



STRUCTURAL ENGINEERS OF COLORADO

NEWSLETTER

2018 SUMMER SCHEDULE
SIGN UP FOR THESE EVENTS AT
[HTTPS://SEACOLORADO.ORG/](https://seacolorado.org/)

Blue Moon RiNo Brewery Project Presentation & Tour

May 2, 2018
Blue Moon Brewery
3750 Chestnut Pl.
Denver, CO 80216
5:45pm-7:30pm

SEAC May General Meeting

May 17, 2018
Renaissance Hotel
3801 Quebec Street
Denver, CO 80207
7:30am-9am

**Out-of-area may
participate via WebEx**

Business Management Meeting

June 14, 2018
Martin/Martin
12499 W Colfax Avenue
Lakewood, CO 80215
7:30am-9am

Northern Colorado Meeting

June 21, 2018
CTL Thompson
400 North Link Lane
Fort Collins, CO 80524
7:30am-9am

NCSEA YMGSC Trivia Night– Boulder & Denver locations

July 18, 2018 5:30pm-8pm

Boulder:

JVA, Inc.
1319 Spruce Street
Boulder, CO 80302

Denver:

Anchor Engineering
2535 17th Street
Denver, CO 80211

SEAC July General Meeting

July 19, 2018
Lakewood Country Club
6800 W 10th Avenue
Lakewood, CO 80214
7:30am-9am

**Out-of-area may participate
via WebEx**

SEAC May General Meeting

Grouting Practice in the Precast Concrete Building Industry & the PCI Erector Certification Program

The first part of the lecture will be presented by John Dobbs and Dan Mullins and will outline recommended practice for addressing structural grouting in precast building systems. It will cover current practice, suggested language for contract drawings and specifications, field quality assurance and quality control, procedures and verification. The second part of the lecture will be presented by Gary Wildung and Carl Harris. It will cover PCI certification of precast erectors and the value it provides to manufacturers, engineers, architects and owners.



John E. Dobbs, P.E., S.E. is Executive Director of the Precast/Prestressed Concrete Institute (PCI) Mountain States Region. He represents nine PCI Producer Member Companies operating 14 PCI Certified Plants in the states of Colorado, Idaho, Montana and Utah.



Dan Mullins PE, SE is an associate with Martin/Martin, Inc. and is the Technical Director for the Structural Department. Dan currently serves on ACI Committee 318, Building Code Requirements for Structural Concrete, Sub-Committee B Anchorage and Reinforcement.



Carl L. Harris is the co-founder of Carl Harris Co., Inc. a specialty contracting firm primarily engaged in the erection of structural steel and precast concrete. He is currently the chairman of the PCI Erectors Committee and the Erectors Certification Committee. Thru PCI committees, he has coordinated the update of PCI's Safety Manual for Precast Erection and The Erectors' Manual. He is a PCI Certified Field Auditor and is PCI's Lead Certified Company Auditor.



Gary Wildung is a founding member of FDG Inc. a consulting engineering company specializing in precast design and detailing. He was the recipient of the PCI Fellow Award in 2011. He is the Quality Activities Council Chair and an active member of several committees including: Erectors Certification Committee, PCI Field Safety Task Group, Personnel Training and Certification Committee.

To attend in Denver, go to <https://seacolorado.org/event/seac-may-general-meeting/>

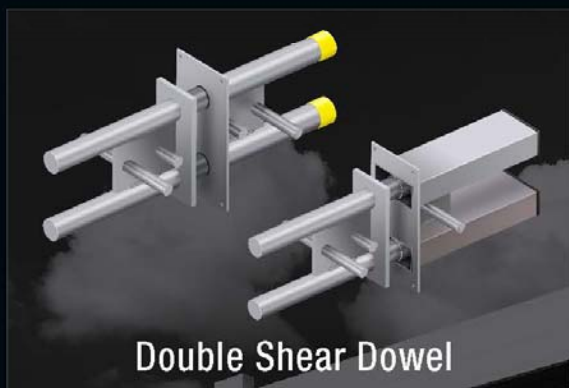
To attend in Fort Collins, go to <https://seacolorado.org/event/seac-northern-colorado-may-meeting/>

To attend via WebEx (out-of-area members only), contact administrator@seacolorado.org.

