

STRUCTURAL ENGINEERS OF COLORADO NEWSLETTER

2020 SPRING SCHEDULE SIGN UP FOR THESE EVENTS AT

HTTPS:// SEACOLORADO.ORG/

SEAC Breakfast Meeting

January 16, 2020 Lakewood Country Club 6800 W 10th Ave. Lakewood, CO 80214 7:30am-9:00am Out-of-area may participate via WebEx

SEAC NoCo Meeting

January 16, 2020 CTL Thompson 400 North Link Lane Fort Collins, CO 80524 7:30am-9:00am

YMG HSS Connections

January 22, 2020 Martin/Martin 12499 W Colfax Ave. Lakewood, CO 80215 6:00pm

SEAC/CAGE YMG Ski Trip

February 21, 2020 Transportation to Winter Park from TRex RTD Lot Morrison, CO 7:00am-6:00pm

Business Management Committee Meeting

February 13, 2020 Martin/Martin 12499 W Colfax Ave. Lakewood, CO 80215 7:30am-9:00am

January General Meeting

January 16, 2020 Lakewood Country Club 6800 W 10th Ave Lakewood, CO 80214 7:30am-9:30am

Help Me Help You—A Panel Discussion

Join us for a lively discussion on how Geotechnical Engineers and Structural Engineers can provide value to each other on projects.

Panelists include:

Kathleen Noonan, AG Wassenaar
Ralph Rempel, Martin | Martin
Tom Soell, JVA
Pete Stauffer, Wiss, Janney, Elstner Assoc.





Volunteer in 2020

If you would like to become more involved in SEAC, you can join a committee (listed on page 5) by simply contacting the Committee Chair or the SEAC Office at administrator@seacolorado.org. There are many ways to have an impact on your profession, from planning presentations, to outreach, to supporting networking events. Get involved!

PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

The first thing I would like to say as the new president of the Structural Engineers Association of Colorado (SEAC) is wow, is this real? When I joined SEAC, I would never have believed I would be the president one day. Looking back there are many truly amazingly talented people that have held this position in the past. One was a mentor to me in my early professional life, encouraging me to join SEAC, and others have guided my time on the board. Not to sound cliché, but there are some big shoes to fill.

My goal over the next year is to provide our members with the tools they need to advance our profession. Advance through education, enrichment, and public outreach. Enrichment focusing on recruitment and retention, to make sure our profession has the talented engineers that it needs to lead us into the future.



Over the last several years I have witnessed firsthand the successes of our committees. We are ever advancing with the education and enrichment programs provided by our committees. We are in a pretty good place, and with the help of our amazing volunteers and input from our membership, this will continue.

The momentum our active committees have achieved allows this year's board to advance our profession outside our community. Increasing the structural engineering community's visibility through public outreach. Looking towards the future.

Over the next year, SEAC will continue to provide the programing you have seen over the past several years, but we also will work towards advancing our profession.



Welcome to our Newest Members

Kristyn Hartmann (Professional Member) SGM Inc.

> Jeffrey Kvamme (Affiliate Member) AECOM

Amy McDaniel
(Professional Member)
PK Associates LLC

Shane Miller (Upgrade to Professional Member) Froelich Engineers, Inc.

Marshall Murphy (Affiliate Member)
Albright and Assoc.

Mindy Nastal (Professional Member) SGM Inc.

BOARD OF DIRECTORS

Structural Engineers Association of Colorado



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S.A. Miro, Inc.
720-407-1031

president@seacolorado.org



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303-804-7003

vp@seacolorado.org



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303-783-4797

secretary@seacolorado.org



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Jirsa Hedrick
303-839-1963
director1@seacolorado.org



Maryann Davis
Director
Drake-Williams Steel
720-354-4664
director2@seacolorado.org

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!

