



**JANUARY 2025**

**STRUCTURAL ENGINEERS ASSOCIATION OF COLORADO**

# NEWSLETTER



## PRESIDENT'S MESSAGE

Welcome all to 2025. I am honored to serve as the incoming SEAC President for the upcoming year, and I am looking forward to working with my fellow Board members to benefit SEAC and its members.



## IN THIS EDITION

**PRESIDENT'S MESSAGE**

**2025 SEAC BOARD OF DIRECTORS**

**JANUARY GENERAL MEETING**

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**JANUARY NOCO MEETING**

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First and foremost, I want to thank Scott Hargrove for his dedication to SEAC in 2024 as President. His hard work led SEAC to a year of growth, including multiple new offerings like the summer social and the project awards. We plan to continue these events in 2025, so look out for more details in the coming months.

Next, I want to share my appreciation of Holly Janowicz and Sara Mickus, who have both completed their terms on the SEAC Board of Directors. These amazing women have made a huge impact on SEAC, and I am grateful for my time with them on the Board. Luckily for us, Holly and Sara have agreed to remain contributing through the new Fall Seminar Committee and the Western Slope Committee, respectively, so they will continue to be an integral part of SEAC.



I also want to welcome our new Secretary, Jim Foreman, and the new Director, Peter Marxhausen to the Board. The other Board members and I are excited to have you both joining the Board and look forward to working with you over the next few years. Thank you to the Nominating Committee for finding four great candidates for these positions.

Throughout 2025, I want to use these President's Message to help encourage the continued growth and engagement of SEAC. For January, I want to extend a challenge to all our members – Volunteer for a Committee. Committees are the lifeblood of our organization, and their successes depend on having a robust group of volunteers. Your time on committees will benefit the organizations, but it will also benefit you and your professional path. I encourage everyone to read [The Value of Participation](#) by our very own Jeannette Torrents, which details why “heavily involved people invariably say that they’ve received much more from their organization than they’ve put into it.”

Check out the list of committees included in this newsletter, and once you find one (or two) that you would like to check out, reach out to the committee chair(s) or our fantastic Executive Director, Dawn Miller at [administrator@seacolorado.org](mailto:administrator@seacolorado.org), to get added to the committee meeting list. You can always attend a couple of meetings before formally committing.

I look forward to seeing many of you at the first general meeting of 2025 on January 16th.

Jordan Jarrett, Ph.D., P.E.



# 2025 BOARD OF DIRECTORS

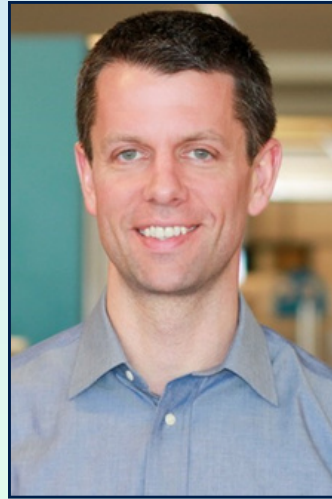
## *Meet your newly elected 2025 SEAC Board of Directors*