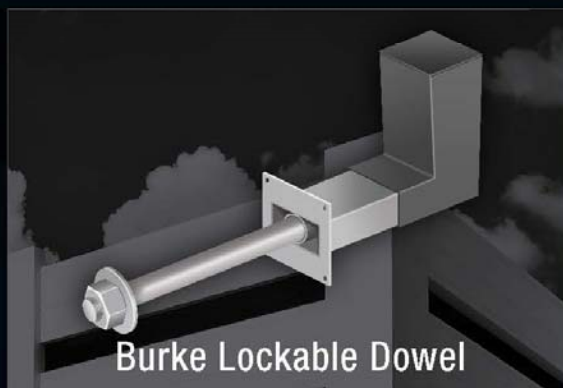
May Meeting Sponsor



Meadow Burke is the industry leading manufacturer and supplier of structural connections and accessories to the Concrete Construction Industry for safe, rapid and cost effective solutions. Our Engineering support helps you to deliver your projects on time and on budget.



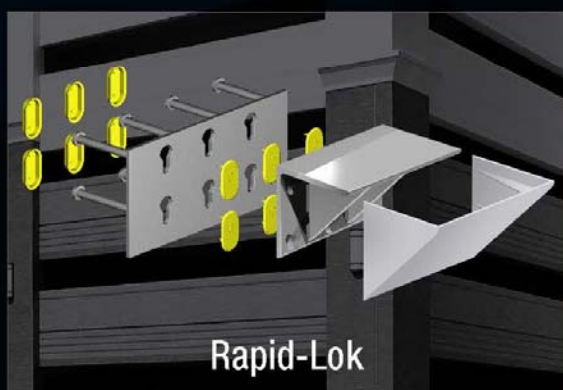
Double Shear Dowel



Burke Lockable Dowel



Erector Connector



Rapid-Lok



Seismic Chord Connector



Super Lynk

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May Project Presentation

Structural Engineers Association of Colorado

**LAST CHANCE
TO RSVP**



**LAST CHANCE
TO RSVP**

The SEAC Education Committee would like to invite you to the next SEAC Project Presentation at the Blue Moon Brewery in the RiNo district. The structural engineer and architects of the brewery facility will present the design innovations and challenges faced throughout the project. The presentation will be followed by a tour of the facility, networking and beer tasting.

This event is open to SEAC members, non-members and students 21 years & older (ID required). Space is limited, please register early.

PRESENTERS: Kevin Fitzpatrick, PE with Wallace Engineering;
Adam Harding, AIA and Avik Guha, AIA with Roth Sheppard Architects

WHEN: Wednesday, May 2nd from 5:45pm to 7:30pm

WHERE: Blue Moon Brewery, 3750 Chestnut Pl., Denver, CO

RSVP by Tuesday, May 1, 2018 on the SEAC website <http://seacolorado.org/events/>

COST: SEAC Members: Free; SEAC Non-members: \$15

ADDITIONAL INFO:

- Free parking on site
- The presentation will be webcasted to remote engineers at the Western Slopes and Northern Colorado regions
- 1.5PDH certificate will be provided after the event; please request at registration



Photo Courtesy of Roth Sheppard Architects

PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

I recently attended the 2018 Structures Congress where I sat in on a roundtable hosted by the Council of American Structural Engineers (CASE) that focused on today's business practice challenges. One of the recurring themes was how to attract and retain talent.

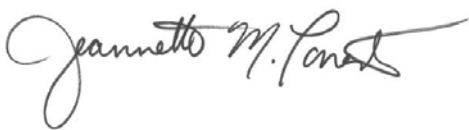
One way to attract entry-level talent is to increase visibility at the university level. SEAC and ASCE have several platforms for interaction with Colorado's seven ABET-accredited civil engineering degree programs. You can connect with students at several campuses by:

- ◆ Sponsoring a student for SEAC Membership
- ◆ Volunteering to speak at Colorado State University's SEAC Student Chapter (contact [Greg Black](#))
- ◆ Contributing to the SEAC Scholarship Fund
- ◆ Supporting the Colorado School of Mines' Concrete Canoe Team
- ◆ Helping the University of Colorado Boulder ASCE Student Chapter host the 2019 Rocky Mountain Regional ASCE Student Conference (contact [Anika Pietenpol](#))

The Structural Engineering, Engagement, and Equity (SE3) Project addresses the retention of practicing structural engineers. Please take a moment to participate in the 2018 SE3 Survey. This comprehensive nation-wide survey focuses on advancement, compensation, and work-life balance metrics in order to identify best practices for employee engagement, retention, and equity. This is a nation-wide survey that helps us to distinguish structural engineering trends from those of civil engineers in general. In 2016, Colorado was tied for the second highest number of participants after California. Let's increase our participation this year so that we can have statistically relevant data for our state as well as the nation as a whole. One of the co-chairs of the SE3 Project will be presenting the full results of the 2016 Survey at our July meeting along with preliminary information from the 2018 Survey.

