want to age-in-place and maintain an active lifestyle. The structure is a five-over-one podium with the upper levels constructed of stick-framed wood walls, wood shear walls, and CLT roof and floor decks. The lower levels are PT slabs with concrete columns and shear walls. The CLT panel layout and configuration created an undulating outdoor corridor between wings of the building. To achieve this design, CLT panels were used in atypical span conditions requiring finite element modeling. Testing was conducted at Oregon State University to validate our models. In the end, the panels outperformed expectations and did not exhibit any signs of strain even after applying 3.5x the design loading. This \$21 million project opened up for residential living in Fall 2020.

Speakers from catena consulting engineers:

Michael P. Clark, PE

Mike joined catena consulting engineers in 2016 and serves as a Project Engineer. He brings together thorough structural design work and a natural ability to coordinate and manage tasks and projects. Mike's project experience includes new design as well as renovations to existing occupied facilities to create modern environments. Mike earned his Bachelor of Science in Physics from The State University of New York, Geneseo and his Master of Science in Structural and Earthquake Engineering from The State University of New York, Buffalo. Working from his home in Buffalo, New York, Mike enjoys camping, playing with his dogs and going to various brew pubs throughout his community.

Michael D. Poulos, PE, SE

Since joining catena consulting engineers in 2016, Mike Poulos has worked on the firm's largest and most complex projects. With 18 years of engineering experience, he brings extensive project management skills and an impressive ability to bring project details and design together. His collaborative design experience, project stewardship, and calm demeanor are immediate benefits for every project. Mike earned his Bachelor of Science in Civil Engineering from University of Dayton and his Master of Science in Civil Engineering from University of Illinois, Chicago. Outside of his project responsibilities, Mike can be found feeding the iconic Belmont goats, playing with his dogs, or Barbequing in his backyard.

Date: Wednesday, April 27, 2022

Time: Noon—1:00 pm

Sign-up: Register at <https://www.seao.org/events/apr2022/canyons> 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

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TRIVIA FUNDRAISER FOR SEAOSF

As this year's in-person February tradeshow was not able to be held to raise funds for the SEAOSF Scholarship Foundation (SEAOSF), the YMF organized a Trivia Night to raise funds for the SEAOSF.

Nine teams were registered, and the competition was fierce.

Teams participating included:

Akana

Catena Consulting Engineers (2 teams)

DCI Engineers

Equilibrium Engineers, LLC

Mackenzie

Simpson Strong-Tie

Verco Decking, Inc

VLMK Engineering + Design

First place & \$100 prize: Catena, Power CatenPuff Girls

Second place & \$50 prize: Akana

Third place & \$25 prize: Verco Decking, Inc.

Team names were entertaining on their own. In addition to those listed above, team names included: DCI Decoders, No Equal; Equilibrium United, Murphiticus & the Hartment, and VLMKrew.

Trivia night has turned into a great fundraiser and it is through membership participation in these events that SEAOSF has the ability to provide scholarships to students studying structural/civil engineering in college.

Together with the mini-webinars that were held last month, a total of \$1,650 was raised for SEAOSF.

SEAOSF would like to thank the YMF for organizing the Trivia Night event.

MEMBER SPOTLIGHT



This month's SEAO member spotlight is Emma Olds. Emma has been active within SEAO for over past two years. Emma is the current co-chair of the SEAO YMF and

has served as the outreach officer for the YMF before that. She has been instrumental in the inception and organization of SEAO's Structural Engineering trivia nights.

Emma graduated from Oregon State University with her Bachelor of Science in Civil Engineering in 2018. She has been working at VLMK since, doing a variety of retail and residential projects. She works on a lot of tenant improvement work at VLMK, and she finds the challenge of working in existing spaces and coming up with creative solutions very rewarding. She also has over a year of experience with other companies that included extensive project management for Pierce County (Tacoma, WA) and structural design related to industrial plants and equipment manufacturers for Evergreen Engineering.