**PRESIDENT**

**VICE PRESIDENT**

**SECRETARY**

**DIRECTOR**



**Jordan Jarrett**  
Colorado State  
University

**Max Lehman**  
Wallace Design  
Collective

**Jim Foreman**  
Martin/Martin Inc.

**Peter Marxhausen**  
UBSE, Inc.

*The following will remain on the Board of Directors*

**PAST PRESIDENT**

**DIRECTOR**

**DIRECTOR**



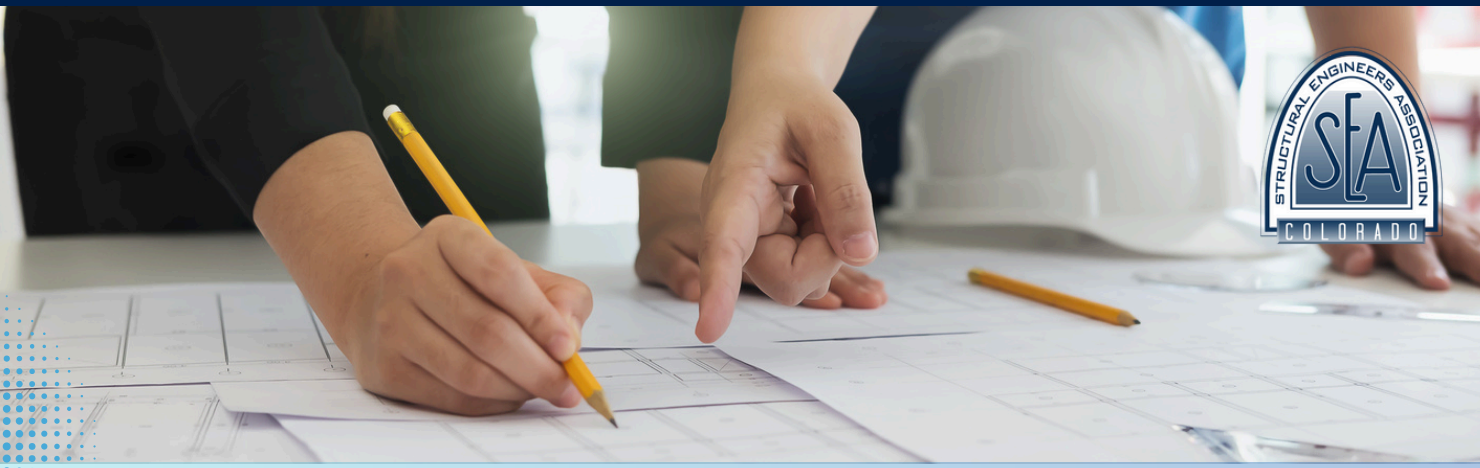
**Scott Hargrove**  
Knott Laboratory

**McKenzie Glass**  
City of Denver

**Evan Hammel**  
J.R. Harris & Company



# JANUARY MEETING



## Lesser Known and Considered Aspects of Earth Retention

Presented By: Don Carroll - Wiss, Janney, Elstner Associates

**16** THURSDAY  
JANUARY  
2025  
7:30 AM - 9:00 AM

PPA Event Center  
2105 Decatur St.  
Denver, CO 80211

JOINT  
MEETING  
WITH



### ABOUT THE TOPIC

Active, Passive and At-Rest earth pressures are familiar to anyone who has taken a foundation design course or designed an earth retaining structure. But what else is there? Soil arching, Bin Pressures and Apparent Pressures are all also used throughout the industry in certain applications and when properly applied result in more efficient designs. The presentation will discuss these other loading methods, their history and when they apply. The 1:1 line is a long-standing rule of thumb used to determine when one should consider a surcharge loading and how it impacts an earth retaining element. Like all rules of thumb, it has a basis in success, but also its limitations. Conditions to be aware of using this method will be discussed and some case studies reviewed related to surcharges. Finally, the design of retaining wall veneers are often not treated with the same level of care as used in the design of the retaining wall itself. Multiple veneer failures and their causes will be discussed as well as the repairs used.

**The deadline to register is January 7, 2025.**

### ABOUT THE SPEAKER



Don Carroll is an Associate Principal and Geotechnical Unit Manager in Wiss, Janney, Elstner Associate's Denver office. He has more than 25 years of consulting engineering experience including forensic engineering, structural design & evaluations, strengthening & repair of distressed structures and foundations, as well as temporary and permanent earth retention structures with heights exceeding 45 feet. Mr. Carroll served on the SEAC Board of Directors from 2013 through 2016, serving as President in 2015. Prior to joining WJE in 2016, Mr. Carroll was a principal at J.R. Harris and Company, a structural engineering firm in Denver.

### SCHEDULE

7:30 a.m. - 8:00 a.m. Breakfast/Networking  
8:00 a.m. - 9:00 a.m. Presentation

[\*\*CLICK HERE TO REGISTER NOW\*\*](#)

SEAC Members: \$0

Non-Members In-Person: \$50

Non-Members Virtual: \$30

Registration fee includes breakfast (In-Person only), presentation, and a certificate for 1.0 Professional Development Hour.



# WIND STUDY SPONSORSHIPS



## Wind Committee

fundraising

*We received great news regarding the Colorado Special Wind Region Project. Our application for the FEMA BRIC grant has been APPROVED, which will cover 75% of the project costs.*

*SEAC needs to cover the remaining 25% of the project costs, and to date, we have received commitments for ~80% of those funds. Huge thank you to our SEAC community members that have already donated!*

*We will continue fundraising in 2025 for the remainder of our goal, so there is still time to be involved in this crucial study! Any sponsors at Bronze Level or higher will receive recognition for their contribution online through SEAC. Any funds raised beyond the minimum required will help fund additional studies.*

*If you or your organization would like to learn more and/or contribute to this effort, please [CLICK HERE](#) to pick your sponsorship level.*





# NOCO JANUARY MEETING



# NOCO



## LESSER KNOWN AND CONSIDERED ASPECTS OF EARTH RETENTION

Presented By: Don Carroll - Wiss, Janney, Elstner Associates

**January 16, 2025**

**7:30 AM - 9:00 AM**

**1.0 PDH**

**Front Range Community College | 4616 Shields Street - Room #552  
Student Success Center - Mount Antero Building - Fort Collins, CO 80526**

**REGISTRATION FEES**

**NOCO Members: \$0**

**Non-Members: \$20**

Registration fee includes in-person presentation virtually broadcast from Denver and a certificate for 1.0 Professional Development Hour.