In addition to the SE3 Survey, I strongly encourage you to participate in the SEAC Business Management Committee's first ever compensation/benefits survey for members to share information with each other on salary, insurance benefits, company support for continuing education, etc. While some results from the survey will be presented at a future SEAC meeting, you must participate in the survey in order to receive the full results. While a few general metrics are repeated from the SE3 Survey, the SEAC Business Management Committee survey takes a much more detailed look at specific benefits. Both surveys have the potential to contribute important insight to the state of our profession in Colorado, but will only be successful with broad participation.

SEAC also offers a lot of great opportunities for in-person participation in our organization. Mark your calendars and make sure to RSVP ahead of time to guarantee yourself a spot at our upcoming events.



Jeannette Torrents
SEAC President

Proposed Amended Bylaws

Structural Engineers Association of Colorado

SEAC's bylaws were last amended in 1992. Paul Doak, Ben Nelson, Susie Jorgensen, Bob Hunnes, and Jerry Maly took a look at what needed to be updated to reflect the nature of our organization in 2018, and with the review of the Board, have proposed an amended set of Bylaws.

Some of the proposed amendments include:

- ◆ Adding a membership category for retired professional members
- ◆ Expanding student membership to include high school students
- ◆ Allowing retired professional members to vote
- ◆ Eliminating the requirement for 3 professional member references for admission to membership
- ◆ Modifying officer responsibilities to reflect current roles
- ◆ Changing quorum requirements from 10 voting members to 20% of voting members
- ◆ Acknowledging the role of the NCSEA delegate

The proposed amended bylaws can be read in detail [here](#) or accessed through the Bylaws page on the SEAC website.

We will be opening the floor to questions and comments regarding these proposed changes at the May General Meeting. Following the meeting, a letter ballot will be e-mailed to all voting members. We need at least 2/3 of the ballots that we send out returned in order for this initiative to move forward, and at least 2/3 of those returned to vote in favor, so please take the time to vote.

ANNOUNCEMENTS

Structural Engineers Association of Colorado

Attention Current Members

Are YOU an Affiliate Member of SEAC who has Recently become Licensed
as a PE in Colorado?

VOTE!

- If the answers to the above questions above are YES, please read on.
- There are two primary differences between Affiliate membership and Professional membership in SEAC.
- According to the Bylaws, only professional engineers registered by the State of Colorado who are actively practicing, teaching, or conducting research in the field of structural engineering may be Professional members.
- Also according to the Bylaws, Professional members are permitted to vote in the association, whereas Affiliate members are not.
- Many young members of SEAC join the association as Student members when they are enrolled full time at a college or university pursuing an engineering degree, or as Affiliate members after graduation when they have passed the Engineer in Training exam, are working for engineering firms, but have not yet taken the PE exam and been licensed as a PE by the State of Colorado.
- The SEAC Bylaws require that any member who wishes to change her/his membership category make a request in writing to the Board of Directors.
- One way this can be done is to fill out the [membership application form](#) found on the website, circle the Professional Member category, indicate that you are requesting a change in your membership category from Affiliate or Student, and submit the application along with a copy of your résumé.
- e.

2018 Meeting Topics

Martin & Martin 7:30am-9:00am

June 14, 2018

Mentoring and Professional Development in Today's Consulting Firms
Presentation/Discussion led by Paul Doak and Tom Soell

August 9, 2018

Review of 2018 Business Practices Surveys A & B

October 11, 2018

Ownership Transition

Participation in the Business Management Committee is open to all SEAC members who have paid the additional \$50 dues for the committee.

To add the Business Management Committee to your SEAC membership:

Visit <https://seacolorado.org/purchase-a-membership/>

Enter the password: **SEACMembership_31**

Select Business Practice Member & Sign Up Now

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SEAC Compensation/Benefits Survey

Structural Engineers Association of Colorado

To SEAC Members,

The first ANNUAL 2018 SEAC Compensation/Benefits Survey will be available for completion in May.

The survey covers a number of topics, including gender, company size, ANNUAL salaries by grade, benefits provided, insurance, and miscellaneous benefits among others. The results of the survey will only be made available to those engineers that participate. The processing of the data will be by an independent third party so as to maintain the confidentiality of the information provided. Both of these practices encourage the submittal of accurate data.

The cost of the survey is FREE. We estimate that the survey should take approximately 10 to 15 minutes to complete. Whole numbers should be used for all entries, unless noted otherwise.

Note: All questions you will be presented with when taking the survey require a response.