ANNOUNCEMENTS

Structural Engineers Association of Colorado

Membership Renewals

Renew your membership on line by January 31st in order to maintain access to all of your membership benefits such as:

- 20% Discount on 80+ publications including the 2018 IBC, ASCE 7-16, 2015 NDS, and ACI 318-14.
- Discounted prices for NCSEA Webinars and SE Exam Review Course.
- STRUCTURE magazine subscription
- Structural Connection subscription
- SEAC Newsletter with structural engineering position advertisements, industry developments, and notification of upcoming events such as Young Member Group Happy Hours, Project Presentations, Job Site and Plant Tours, Breakfast Meetings, and Seminars.
- Free live web broadcast of general meetings for out-of-area members.
- Access to recordings of past general meeting presentations.
- Bimonthly breakfast meetings with an opportunity to earn PDHs and network within our industry.
- Discounted prices for the Fall Seminar and Annual Dinner.
- Opportunity to participate in technical and professional committees that shape our profession on topics from code development to business management.

If you have not received a dues notice, need to correct your local or out-of-area status, or want to upgrade your membership type, please contact SEAC at administrator@seacolorado.org.

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	Desiree Mackey	(303) 431-6100	Jeremy Crandall
Building Dept. Liaison	Jerry Maly	(303) 914-4300	Chad Mitchell
Business Management	Paul Doak Tom Soell	(303) 399-5154 (303) 444-1951	Lacey Goetz
Construction Industry	TBD	TBD	Jeremy Crandall
Denver Building Dept.	Jerry Maly	(303) 914-4300	Chad Mitchell
Education	Irena Kahanek Holly Janowicz	720.296.7595 303.860.9021	Chad Mitchell
Ethics	Peter Marxhausen	(303) 947-5375	TBD
Existing Structures	Gene Stevens	(303) 860-9021	TBD
Membership	Matthew Hood	(303) 318-6539	Maryann Davis
Nominating	Jerry Maly	(303) 914-4300	Jeremy Crandall
Northern Colorado	Greg Black	(970) 619-8986	TBD
Southern Colorado	TBD	TBD	Chad Mitchell
Western Slope	Bob Patillo		Mike Piper
Precast Concrete	Trevor Kirkley	(303) 298-1900	Jeremy Crandall
SEER	Brent Norris Mike Piper	303.860.9021 303.431.6100	Mike Piper
Scholarship	Jeannette Torrents	(303) 444-1951	Maryann Davis
Seismic Standards	Rob Jackson	(303) 843-2850	Lacey Goetz
Snow Loads	Jeannette Torrents	(303) 444-1951	TBD
Standard of Practice	Jim Ness	(303) 623-4927	Chad Mitchell
Steel Materials	Sylvia Iverson Eric Sobel	(303) 757-6323	Maryann Davis
Wind Loads	<u>Dale Jones</u>	(970) 568-2919	TBD
Young Members	Katie Courtright Charlie Petzinger	303.399.5154 303.783.4797	Jeremy Crandall

GINGERBREAD BRIDGE COMPETITION

Structural Engineers Association of Colorado

No, we're not changing our name to the American Institute of Gingerbread Construction or the National Gingerbread Bridge Alliance, but you'll want to get a load of the amazing baked bridges from the 2019 Competition. Denver's Gingerbread Bridge Competition, started by Ascent Group in 2006 and coordinated by the Structural Engineers Association Colorado Young Member Group (SEAC YMG), drew 16 teams of architects, engineers, contractors, and students in December. Teams ranging from middle-schoolers to practicing professionals created their bridges ahead of time and brought them to Dry Dock Brewing Co. to be judged in the categories of Architectural Design, Structural Design, and People's Choice. The Structural Design rankings are based on the ratio of the total load capacity to bridge weight. Proceeds from the event go to charities designated by first-place teams. Check out the winning bridges by clicking here!



1st Place Architectural Design: Yellow Brick Bridge - Campus Middle School 6th Grade STEMblazers



1st Place People's Choice: Route 66 - RMG

YOUNG MEMBERS GROUP

Structural Engineers Association of Colorado

Top Things You Should Know About HSS Connections

HSS connections often seem mysterious — but they don't have to. While not a how-to guide, this presentation highlights aspects of HSS connection design that are often overlooked or misunderstood. Attendees will gain a clear understanding of tension, shear, moment and truss connections and how they differ from other types of connections.

Join the SEAC YMG on Wednesday, January 22nd at the Martin/Martin office in Lakewood at 6PM for a presentation on HSS connection design provided by Altas Tube. Atlas Tube is the largest producer of steel HSS sections in North America.