### ABOUT THE TOPIC

Active, Passive and At-Rest earth pressures are familiar to anyone who has taken a foundation design course or designed an earth retaining structure. But what else is there? Soil arching, Bin Pressures and Apparent Pressures are all also used throughout the industry in certain applications and when properly applied result in more efficient designs. The presentation will discuss these other loading methods, their history and when they apply.

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### SCHEDULE

7:30 a.m. - 8:00 a.m.

Check-In/Networking

8:00 a.m. - 9:00 a.m.

Presentation

**REGISTRATION DEADLINE: JANUARY 10, 2025**

**[CLICK HERE TO REGISTER NOW](#)**



# 2024 GINGERBREAD BRIDGE COMPETITION



32 teams competed this year. 3 home school teams, 12 middle/high school teams, 14 college teams, and 3 professional teams battled to win the 2024 Gingerbread Bridge Competition.

## Architectural Design Results

"Gingineers"



Colorado School of Mines

"Ginger Strong"



University Colorado - Boulder

"Pastry Patriots"



Golden View Classical Academy

## People's Choice Results

**First:** Wallace Kart 2024  
Wallace Design Collective

**Second:** Bridge to Paradise  
6-UP

**Third:** Sour Patch Kids Crusade  
Golden View Classical Academy

## Structural Design Results

**First:** Bridges and Beasts | Applewood Academy Homeschool  
Total Load = 586 lbs    Strength-to-Weight Ratio = 24.9

**Second:** Pastry Patriots | Golden View Classical Academy  
Total Load = 171 lbs    Strength-to-Weight Ratio = 21.3

**Third:** Bridge to Paradise | 6-UP  
Total Load = 738 lbs    Strength-to-Weight Ratio = 19.4

**Strongest Bridge:** Frankenbridge | Wiss, Janney, Elstner Associates  
Total Load = 1066 lbs    Strength-to-Weight Ratio = 50.3

The event results and links to the Gingerbread Bridge Competition Facebook page can also be found at [GINGERBREADBRIDGE.COM](https://www.facebook.com/gingerbreadbridge.com)

Thank you again to our corporate sponsors, we could not do this event without you! Some of the sponsored money will be put towards a scholarship to send one member of the SEAC YMG to the 2025 NCSEA Summit which will be held in New York City, New York. Applications for the SEAC YMG Scholarship will be available later in the year.



# Thank You Sponsors!

## Platinum Sponsors



## Gold Sponsors



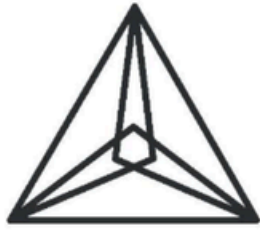
## Silver Sponsors







# EMPLOYMENT AD



**CRONIN**  
ENGINEERING  
& INSPECTION

## We're Hiring!

We're looking for a skilled and motivated **structural engineer** to join our small, fast-growing company. Work will range from residential renovations to small commercial projects. We're located in the Denver metro area with work being completed in the office, remotely, and in the field.



### Benefits:

- \$70k-\$100k annual salary depending on experience
- Company computer, phone, tools
- Health insurance
- Paid time off
- Professional development assistance
- Retirement plan & matching
- Bonus opportunities

Email [info@cronin.engineer](mailto:info@cronin.engineer)  
for more info and to apply!