Note: Your responses are completely CONFIDENTIAL. No SEAC member will ever see your completed survey. Overall survey results will be discussed at the August 2018 meeting of the Business Management Committee. In addition, a portion of the results may be presented at one of the General Meetings.

For questions regarding the content or interpretation of questions appearing in the survey, please contact [Jim Ness](#) via telephone at (303) 886-6442.

Young Members Group

Structural Engineers Association of Colorado

NCSEA YMGSC Trivia Night

Come share your trivia knowledge with the SEAC YMG as we compete against young member groups from across the Western half of the US in the 4th Annual NCSEA Young Member Group Support Committee Trivia Night! Join us on Wednesday, July 18th from 5:30pm-8pm for pizza, beer, and some off the wall trivia questions as we compete live in this web-based trivia competition. The winning YMG receives a \$100 gift card to help fund future YMG events.

To double the fun, this year we plan to have teams competing in both Denver and Boulder. To participate, please register for the appropriate locations using the links provided below by end of day on Friday, July 13th.

To join the Boulder team, register [here](#).

Location: JVA, Inc.
1319 Spruce Street
Boulder, CO 80302

To join the Denver team, register [here](#).

Location: Anchor Engineering
2535 17th Street
Denver, CO 80211

SEAC YMG Happy Hour

SEAC and ASCE YMG Happy Hour

The SEAC and ASCE Young Member Groups joined forces for a happy hour event on Tuesday, April 17th at Resolute Brewing. Between the two organizations, around 18 young engineers and industry associates stopped by for the opportunity to mingle and enjoy appetizers sponsored by the ASCE YMG. The event also celebrated the individuals who sat for the PE and SE exams the previous weekend with a delicious cake.



Young Members Group



Lets celebrate and congratulate our Young Members! Each year, NCSEA recognizes its Young Members and Young Member Groups with awards that help fund their experience at the [Structural Engineering Summit](#). The winning Young Member Group and the Summit Scholarship recipients will be recognized at the Young Engineer Reception at this year's Summit in Chicago on Wednesday, October 24th.

Young Member Summit Scholarship

This scholarship awards new and returning SEA young members funding to attend the NCSEA Structural Engineering Summit, which includes a free registration and, for new attendees, a travel stipend. Young members have the choice to submit applications with written essays or video entries.

[Learn More & View Last Year's Recipients](#)

Young Member Group of the Year

This award recognizes an outstanding SEA Young Member Group that is providing a benefit to their young members, member organization, and communities. Three finalists will receive complimentary registration to send a representative from their YMG to the [NCSEA Summit](#).

[Learn More & View Last Year's Finalists](#)

Applications are due Friday, June 1st!
[Apply for a Scholarship](#) | [Apply for YMG of the Year](#)



Did you know that SEA Young Members receive a special registration rate for the Summit?

[Click here](#) to read more about what Young Members receive when they register as a Full Conference or Full Conference Plus attendee!



[The SE3 Survey is LIVE NOW!](#)

The NCSEA Structural Engineering Engagement and Equity (SE3) Committee is currently administering a nationwide survey of structural engineering professionals. This survey is designed to provide valuable information about our profession regarding demographics, compensation, satisfaction, and engagement. It will be one of the largest comprehensive nationwide surveys of structural engineering professionals to date, and **we invite you to contribute to this project by completing the survey:**

<http://www.surveygizmo.com/s3/4135045/SE3-Survey-2018>

This project began in 2015 when SEAONC (Structural Engineers Association of Northern California) funded a committee to study engagement and equity in the structural engineering profession. In 2016, this group administered their first national survey of over 2,100 structural engineering professionals. Findings from this study included insight into why engineers leave the profession, the importance of mentorship, and the existence of a nuanced gender pay gap. **To read the full report or get a quick summary, check out: <http://www.se3project.org/>**

In mid-2017, an SE3 Committee was created at the national level through NCSEA with the primary goal of administering a similar nationwide study of structural engineering professionals every two years. This biennial survey will focus on measuring engagement and equity with the goal of providing data and best practices to help ensure that every structural engineering professional has a positive experience within our profession.

Over the past seven months, we've been developing the 2018 version of this survey, and it is now live! We would love to have your input. **If you'd like to participate, the link to the survey is also available on the SE3 website at ncsea.com/committees/se3.**

Announcements

Structural Engineers Association of Colorado



2018 Structural Engineering Summit
Sheraton Grand, Chicago, IL
October 24–27, 2018

Registration rates for the 2018 NCSEA Summit in Chicago increase June 1st. Visit www.ncsea.com to register. Discounts are available for engineers 35 and younger, and first-time attendees. Each year, NCSEA awards Young Member Scholarships to the NCSEA Structural Engineering Summit. The scholarship competition is open to any current member of an NCSEA Member Organization, such as SEAC, who is under the age of 36. Scholarships provide registration to the summit and a travel stipend. SEAC member James Foreman with Martin/Martin won last year. The application can be accessed [here](#).