Click here to register.

SEAC Young Member Group will be hosting a ski trip with Colorado Association of Geotechnical Engineers' Young Member Group on Friday, February 21, 2020. This event is open to anyone from SEAC or CAGE that is interested. The trip will include round trip transportation from Golden (T-Rex Parking Lot, Morrison Exit off I-70), lunch, and your lift ticket. Reduced prices are available for those that may already have a ski pass. Come join us for a fun day of skiing and networking on the slopes! We are seeking Sponsorships! Stay tuned for more information.



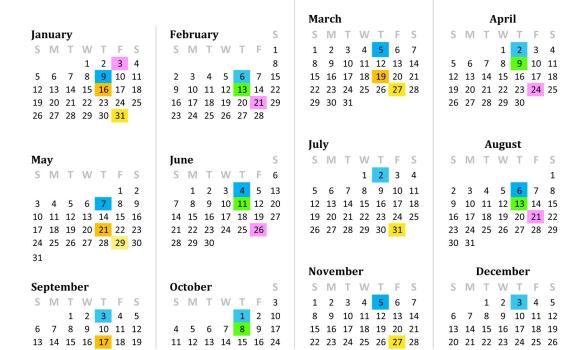




2019 CALENDAR OF EVENTS

Structural Engineers Association of Colorado

SEAC Calendar 2020 **Important Dates** BOD Meetings - 7:30am at S.A. Miro General/Annual Meetings - 7:30am Thursday January 9, 2020 Thursday January 16, 2020 at Lakewood Country Club Thursday February 6, 2020* Thusday March 19, 2020 at Lakewood Country Club Volunteer Training with Leo Baran, NCSEA - Feb. 28, 2020 Thursday May 21, 2020 at Lakewood Country Club Thursday March 5, 2020 Thursday July 16, 2020 at Lakewood Country Club Thursday April 2, 2020* Thursday September 17, 2020 at Lakewood Country Club Thursday May 7, 2020 Fall Conference TBD Thursday June 4, 2020* Annual Meeting November 5 at Space Gallery Thursday July 2, 2020 **SEAC Newsletter Deadlines** Thursday August 6, 2020* January issue - January 3rd March issue - February 21st Thursday September 3, 2020 Thursday October 1, 2020* May issue - April 24th Thursday November 5, 2020 July issue - June 26th Thursday December 3, 2020* September issue - August 21st * notes conference call only November issue - October 23rd Business Management - 7:30am at Martin | Martin **SEAC ENews Deadlines** Thursday February 13, 2020 February issue - January 31st Thursday April 9, 2020 April issue - March 27th Thursday June 11, 2020 June issue - May 29th Thursday August 13, 2020 August issue - July 31st October issue - September 25th Thursday October 8, 2020 December issue - November 27th



NCSEA NEWS

Structural Engineers Association of Colorado

Upcoming Webinars:

January 9th <u>Serviceability Design for the Practicing Engineer</u> Emily Guglielmo, S.E.

January 14th The Use of Geotechnical Reports by the Structural Engineer Mark Gilligan, S.E.

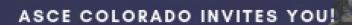
January 30th Efficient Design of Long-Span Composite Steel Deck-Slabs Vitaliy Degtyarev, PhD, P.E., S.E.

February 4th <u>SpeedCore: Rainier Square - A Project Case Study</u>
Brian Morgen

February 20th Basics of Strut and Tie Modeling Royce Floyd, Ph.D., S.E.

OTHER EVENTS OF INTEREST

Structural Engineers Association of Colorado



INFRASTRUCTURE REPORT CARD RELEASE

January 30, 2020 • 10:00AM Colorado State Capitol West Foyer 200 E Colfax Ave. Denver, CO 80203