# 2025 SEAC CALENDAR OF EVENTS

## SEAC E-NEWS DEADLINES

February Issue - January 27, 2025

April Issue - March 24, 2025

June Issue - May 26, 2025

August Issue - July 28, 2025

October Issue - September 22, 2025

December Issue - November 24, 2025

## SEAC NEWSLETTER DEADLINES

March Issue - February 24, 2025

May Issue - April 21, 2025

July Issue - June 23, 2025

September Issue - August 25, 2025

November Issue - October 27, 2025

## BUILDING DEPARTMENT COMMITTEE | 3:30 PM

Friday February 21, 2025 | S. A. Miro

Friday April 18, 2025 | S. A. Miro

Friday June 20, 2025 | S. A. Miro

Friday August 15, 2025 | S. A. Miro

Friday October 17, 2025 | S. A. Miro

Friday December 19, 2025 | S. A. Miro

## GENERAL/ANNUAL MEETINGS | 7:30 AM

Thursday January 16, 2025 | PPA Event Center

Thursday March 20, 2025 | PPA Event Center

Thursday May 16, 2024 | PPA Event Center

Thursday July 17, 2025 | PPA Event Center

Thursday September 18, 2025 | PPA Event Center

Fall Conference TBD

Annual Meeting November TBD

## BOD MEETINGS | 8:30 AM

Thursday January 9, 2025 | Virtual

Thursday February 6, 2025 | Martin/Martin

Thursday March 6, 2025 | Virtual

Thursday March 27, 2025 | Martin/Martin

Thursday May 1, 2025 | Virtual

Thursday June 5, 2025 | Martin/Martin

Thursday July 10, 2025 | Virtual

Thursday August 7, 2025 | Martin/Martin

Thursday September 4, 2025 | Virtual

Thursday October 2, 2025 | Martin/Martin

Thursday October 30, 2025 | Virtual

**BUSINESS MANAGEMENT COMMITTEE | 7:30 AM**

Thursday February 13, 2025 | Martin/Martin

Thursday April 10, 2025 | Martin/Martin

Thursday June 12, 2025 | Martin/Martin

Thursday August 14, 2025 | Martin/Martin

Thursday October 9, 2025 | Martin/Martin

**SEISMIC COMMITTEE | 8:00 AM**

Tuesday February 4, 2025 | Virtual

Tuesday April 1, 2025 | Virtual

Tuesday June 3, 2025 | Virtual

Tuesday August 5, 2025 | Virtual

Tuesday October 7, 2025 | Virtual

Tuesday December 2, 2025 | Virtual

**EXISTING STRUCTURES COMMITTEE | 8:00 AM**

Tuesday February 11, 2025 | J.R. Harris

Tuesday April 8, 2025 | J.R. Harris

Tuesday June 10, 2025 | J.R. Harris

Tuesday August 12, 2025 | J.R. Harris

Tuesday October 14, 2025 | J.R. Harris

Tuesday December 9, 2025 | J.R. Harris

**WOOD COMMITTEE | 12:00 PM**

Thursday February 20, 2025 | Lam-Wood

Thursday April 17, 2025 | Lam-Wood

**EDUCATION COMMITTEE | 8:00 AM**

Friday January 10, 2025 | Virtual

Friday February 14, 2025 | Virtual

Friday March 14, 2025 | Virtual

Friday April 11, 2025 | Virtual

Friday May 9, 2025 | Virtual

Friday June 13, 2025 | Virtual

Friday July 11, 2025 | Virtual

Friday August 8, 2025 | Virtual

**STEEL COMMITTEE | 7:30 AM**

Wednesday February 19, 2025 | Martin/Martin

Wednesday March 19, 2025 | Martin/Martin

Wednesday April 16, 2025 | Martin/Martin

Wednesday May 21, 2025 | Martin/Martin

Wednesday June 18, 2025 | Martin/Martin

Wednesday July 16, 2025 | Martin/Martin

Wednesday August 20, 2025 | Martin/Martin

Wednesday September 17, 2025 | Martin/Martin

Wednesday October 15, 2025 | Martin/Martin

Wednesday November 19, 2025 | Martin/Martin

Wednesday December 17, 2025 | Martin/Martin

**WOOD COMMITTEE | 12:00 PM**

Thursday June 19, 2025 | Lam-Wood

Thursday August 21, 2025 | Lam-Wood

Thursday October 16, 2025 | Lam-Wood

**SE3 COMMITTEE | 2:00 PM**

Thursday January 23, 2025

Thursday February 27, 2025

Thursday March 27, 2025

Thursday April 24, 2025

Thursday May 22, 2025

Thursday June 26, 2025

**NOCO COMMITTEE | 7:30 - 9:00 AM**

Thursday January 16, 2025 | FRCC

Thursday February 20, 2025 | FRCC

Thursday March 20, 2025 | FRCC

Thursday April 17, 2025 | FRCC

Thursday May 15, 2025 | FRCC

Thursday June 19, 2025 | FRCC

Thursday July 17, 2025 | FRCC

