



STRUCTURAL ENGINEERS OF COLORADO NEWSLETTER

**2022 SUMMER SCHEDULE
SIGN UP FOR THESE EVENTS
AT
[HTTPS://
SEACOLORADO.ORG/](https://seacolorado.org/)**

**Fall 2022 SE/PE Study
Group Kick-off**
July 13, 2022
Blue Moon Brewing Co.
6:30pm-7:30pm

**SEAC July General
Meeting**
July 21, 2022
NEW LOCATION
PPA Event Center
7:30am-9:00am

**SEAC NoCo Committee
Meeting**
July 21, 2022
Front Range Community
College
7:30am-9:00am

**SEAC YMG Zimkor Shop
Tour**
July 21, 2022
Zimkor Fabrication Shop
2:00pm-3:30pm

July General Meeting

SEAC July General Meeting

July 21, 2022

NOTE: PPA Event Center (NEW LOCATION**)!!!!!!!!!!**
2105 Decatur St., Denver CO (by Empower Field)
Free parking in the lot south of the Event Center

7:30am-8am—Announcements and Networking
8am-9am—Presentation
1 PDH

Presentation: Performing schematic design on your feet. Tips and tricks for early design.

In the fast-paced world of structural engineering, where we are asked to provide preliminary pricing information on a moments notice, it can be helpful to utilize quick design methods.

This presentation will discuss ways in which early structural designs can be established or checked using hand calculation or simple modeling methods.



Presenter: Tim Lack, PE - Principal, Martin/Martin - Tim has been involved in the structural design and management of a variety of structures including stadiums, arenas, practice facilities, sports complexes, convention centers, and mixed-use facilities. He also designs and evaluates various long-span structures. His experience includes project management of many large and complex projects from airports to retractable-roof stadiums. Tim has extensive experience with design-build projects and is actively involved in true collaboration within the design and construction team.

Mark Your Calendar for Future SEAC Meetings

- **September 15—SEAC Member General Meeting 7:30am-9:00am**
- **October 13—SEAC Fall Seminar 7:00am-12:30pm**
- **November 10—SEAC Annual Meeting 4:30pm-8:00pm**

COMMITTEE NEWS

Structural Engineers Association of Colorado

Education Committee

SEAC June WELLS Concrete Precast Manufacturing Tour

The SEAC Education Committee and Wells Concrete hosted the precast manufacturing facility tour at the Wells facility in Brighton on June 23, 2022.

Thank you to Dan Parker and the tour guides at Wells Concrete and all their employees for providing this learning opportunity.

SEAC members and guests learned about the various architectural and structural precast elements while touring their new office building, the precast mockups and formwork, the wood and steel fabrication shop, the main production and outside production areas where the prestressed concrete, and the quality control lab. The tour covered all aspects of precast from the in-office work performed to the finishing process and shipping.

The SEAC tour had 31 attendees touring in 3 smaller groups.



COMMITTEE NEWS

Structural Engineers Association of Colorado

2022 SEAC Fall Seminar – Thursday, October 13th

from 7am to 12:30pm

Doubletree Westminster—8773 Yates Dr., Westminster, CO

The SEAC Education Committee would like to invite you to this year annual Fall Seminar with nationally known presenters on Structural Sustainability and the ASCE 7-22 Code updates. The seminar will be hosted in person for the local structural engineers in the Denver Metro area and surroundings, and as a webinar for the out of the area engineers.

PRESENTER: Megan Stringer, SE, LEED AP BD+C, Associate Principal at Holmes Structures in San Francisco, CO

This presentation will focus on Embodied carbon as it has become a major topic of conversation within the AEC industry. Low-carbon construction is entering our design conversations and building codes with structural engineers being looked at to reduce their project's embodied carbon. Additionally, through the SE 2050 commitment program, structural engineering firms are committing to reach net zero embodied carbon structures by 2050. With the push for lower embodied carbon structures, structural engineers play a vital role in getting to net zero. This presentation will explore advances the structural engineering profession is making toward net zero embodied carbon structures, discuss the top actions structural engineers can take to reduce the embodied carbon in their projects, discuss how structural engineers can make wiser design choices to reduce emissions, and talk about the SE 2050 commitment.