Electronic Signatures

The City and County of Denver has a new e-mail submittal process for building permits.

Review their Electronic Signatures tutorial for BlueBeam Revu and Adobe Acrobat [here](#).



As a reminder, the Colorado AES Board rules state that electronic signatures require a digital authentication process generated by public key infrastructure or signature dynamics technology. The Colorado Department of Regulatory Agencies (DORA) has not commented on whether or not the City and County of Denver's process complies with the Colorado AES Board Rules for signatures.

Thank you!

SEAC would like to thank Martin/Martin and their staff for hosting the March SAP Training.
We were able to train 42 people!

MASTERWORKS RMMI Presents: Masterworks in Masonry



We are now accepting submissions for our Masterworks in Masonry Awards.

Anyone from the design/build team may enter a project in the competition - the architect, engineer, GC, supplier, or mason. First, second and third place awards will be given in six categories - Historic Preservation, Commercial, Multi-Family/Residential, Educational, Government, and Non-Building

[Click here](#) for more information and to submit your project! The deadline for submission is September 1st.



INTERNATIONAL
CONCRETE REPAIR
INSTITUTE

ICRI Rocky Mountain Chapter: Concrete Repair at High Altitude

Breckenridge Ski and Racquet Club Restoration By Chris Sajbel National Sales Manager Pecora Corporation – 25 years in the concrete repair industry ICRI, SWRI, ACI, and holds credentials as a certified American Segmental Bridge Institute grouting technician

When: May 17th – 11:30 – 1:30

Where:

VIEWHOUSE
EATERY, BAR & ROOFTOP

Cost : \$40 To Sign up: contact Mike Devlin at mike@rocketsupply.net or 303-810-9282

Jim Harris Named Honorary Member of ACI



SEAC wishes to congratulate James R. Harris, P.E., Ph.D. for being recognized as one in a 2018 class of six Honorary Members of the American Concrete Institute. To be given this distinguished honor, Honorary Members must either demonstrate eminence in the field of the Institute's interest, or have given extraordinary meritorious service to the Institute. Those who know Jim know that he qualifies for ACI's honor on both counts. Engineers who are as committed to serving our profession as Jim is, are rare. This is apparent when you realize that the last Colorado-affiliated engineer to receive this honor was Milo S. Ketchum in 1986. Congratulations Jim, and thank you for always representing our profession and Colorado with distinction.

2018 Structural Engineering Institute Fellows

Congratulations to Julian Lineham, P.E. and Rob Jackson, P.E. for their advancement to the grade of SEI Fellow. This grade distinguishes ASCE members as leaders and mentors in our profession. Rob and Julian join Jim Harris and Jon Peterka as SEAC members chosen to receive this national recognition.



Support Students!

Structural Engineers Association of Colorado

SEAC encourages involvement and opportunity for students who will become the next generation of structural engineers in Colorado. *The current student rate is \$60* which be a financial obstacle for student participation.

SEAC in Northern Colorado has already instituted a successful sponsorship program to encourage student participation; we are extending this program state-wide. **Sponsorship is \$40 per student;** (the student will pay the remaining \$20 portion of the fee).

If you are interested in sponsoring one or more student memberships, send a check to SEAC with "Student Sponsorship" in the memo line to

SEAC
PO Box 441069
Aurora, Co 80044

These sponsorships will go to students pursuing their Master's Degree and seeking a career as a structural engineer. Please include a name and email address for the students to contact you. Thank you for your participation!



Each year, the SEAC Scholarship Fund, Inc. awards two \$3,000 scholarships to students studying structural engineering. Over the last ten years, we are grateful to have had the support of 48 separate firms and individuals with cumulative contributions ranging from \$20 to over \$20,000.

Engineering tuition at Colorado's universities has increased by 75% since the Scholarship Fund was founded in 2007. With your help and support, we can increase the number of recipients or the dollar amount for each scholarship to continue to grow the strong engineering community we enjoy in Colorado.

Additional information such as past winners, our donor list, and a pledge form can be downloaded from <https://seacolorado.org/scholarship>

Support Students!