While being involved with SEAO's YMF, Emma is also an active alumnus in the engineering sorority Phi Sigma Rho. When she is not at work, Emma enjoys the wonders of Oregon by getting her truck out to camp and hike in the summer and snowboard in the winter.

Fun fact: Emma has lived in 5 different countries and 20 different houses/apartments!

Thank you, Emma, for all you do for SEAO.

OREGON ACI SEMINAR MAY 5, 2022

Topic: Troubleshooting Concrete Forming & Shoring
Speaker: Kim Basham, PhD, PE, FACI
KB Engineering, LLC, Senior Structural Engineer
Time: 7:00 to 4:00 pm
Location: Crowne Plaza Hotel, 14811 Kruse Oaks Drive, Lake Oswego, OR

One-day seminar for contractors and engineers. Attendees will learn tips and traps associated with form stripping and reshoring and will work through calculations for a reshoring problem. Instructor will address tolerances for vertical alignment and slope, slab deflections, balcony drainage issues, and tolerance incompatibilities with cladding materials. Expectations for formed surface quality will be covered with tips for minimizing surface effects such as bug holes that can lead to disputes. Attendees will also learn about different as-cast form finishes, surface blemishes versus defects, and how to achieve forming economies and compute form pressures. Advanced topics such as one-sided wall forming, and forming cantilevers.

Register at: <https://oregonaci.org/meetinginfo.php?id=23&ts=1619552592>

UPCOMING SE3 MEMBER SIGN-UP AND ELECTIONS

The Oregon Chapter of Structural Engineering Engagement and Equity (SE3) is holding our annual elections this month on **Friday, April 15**. If you are interested in running for one of our available leadership positions, signing-up to be a member, or simply looking to be on our email list, **please complete this form by Friday, April 8:** <https://tinyurl.com/SE3SIGNUP>

SE3 is an SEAO committee with the mission of improving engagement and equity in the structural engineering profession. Joining SE3 means you will participate in our pursuit to empower structural engineers in Oregon. Our work includes, but is not limited to, organizing panel discussions, mentorship programs, seminars, and community events.

The SE3 Committee welcomes any and all perspectives. Please submit any questions through the form above. Also see page 10, for additional info on our Call to Action flyer!

Look forward to collaborating with you!
SEAO SE3 Committee

YMF UPDATE

YMF happy hours continue to be held in-person every third Thursday of the month.

This month's happy hour was held at Rogue Eastside on March 17th at 6 pm.

If you would like to be added to the email distribution list that announces future YMF events to their members, please email ymf.seao@gmail.com. If you ask to be added and don't see emails from YMF, please check your spam folder as it is distributed as a mass email and some servers read them as spam until you add them to your "safe senders" list.

ANNUAL TRADESHOW

The SEAO Tradeshow will be moving from the month of February to April.

The next tradeshow will be on April 26, 2023. So mark your calendars for the new date.

The SEAO board is hopeful that we will return to our regular format for in-person mini seminars, vendor tradeshow booths, dinner, and raffle. It will be an event that provides the opportunity to obtain free PDHs and information on the latest products and services available to members.

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.

NCSEA UPCOMING WEBINARS

April 12, 2022, 10:00 am PDT

Ground Improvement and the Structural Engineer

Speaker: Rimas Veitas, P.E. founded Helical Drilling in 1986 and is currently active as CEO. Helical Drilling is a 96-person Design/Building Specialty Geotechnical Contractor.

April 19th, 2022, 10 am PDT

CalOES Safety Assessment Program—Day 1

Speakers: Derek Hanson, PE & Klaus Perkins, PE, SE
Assessment is based on ATC20/45 methodologies and forms.

April 20th, 2022, 10 am PDT

CalOES Safety Assessment Program—Day 2

Speakers: Derek Hanson, PE & Klaus Perkins, PE, SE
Final day of training program started on April 19, 2022..

June 14th, 2022, 10 am PDT

Fire-Resistance Design of Mass Timber and Connections per 2021 IBC

Speaker: John "Buddy" Showalter, PE
Buddy is a senior staff engineer with the ICC product development group. He develops technical resources in support of the structural provisions of the IBC.