Thursday August 21, 2025 | FRCC

Thursday September 18, 2025 | FRCC

Thursday October 16, 2025 | FRCC

Thursday November 20, 2025 | FRCC

**SUSTAINABLE DESIGN COMMITTEE | 1:15 PM**

Tuesday January 28, 2025 | Virtual

Tuesday March 11, 2025 | Virtual

Tuesday April 22, 2025 | Virtual

Tuesday June 3, 2025 | Virtual

Tuesday August 26, 2025 | Virtual

Tuesday October 7, 2025 | Virtual

Tuesday November 18, 2025 | Virtual

**YMG COMMITTEE | 7:30 AM**

Monday January 6, 2025 | Virtual

Monday February 3, 2025 | Virtual

Monday March 3, 2025 | Virtual

Monday April 7, 2025 | Virtual

Monday May 5, 2025 | Virtual

Monday June 2, 2025 | Virtual

Monday July 7, 2025 | Virtual

Monday August 4, 2025 | Virtual

Monday September 1, 2025 | Virtual

Monday October 6, 2025 | Virtual

Monday November 3, 2025 | Virtual

Monday December 1, 2025 | Virtual



# SEAC COMMITTEES

*Click on a committee name to visit that committee's homepage on SEAC.*

Committee	Chairperson	Contact Phone	Board Liaison
<b>Building Department</b>	Chad Mitchell	720-407-1031	Max Lehman
<b>Business Management</b>	Lacey Goetz	303-804-7003	Max Lehman
<b>Education</b>	Mere Hall Philip Taylor	470-398-6553 303-565-4882	Jim Foreman
<b>Existing Structures</b>	Ben Cook Donald Harvey	303-860-9021 303-444-3620	Evan Hammel
<b>Fall Seminar Planning</b>	Holly Janowicz Scott Hargrove	303-860-9021 303-925-1900	Scott Hargrove
<b>Nominating</b>	Ben Nelson	303-431-6100	Scott Hargrove
<b>Northern Colorado</b>	Greg Black	970-213-1824	Scott Hargrove
<b>Scholarship Fund</b>	Ben Nelson	303-431-6100	Evan Hammel
<b>SE3</b>	Meg Riley	303-461-6100	Jordan Jarrett
<b>Seismic</b>	Rob Jackson	303-870-9334	Jordan Jarrett
<b>SEER</b>	Mere Hall	470-398-6553	McKenzie Glass
<b>Steel</b>	Sylvia Iverson Jim Foreman	720-672-3520 303-431-6100	Jim Foreman
<b>Outreach</b>	Brian Lobmeyer	303-783-4797	McKenzie Glass
<b>Sustainable Design</b>	McKenzie Glass Michael Lyons	307-202-1677 303-431-6100	McKenzie Glass
<b>Western Slope</b>	Sara Mickus	970-618-7708	Scott Hargrove
<b>Wind &amp; Snow</b>	Dale Statler Jeannette Torrents	303-914-4300	Jordan Jarrett
<b>Wood</b>	Jeremy Crandall	303-458-1736	Max Lehman
<b>Young Members</b>	Kamryn Froehle	720-955-1399	Peter Marxhausen

# Ad Hoc Committees

Committee	Chairperson	Contact Phone	Board Liaison
BIM Committee	Open		Max Lehman
Ethics	Peter Marxhausen	720-618-6473	Peter Marxhausen
Licensure and Continuing Education	Brian Lobmeyer Chad Mitchell	303-783-4797 303-741-3737	Max Lehman
Membership	Matthew Hood Lacey Goetz	303-318-6539 303-804-7003	Evan Hammel
Structural Engineering Practice	Ben Cook	303-909-7438	Max Lehman

## 2025 SPONSORSHIP OPPORTUNITIES



[CLICK HERE](#) to View  
[SEAC Sponsorship Opportunities and Benefits](#)



# NEWSLETTER ADS

## YOUR ADVERTISEMENT HERE

*Do you want to promote your company and build name recognition with structural engineers in Colorado?*

*Do you have an engineering job opening at your firm and are looking for a qualified candidate?*

### **Consider advertising with SEAC.**

SEAC publications reach over 300 members monthly, including professional engineers, suppliers, and vendors.

Employment ads are posted on the SEAC webpage for two months.

Both ad types will be included in one bi-monthly SEAC Newsletter and one bi-monthly SEAC E-News Blast (two months posting).

Contact Dawn Miller at [administrator@seacolorado.org](mailto:administrator@seacolorado.org)

### **EMPLOYMENT ADS**

**Full Page Employment Ad** Members: \$250 Non Members: \$300

**1/2 Page Employment Ad** Members: \$150 Non Members: \$180

**1/4 Page Employment Ad** Members: \$100 Non Members: \$120

### **PROMOTIONAL AD**

Full Page Promotional Ad: \$350

Half Page Promotional Ad: \$250

Quarter Page Promotional Ad: \$200