Structural Engineers Association of Colorado

Team: Daedalus

Colorado School of Mines

Concrete Canoe



This year's canoe, the Daedalus, aptly named for the skilled craftsmen and engineer of Greek mythology, competed in the Rocky Mountain Regional Student Competition at the beginning of April and performed admirably. The competition weekend was punctuated by the highest highs and the lowest lows. To the Team's dismay,

upon arrival at the competition it was discovered that our canoe was seriously and irreparably damaged during transport due to factors outside of our control. It seemed the competition was all but lost, but staring in the face of adversity our team pulled together to achieve a fantastic 1st place finish in the Oral Presentation and an impressive 2nd place finish for the design paper. Overall, our well prepared and hardworking team tied for 3rd out of 16 teams despite the severe damage that left Daedalus shipwrecked.

OUR NEXT STEP: Since the Colorado School of Mines hosted the National Concrete Canoe Competition in 2017, our team has the opportunity to compete at the National level. With determination and fortitude, team Daedalus WILL compete in the National Competition in San Diego, California in June and we plan to bring our A+ game. In order to make this happen, our team must raise \$1500 to cast a new canoe as well as \$4500 to send our 9 team members to the competition. With the money graciously donated so far, we are able to begin casting a replacement canoe immediately, but we need your help more than ever to get our team to San Diego. Will you be a part of helping us reach our goal? Consider leveraging your support by sharing our story with your friends, coworkers, and family to ensure our strong showing at the National Concrete Canoe Championships this June.

Click on the link below to go to our page and learn more:

[Concrete Canoe Website](#)



ANNOUNCEMENTS

Structural Engineers Association of Colorado

Welcome to our Newest Members

Professional Members

Daniel Kane
Martin/Martin

Stephanie Gates
Ascent Group

Robert Halliday
PK Associates, LLC

Aaron Wetherbee
Jirsa Hedrick Structural Engineers

Benjamin Gallaher
JVA, Inc.

Linda Peters
KL&A

Affiliate Members

Alexander Lakocy
DCI Engineers

Emily Lobnitz
J.R. Harris and Company

PCI Big Beam Contest

Structural Engineers Association of Colorado



March 27th, SEAC members had the opportunity to attend Colorado State University's PCI Big Beam Load Test at the [Bureau of Reclamation Concrete, Geotechnical, and Structural Laboratory](#).

PCI's Student Education Committee organizes the [Big Beam Contest](#). The objective is for teams of students to design, fabricate and test a precast/prestressed concrete beam with the help of a local precast concrete producer. Plum Creek Structures is the local PCI Producer sponsoring CSU this year. The student team is comprised of 5 seniors, with Dr. Rebecca Atadero as faculty advisor. Prizes are awarded to the top performers in each of 6 PCI zones in consideration of efficient design, highest load capacity, and other categories. This is the third event of this type in our region.

The beam had to span 20ft, have two point loads, and break between 32K and 39K.

The beam was loaded to service, ultimate, and failure, with the Bureau's [5-million Pound Universal Testing Machine](#). This piece of equipment is three stories above ground and almost two stories below ground. The beam ended up failing at 41K.

After the test, employees of the bureau gave students and SEAC members a tour of the lab.

PCI Headquarters is collecting results through June 2018. We should hear soon after that how CSU's team stacked up against the rest of the country.

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



anthem
structural engineers

303.848.8497

anthemstructural.com

PROJECT MANAGER STRUCTURAL ENGINEER POSITION – STEAMBOAT SPRINGS COLORADO

We are currently seeking a full-time structural project manager to join our team of professionals and help start up our new office in Steamboat Springs, Colorado. The successful candidate must be able to work independently and have excellent verbal communications and writing skills. Our firm is active in the design and drawing production of residential, commercial, industrial and non-building structures.

Preferred Qualifications:

- B6 to 15 years of professional experience
- .S. or M.S. degree in Structural, Civil, and/or Architectural Engineering
- Excellent verbal communication and writing skills
- Experience with business development and client management
- Passionate about the art of engineering and self-motivated
- Strong technical skills and familiar with using Revit Structure, AutoCAD, and common structural analysis software (i.e. Risa 2D/3D, Enercalc, Forte, Microsoft Office Programs, MathCAD, RAM Systems Structural Software,)
- Experience with residential structural design
- Experience with industrial and commercial structural design preferred

Design experience with wood, concrete, steel, and masonry – experience with post-tensioned concrete a plus

Typical Job Responsibilities Include:

- Represent Anthem in the Steamboat Springs market as a knowledge leader and expert
- Support and coach Anthem production staff for success
- Delegate work to staff in Boulder office from satellite office in Steamboat Springs
- Provide and/or assist in structural engineering design and drafting for a variety of projects
- Assist with preparation of construction documents using Revit and/or AutoCAD
- Construction administration support, including site visits, shop drawing review, responding to RFI's and field modifications, and preparation of field observation reports

Anthem offers competitive salaries, an enjoyable work environment and comprehensive benefits. We strongly believe that a proper work-life balance and the happiness of our employees result in the efficiency of our operation and our overall success.