Visit NCSEA's website <http://www.ncsea.com/education/webinars/> to view all upcoming webinars.

2022 SEAO EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

The SEAO website is now accepting entries for 2022 SEAO Awards. Visit the seao.org website, login, and select the SEAO Award Submission button. Make sure you enter the "Work in Progress" section and you will be ready to go. Remember, you can work on your entries over the course of several days or even months.

The judges have requested that entrants be as descriptive as possible about their structural aspects of the project.

We want to see what you have been working on! Start thinking about a project or projects you want to enter.

EMPLOYMENT OPPORTUNITIES

CATENA ENGINEERS

Structural Engineer
Portland, OR

catena consulting engineers provides the personal environment of a small firm while providing the opportunity to work on a variety of projects.

Our projects vary in size from a single day's effort to large projects with construction values in excess of \$300 million. You will gain design experience in concrete, steel, timber, and masonry buildings and will work on a wide variety of project types, including buildings created for healing, learning, living, and interacting.

Due to the technical complexity and challenge of many of our projects, we seek engineers that hold a Masters degree, and that have a desire to learn, grow, and be challenged. U.S. citizenship is preferred. We are currently seeking engineers at all levels of experience in structural engineering for buildings.

For a detailed advertisement and to submit your resume, visit our website <http://www.catenaengineers.com/opportunities.php>

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.

HOLMES STRUCTURES

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

Holmes is a structural and fire engineering firm, with offices in San Francisco, Los Angeles, Portland, and Seattle. 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 Engineers for our San Francisco, Los Angeles, Portland and Seattle offices. 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. We are looking for all levels of Engineers.

Check us out at www.holmes.us. INTERESTED IN JOINING US? PLEASE visit [Holmes - Career Page](#) TO SUBMIT AN APPLICATION.

PACIFICORP

Structural Engineer
Portland, OR
Salt Lake City, UT

PacifiCorp is a leading electrical energy utility company is looking for talented, enthusiastic, and skilled structural/civil engineers for the design of substation steel structures and foundations with 2 or more years' experience. Preference to experience with substation or industrial engineering.

Apply at [Civil/Structural Engineer \(Eng. II or Sr Eng.\) Salt Lake City, UT - #107316 \(pacificorp.com\)](#).

We are looking for applicants in Salt Lake City and Portland Offices.

EMPLOYMENT OPPORTUNITIES (CONT.)

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, 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

SMG ENGINEERS

Structural Engineer
Beaverton, OR
Missoula, MT

SMG Engineers is a consulting design firm with a focus on heavy industrial and construction engineering. We are looking to add a structural engineer to our skilled team of dedicated, innovative professionals whose intelligent, cost-effective designs, and excellent service have earned SMG a highly respected reputation in the field of engineering. The number of long-term employees at SMG reflects a high level of job satisfaction.

SMG is looking for a licensed PE for our Missoula, MT or Beaverton, OR office. Strong communications skills are a must and graduate level Structural Engineering degree with a SE license is preferred. SMG offers a competitive wage, bonus, and benefit package in a family-friendly work environment. If you are interested in a career at SMG, please send a resume to smg@smgengr.com.

CITY OF PORTLAND

Structural Engineer
Portland, OR

The City of Portland, Bureau of Development Services is seeking a Structural Engineer

Engineers at BDS review the structural portion of permit applications to ensure compliance with applicable codes and regulations that include a full range of commercial and residential structures.

Qualifications: Candidates must be Registered Professional Civil or Structural Engineers with an extensive background in structural engineering.

City of Portland offers competitive compensation and an excellent benefit package that includes an insurance plan with coverage for medical, dental, vision, life, and long-term disability; generous vacation and sick leave accrual benefits; several paid holidays; City-paid retirement contributions; and an employee-paid Deferred Compensation Plan.