Megan Stringer is an Associate Principal with Holmes Structures. As the firm's in-house sustainability expert, Megan brings a keen eye for reducing a structure's embodied carbon and use of unnecessary materials. Megan is versed in working with large design teams by having led structural design for the largest mass timber project in North America amassing ~350,000 SF of Cross-Laminated Timber. Megan also serves as President of SEAONC and is the past chair of the SEI Sustainability Committee.

PRESENTER: Emily Guglielmo, SE, PE, F.SEI, Principal at Martin/Martin Consulting Engineers, Larkspur, CA

This presentation will focus on answering all of your wind design questions. The session will begin with a review of the most frequently asked wind related questions, as collected by the NCSEA Wind Engineering Committee. Topics include

- Analysis methods
- Wind loads on balcony handrails
- Drift limits and serviceability under wind loads
- Wind loads on rooftop screen walls
- Wind loads on temporary structures
- Effective wind area
- Canopies
- Corner zones

Following the FAQs, the session will include a look to the newly adopted ASCE 7-22 wind provisions. Highlights include:

- New wind provisions for MWFRS and C&C of elevated buildings
- New chapter of tornado provisions
- New long return period hazard maps
- New Prestandard for Performance Based Wind Design

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This seminar will conclude with an insider's perspective on the ASCE 7 code development process specific to wind loads, including the future of wind design.



Emily Guglielmo earned her bachelor's degree in Civil Engineering from UCLA, and her master's degree in Structural Engineering from UC Berkeley. She has nearly two decades of structural engineering experience, all with Martin/Martin, Inc. She began her career in their Denver, CO area office, and is currently a Principal with the firm, managing their San Francisco Bay Area office. She has lectured on wind load provisions nationally and internationally and is the Chair of the NCSEA Wind Engineering Committee and a voting member of the ASCE 7 Wind Loads Subcommittee. A licensed SE, Emily has received a number of awards, including an SEI Fellow and the Susan M. Frey NCSEA Educator Award, for effective instruction for practicing structural engineers.

SEAC Fall Seminar Sponsors needed!

The SEAC Education Committee is seeking sponsors for the 2022 SEAC Fall Seminar. If your company would be interested to participate, please contact us at Education@seacolorado.org for additional information and review the Sponsor Benefits on SEAC website.

Link: https://www.seacolorado.org/docs/2022_Advertising_Sponsorship_Opportunities.pdf

Current Sponsors include:

Gold



Silver



Bronze



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SEAC EC August Presentation and Tour



The SEAC Education Committee is planning the next Project Presentation and construction site tour of the Market Station Alloy Sunnyside project on Thursday, August 25th. The project is an eight-story, 258,000-square-foot mixed-use building in northwest Denver's Sunnyside neighborhood that will provide 209 apartment units within walking distance of RTD's new 41st and Fox Station. The event registration on SEAC website will open in July.

SEAC Project Presentations and Manufacturing Tours 2023 planning

The SEAC Education Committee is looking for companies interested in presenting their unique projects for Project Presentation or sharing their facilities for Manufacturing Tour events in 2023. If interested, please contact us at education@seacolorado.org

SEAC EC New Prospective Members

The SEAC Education Committee is looking for new excited and motivated members. This is a great time to join and learn more about the various educational events which we organize - including the SEAC Fall Seminar, Project Presentations, Job Site Tours and PE/SE Review Webinars and the Bridge Review session. Come join us! If you are interested in attending the next meeting, please RSVP at education@seacolorado.org