Salary and benefits are commensurate with experience. *Please send cover letter, resume with specific project experience, and a reference list to: sboren@anthemstructural.com*

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



303.848.8497

anthemstructural.com

PROJECT STRUCTURAL ENGINEER POSITION

We are currently seeking a full-time project structural engineer to join our team of professionals. Our firm is active in the design and drawing production of residential, commercial, industrial and non-building structures.

Preferred Qualifications:

- 3 to 5 years of professional experience (Recently licensed as a P.E. or prepared and eligible to take the October 2018 P.E. Exam)
- S. or M.S. degree in Structural, Civil, and/or Architectural Engineering
- Strong technical skills and familiar with using Revit Structure, AutoCAD, and common structural analysis software (i.e. Risa 2D/3D, Enercalc, Forte, Microsoft Office Programs, MathCAD, RAM Systems Structural Software, etc.)
- Experience with residential structural design
- Experience with industrial and commercial structural design preferred
- Design experience with wood, concrete, steel, and masonry – experience with post-tensioned concrete a plus
- Excellent verbal communication and writing skills
- Passionate about the art of engineering and self-motivated

Typical Job Responsibilities Include:

- Provide and/or assist in structural engineering design and drafting for a variety of projects
- Assist with preparation of construction documents using Revit
- Construction administration support, including site visits, shop drawing review, responding to RFI's and field modifications, and preparation of field observation reports

Anthem offers competitive salaries, an enjoyable work environment and comprehensive benefits. We strongly believe that a proper work-life balance and the happiness of our employees result in the efficiency of our operation and our overall success. Salary and benefits are commensurate with experience. *Please send cover letter, resume with specific project experience, and a reference list to Sboren@anthemstructural.com.*



PEAK ENGINEERING, INC.

Structural Design Engineer

Peak Engineering is seeking structural engineers with 2-4 years' experience in structural design of buildings for our Lakewood, CO office. Our project work includes a wide range of commercial building projects in Colorado and throughout the United States. Duties would include structural design in steel, concrete, masonry, and wood with specification writing, construction documents and construction administration. If you are interested in the design of such projects in an active, creative environment then we would like to talk to you about joining our team.

Requirements:

- A B.S. degree from an accredited institution is required
- Must have passed the E.I.T. Exam
- Experience with Revit Structure would be a plus
- Applicant should have excellent written and verbal skills and be an independent self-starter

For more information, visit our website at: www.peakengr.com **Please send your resume to HR@peakengr.com.** Peak Engineering is a Denver Metro area consulting firm with over 25 years of national structural engineering experience with a wide range of project types using multiple building materials. We provide design services for new buildings, renovations, seismic upgrades, structural evaluations, and specialty equipment. We are experts in the design of tilt-up concrete structures and offer innovative cost saving solutions. We deliver quality structural engineering with an emphasis on service, creativity, flexibility, and principal involvement.

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



Experienced Structural Engineer:

Anchor Engineering, Inc. is seeking an experienced structural engineer to join our team in Denver, CO. We are a full service consulting structural engineering firm that specializes in a variety of diverse projects. These projects include, but are not limited to, commercial, office, retail, large multi-family, single family custom, and single-family production homes. The ideal candidate for this position will have 4-8+ years of progressive structural engineering experience.

Why Anchor Engineering

- Team driven culture with a friendly and family-like work environment
- Competitive salary and excellent benefits package
- Comprehensive training
- Beautiful LoHi office location

Job Description:

- Assist in the development and design of projects which consist of calculations packages, structural plans and details, and specifications.
- Develop feasible design alternatives.
- Identify and analyze the principle structural design features and major design alternatives that satisfy the project's purpose and needs.
- Review of design plans, details/sections, specifications and estimates in accordance with the applicable Building Code, project requirements, and internal office standards.
- Provide day-to-day guidance and input to technical and/or support personnel.
- Daily interactions with new/existing clients
- Assist with budgeting, scheduling, billing, collections, contract management, and fee negotiations.
- Other duties as assigned.