For more information or **TO APPLY**, please visit www.portlandoregon.gov/jobs and consider attending an optional virtual information session, on either 4/8/2022, 12:00pm -1:00 pm **OR** 4/13/2022, 5:00 - 6:00 pm.

To register, email Sara Flores at Sara.Flores@portlandoregon.gov at least 24 hours prior to session.

Deadline to Apply: April 25, 2022

2022 SEAO / OACI GOLF TOURNAMENT



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

AUG. 10TH, 2022
Langdon Farms Golf Club
1:00 PM SHOTGUN START!

WHEN:

DATE: Wednesday, August 10th
SHOTGUN START: 1:00PM
SOCIAL HOUR: 6:00PM
DINNER & AWARDS: 6:30–7:30PM

WHERE:

Langdon Farms Golf Club
24377 Airport Rd NE
Aurora, OR 97002
Phone: (503) 678-4653

EVENT DETAILS:

This year, OACI and SEAO will be hosting the 2022 Golf Tournament at the premiere Portland area Golf Club, Langdon Farms!

Langdon Farms Golf Club remains, as stated at the entrance, "Public Only." For several years, the course hosted the local US Open qualifier where the lowest all-time score was 67, 4 under par. In 1995, noted architects Bob Cupp and John Fought designed Langdon Farms with dynamic mounding, strategic bunkering, and well-placed water features that make their links-style golf course stand out. The 18-hole "Langdon Farm" course features 6,935 yards of golf from the longest tees for a par of 71. The course rating is 73.3, and it has a slope rating of 125 on Blue grass.

Appropriate "Country Club" attire is required:

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

TOURNAMENT:

4-Player Team Scrambles

DINNER:

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

CONTACT:

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

REGISTRATION:

RETURN THIS ENTRY FORM BY JULY 7th TO:
SEAO
PO BOX 2958
Vancouver, WA 98668

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

TEAM FEE LEVELS: choose one...



PAR LEVEL: \$175/player

(Includes 2 raffle tickets, green fee, golf cart, driving range, dinner, and Team items*)



BIRDE LEVEL: \$195/player

(Includes 7 raffle tickets, green fee, golf cart, driving range, dinner, and Team items*)

***Included with every team registration: 4 (four) Mulligans total (1 per player) and 1 (one) Five-Foot String, per Team.**

Player Names	Membership	Payment Enclosed
	<input type="checkbox"/> SEAO <input type="checkbox"/> OACI	\$ _____
	<input type="checkbox"/> SEAO <input type="checkbox"/> OACI	\$ _____
	<input type="checkbox"/> SEAO <input type="checkbox"/> OACI	\$ _____
	<input type="checkbox"/> SEAO <input type="checkbox"/> OACI	\$ _____

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: _____

2022
SEAO / OACI
GOLF TOURNAMENT



AUG. 10TH, 2022
Langdon Farms Golf Club
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 - \$275
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:

ADDITIONAL 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)

- ☐ **Sponsor Provided Raffle Prize:**
(ex: Sport Event Seats, Electronics, Golf Gear, Gift Cards, etc)
(If you would like to sponsor by providing your own Raffle Prize, please list and describe any prizes below.)

Please Return This Form A.S.A.P. to:
SEAO
PO BOX 2958
Vancouver, WA 98668

Pay By MAIL: ☐ **Check Included**

TOTAL: \$ _____

Name:
As it appears on Credit Card

Contact Phone #:

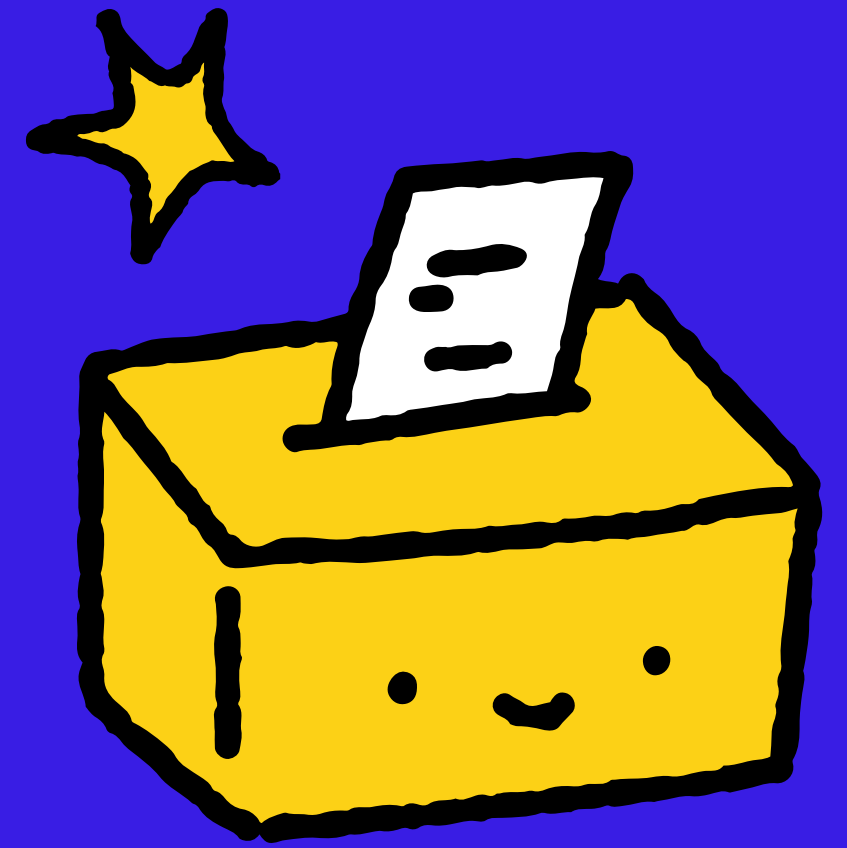
Credit Card #:

Credit Card Exp Date:

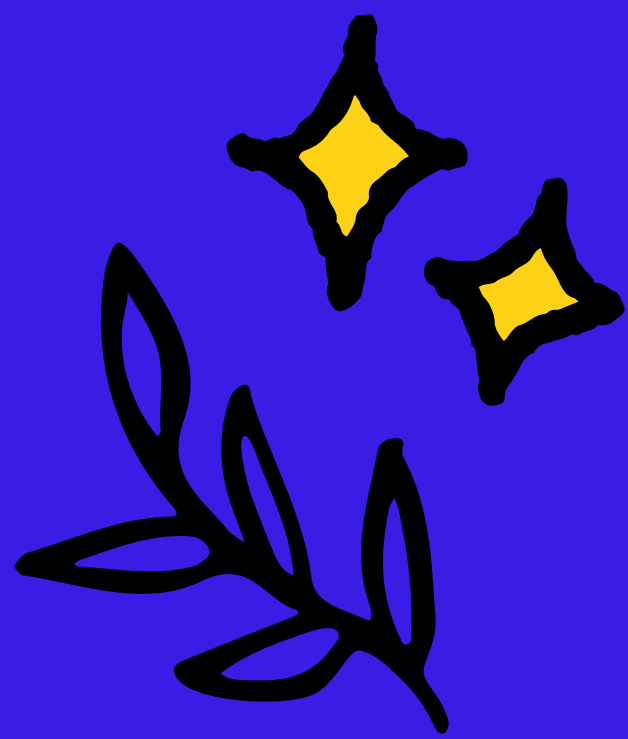
3-Digit Code:
On back of Credit Card

Billing Zip Code:

CALL TO ACTION!



Join your local chapter of SE3 and work to support and empower structural engineers in Oregon.



DO YOU WANT TO...

Be a **LEADER**

Run for a leadership position in our upcoming elections.

Be a **MEMBER**

Sign-up to become a member of our amazing team.

Be **INFORMED**

Join our email list or ask a question.

...then complete the survey by
Friday, April 8!

SURVEY: <https://tinyurl.com/SE3SIGNUP>