Northern Colorado Committee

On June 16, 2022, the SEAC Northern Colorado Committee hosted "The Great Nut and Bolt Event". LPR Construction, a national steel erector, located in Loveland, Colorado, allowed our group to utilize their training yard and equipment for our engineers to gain hands-on experience with several different methods of fastening structural bolts. Steve Babcock, senior engineer with Magnum Geo Solutions in Loveland, Colorado started our morning by presenting to the group about the different types of bolts that can be used in structural connections and how each of these types of bolted connections can be inspected. Following Steve's presentation, the group transitioned over to the hands-on portion of our program. LPR Construction's quality control personnel walked the engineers through the different installation procedures that would be used in installing the structural bolts. The three types bolting methods that were used to demonstrate how to properly achieve the required pre-tensioned force in the bolted connections were turn-of-the-nut, tension-controlled bolts, and direct tension indicators or DTIs. Drake Williams Steel and Platte Anchor Bolts sponsored our event and helped provide us with the means to rent a tent and chairs for our presentation as well as supply the structural bolts which we used in our demonstrations. A big thank you to all who were involved to make this event a huge success.



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COMMITTEE NEWS

Structural Engineers Association of Colorado

YOUNG MEMBER GROUP

Join the SEAC YMG on Thursday, July 21st at 2pm for the opportunity to tour the Zimkor steel fabrication shop.

This is an opportunity for developing engineers to learn more about what takes place between when Construction Documents are issued and when steel hits the job site. It is also an opportunity to discuss the implication of technology upgrades on the fabrication process (What is easier to do now on modern machinery and how does that impact design decisions on beam sizes, connection details, etc.? Are there any new pain-points that engineers should know about and try to mitigate when we are detailing a project?).

Happy hour at Grist Lounge following the plant tour (Grist Lounge - 8155 Piney River Ave, Littleton, CO 80125)

Please note that this is being hosted by the Young Member Group and will thus be geared towards young engineers. We welcome engineers of all ages to join us for this event.

Register by end of day on Tuesday, July 19th.

Denver hires new Deputy Building Official

Join us in welcoming Dennis Shults, Denver's new Deputy Building Official and Inspections Manager!

Dennis comes to Denver from the Town of Breckenridge, where he served as the Chief Building Inspector. There, he reviewed plans for and inspected both residential and commercial construction projects.

Dennis has extensive experience in the construction industry, having been licensed in the Kansas City metro area as a Master Electrician and General Contractor for over 20 years. Although he is originally from the Midwest, Colorado captured his heart when he attended the Colorado School of Mines, where he earned his Mechanical Engineering Degree.

Dennis brings experience and a proven track record of success in the inspections area, which will be invaluable in helping us meet our citizen's needs. When not discovering great cuisine, he enjoys outdoor activities including hiking, biking, ATVing, and skiing.

As Deputy Building Official, Dennis will manage the building inspections teams and lead the investigation of building code and ordinance violations, making decisions and recommendations on complex code enforcement cases.



AUGUST 25, 2022

*Join your colleagues for a
day of golf and fun!*

RACCOON CREEK GOLF COURSE

August 25, 2022 7:30AM Shotgun Start
Raccoon Creek Golf Course
7301 W Bowles Ave, Littleton, CO 80123



ADSC/ASCE/ CAGE/SEAC

GOLF TOURNAMENT



INFORMATION

REGISTRATION

\$170 per golfer (includes lunch)
\$650 per Foursome

SPONSORSHIPS

\$350 Hole Sponsorship and Staff the Tee Box/Driving Range
\$250 Hole Sponsorships
\$250 Mens/Womens Longest Drive Sponsorship
\$250 Mens/Womens Closest to the Pin Sponsorship
\$250 Mens/Womens Longest Putt Sponsorship
\$500 Beverage Cart Sponsorship
\$500 Lunch Sponsorship
\$500 Breakfast Burrito Sponsorship
\$500 Awards Sponsorship
\$750 Cocktail/Social Sponsorship

Sign up at www.cagecolorado.org (click on Calendar of Events)



THE EVENT

ADSC Rocky Mountain, ASCE Denver Branch, CAGE and SEAC join together for an annual golf tournament. This is a great event with lunch provided. Come enjoy the day, win some prizes and show us your golf skills.