Ideal Candidate:

- 4-8+ years of Structural Engineering experience
- Professional Registration as a Professional Engineer (P.E.) and must possess a Colorado P.E. License, or working toward achieving Professional Engineering License.
- Experience in Concrete, Structural Steel, Masonry, and Timber Design.
- Demonstrates a commitment to continued professional growth and development
- Advanced knowledge and experience in the area of structural analysis and design using conventional hand-calculation methods, structural computation and modeling software and computer aided drafting software. Advanced knowledge of AutoCAD, Excel and Word, as well as various structural design software programs.
- Revit and Ram Concept proficiency desirable.

Please email a cover letter and your resume to hr@anchoreng.com. No phone calls please. Anchor Engineering is an equal opportunity employer.

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



STRUCTURAL ENGINEERING (+ MORE) POSITIONS in Boulder and Larimer County Offices, and Denver Location

We still have an abundance of work, with opportunities in Loveland, Lafayette, and Denver:

- **Structural Engineer in Loveland office:** We need a hard-working engineer in this small office who can help with structural design immediately and additional responsibility as able. *Minimum EIT with 2+ years design experience.*
- **Structural Engineer in Lafayette office:** Experience level not specific, but whether new engineer or experienced PE, this would start with designing or managing existing projects and lead to engineering management responsibilities when able.
- **Project Manager for new Denver office:** Second person needed to help launch a new Denver office. Responsibilities include managing existing projects while helping grow our Denver clientele. *Minimum PE with 5+ years design experience.*

We strive to offer the best opportunities in our field. We offer a competitive performance-based pay, plus our project managers earn profit on their projects that exceeds 15% of revenue. This allows principal-level salaries for experienced staff. Several factors make this possible:

- **Performance pay** (instead of fixed salaries), where an engineer's pay is set by the engineer and limited only by project profits. This dramatically increases engineering efficiency, both immediately and over time as processes are continuously improved at all levels.
- **Distributed management:** Once payroll is performance-based, all projects can be managed entirely by our engineers, from contract to collections, with corporate assistance available but not required. This dramatically increases corporate efficiency.

The resulting efficiency "breaks the market". SEAC research shows that structural engineering compensation in most local firms is roughly 45% of billable work after all benefits and bonuses. The average profit of those companies is reported at 15% of all project revenue. For example, a licensed Project Manager should be billing 1725 hours after 5½ weeks vacation @ \$132/hr = 225k per year. His base salary will be 87k with 5k in health benefits and 9k of other stuff (bonuses, retirement, etc.) = \$101k in total compensation. If he is working 1864 hours per year (billable + admin), then he is effectively earning \$54 per hour when working.

By comparison, DLK pays 65% of every project's revenue directly to the engineers working on the project. The engineer above, managing 225k of billing, would make over \$146k per year. (NOTE: Our project managers actually earn *more* than 146k on average because they manage other engineers' work. And because increased efficiency means higher billing rates, they do this while actually working less hours – and typically before reaching 10 yrs of experience.) All our salaries are then posted monthly and our corporate books are completely open. We also post the annual SEAC Salary Survey so each person can compare it to their own pay. Engineering work then takes on a level of freedom and flexibility generally available only to business owners, but with the support of a unified team. And the company stock consistently earns 10% profit. *Note that this pay structure was born in the Recession, and worked as well in 2009-11 as today.*

And we have a solid annual growth based on consistent investment in business-savvy engineers. Under God's gracious provision, this is a "recession-ready" model where every engineer is trained to generate and maintain revenue; it is why we consistently have more projects than we can take on, why every project can be so carefully managed from start to finish, and why our clients return again and again.

At the center of all this is our commitment to see everyone on our team maximize their potential in engineering and business while keeping their career balanced with higher priorities in life. This commitment is constantly leading to new growth and opportunities we could not have planned or anticipated!

We encourage interested engineers to contact us immediately:

- | | | | |
|------------------------|----------------|--------------|--|
| • Lafayette or Denver: | Delchi Fafach | 720-785-4623 | delchi@dlkeng.com |
| • Loveland: | Daniel Belleau | 970-227-6368 | daniel@dlkeng.com |

Newsletter Ads

Structural Engineers Association of Colorado



YOUR ADVERTISEMENT HERE

Consider placing an ad in the bi-monthly SEAC newsletter to reach over 300 members, including professional engineers, suppliers, and vendors.

Contact Kim Wyatt at administrator@seacolorado.org or go online to <https://seacolorado.org/seac-shop/>.

Full Page Employment Ad: \$250
Half Page Employment Ad: \$150
Quarter Page Employment Ad: \$100

Full Page Ad: \$350
Half Page Ad: \$250
Quarter Page Ad: \$200

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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!