*Members and nonmembers
of the sponsoring
organizations are invited
to attend and/or sponsor.*

JOB OPENINGS

Structural Engineers Association of Colorado



ACCEPTING CANDIDATES WHO PREFER REMOTE WORK ATMOSPHERES

BALANCED WORK WEEKS

SIGNING BONUSES

PROFIT SHARING

FUN TEAM CULTURE

FLEXIBLE SCHEDULES

**STRUCTURAL
BIM MODELER IN
BOULDER, STEAMBOAT
SPRINGS & GOLDEN, CO**

Seeking a full-time experienced BIM Production BIM/ Revit Modeler to join our team. The ideal candidate shall have experience working with structural projects for at least the past 3-4 years.

BIM Modeler Salary Range
\$58k - \$65k

SEE OUR WEBSITE FOR MORE DETAILS

**STRUCTURAL
DESIGN ENGINEER IN
BOULDER, STEAMBOAT
SPRINGS & GOLDEN, CO**

The successful candidate must have 3-5 years of experience, have a B.S. or M.S. degree in Structural, Civil and or Architectural Engineering. Be passionate about the art of engineering and self motivated.

DE Salary Range
\$60k - \$75k

SEE OUR WEBSITE FOR MORE DETAILS

**PROJECT STRUCTURAL
ENGINEER IN
BOULDER, STEAMBOAT
SPRINGS & GOLDEN, CO**

Seeking an experienced professionally licensed structural Project Engineer to join our team with 4-8 years of professional experience. Passionate about the art of engineering and self-motivated.

PE Salary Range
\$70k - \$90k

SEE OUR WEBSITE FOR MORE DETAILS

BOULDER | GOLDEN | STEAMBOAT SPRINGS

Please send cover letter, resume with specific project experience, and a reference list to: mail@anthemstructural.com
anthemstructural.com

SEAC COMMITTEES

Structural Engineers Association of Colorado

Have you considered joining a committee?

Your participation is what makes our organization so successful.

Committee	Chairperson	Contact Phone	Board Liaison
BIM	Alejandra Contreras Moreno	(303) 945-0729	Brian Lobmeyer
Building Dept. Liaison			Scott Hargrove
Business Management	Tom Soell	(303) 444-1951	Lacey Goetz
Construction Industry	Jeremy Crandall	(303) 458-1736	Jeff Borger
Denver Building Dept.			Scott Hargrove
Education	Irena Kahanek Mere Hall	(720) 296-7595 (470) 398-6553	Sara Mickus
Ethics	Keith Porter	(626) 233-9758	Lacey Goetz
Existing Structures	Evan Hammel	(303) 860-9021	Brian Lobmeyer
Membership	Matthew Hood Jeannette Torrents	(303) 318-6539	Jeff Borger
Nominating			Scott Hargrove
Northern Colorado	Greg Black	(970) 685-4152	Scott Hargrove
Southern Colorado			Holly Janowicz
Western Slope	Sara Mickus	(970) 618-7708	Sara Mickus
Precast Concrete	Trevor Kirkley	(303) 298-1900	Kim Olson
SEER	Mike Piper	(303) 431-6100	Lacey Goetz
SE3	Alex Lakocy	(720) 544-5453	Lacey Goetz
Scholarship	Jeannette Torrents	(303) 444-1951	Kim Olson
Seismic Standards	Rob Jackson	(303) 843-2850	Holly Janowicz
Snow Loads	Jeannette Torrents	(303) 444-1951	Brian Lobmeyer
Standard of Practice	Jim Ness	(303) 623-4927	Lacey Goetz
Steel Materials	Sylvia Iverson	(303) 757-6323	Kim Olson
Wind Loads	Dale Statler	(970) 568-2919	Jeff Borger
Wood	Jeremy Crandall	(303) 458-1736	Sara Mickus
Young Members	Katie Courtright	303.399.5154	Holly Janowicz

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We Want to Hear from YOU! The SEAC Board of Directors is interested in hearing your suggestions, comments, and ideas. Please feel free to contact a member of the BOD at any time.

Thank you to all of our members who continue to support SEAC!