RSVP/QUESTIONS TO PEYTON GIBSON 910-551-7054

OR PEYTON.J.GIBSON@GMAIL.COM



OTHER EVENTS OF INTEREST

Structural Engineers Association of Colorado



University of Colorado Boulder

Post-Disaster Safety Evaluation of Buildings & Infrastructure

ATC-20, ATC-45, and Cal OES SAP Training

Sunday 5 Apr 2020

8 AM - 5 PM



Training session

Colorado experiences earthquakes, floods, tornadoes, and other natural disasters that damage infrastructure and threaten people's safety. The 2013 Colorado floods damaged or destroyed 20,000 homes and 50 highway bridges. Colorado has experienced 7 damaging earthquakes since 1944 with magnitudes of 5.2 to 5.5, and in 1882 experienced a magnitude-6.6 earthquake near Estes Park. Damage from such events can overburden building safety officials and lifeline operators. Colorado is training a corps of volunteers to rapidly assess the safety of buildings and critical infrastructure, speed recovery, and help people quickly and safely return to their homes, offices, and public spaces. The training uses the de facto international standards for post-disaster safety evaluation procedures called Post-Earthquake, Windstorm and Flood Safety Evaluation of Buildings (ATC-20 and ATC-45).

The University of Colorado Boulder is providing training on ATC-20 and ATC-45 to prepare you to assess building and lifeline safety following a disaster. Taught by a University of Colorado structural engineer and certified California Office of Emergency Services Safety Assessment Program (Cal OES SAP) trainer with experience in U.S. and international disasters, you will learn basic engineering principles and standard procedures for post-disaster safety evaluation. You will participate in exercises using real-life examples of earthquake, hurricane, and flood damage from U.S. and abroad.

Training topics

- ATC-20/45 building safety evaluation procedures.
- Cal OES SAP certification for qualified professionals. Attendance is open to all but certification is limited to licensed engineers, architects, engineering geologists, building inspectors, and public-works inspectors; list at https://goo.gl/H2HahX.
- Training examples of damaged buildings from disasters in the U.S. and abroad.
- How do buildings and other infrastructure structurally react to extreme loads?
- Procedures and exercises for wood, masonry, concrete, and steel buildings.
- GREEN, YELLOW, and RED placards, what are they and how do we use them? When and how do you perform a safety assessment and post a building?

Training logistics

WHERE: Engineering Center ECCE room 1B41, Boulder CO; see map on reverse COST & CLASS SIZE: \$20 covers coffee, bagels, and donation to ASCE and EERI student chapters. Manuals provided free by FEMA. Limited to 50 people. Course provides documentation for continuing education units (0.8 CEUs).

TO REGISTER: visit https://sap-cu-apr2020.eventbrite.com

OTHER EVENTS OF INTEREST

Structural Engineers Association of Colorado



⋤ University of Colorado Boulder

Instructor

Keith Porter, P.E., PhD., M.ASCE

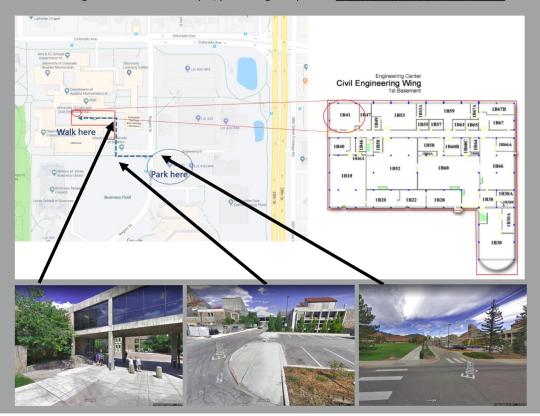


Dr. Porter is a licensed California professional engineer, a research professor at the University of Colorado Boulder, and principal of the consulting company SPA Risk LLC. He has 30 years of experience in structural engineering practice and university research addressing natural disasters. He leads the new Natural Hazard Mitigation Saves study for the National Institute of Building Sciences, updating the groundbreaking, Congressionallymandated 2005 benefit-cost analysis of natural hazard mitigation for 3 federal agencies and 4 private-sector sponsors. He helped to lead the US Geological Survey's ShakeOut, ARkStorm, Tsunami, and HayWired disaster planning scenarios. He has performed post-

disaster reconnaissance and data collection after several natural disasters in the U.S. and abroad. He is a certified Cal OES SAP trainer and holds engineering degrees from UC Davis, UC Berkeley, and Stanford University.

Directions to classroom ECCE 1B41

Park in paid lot 440, https://goo.gl/maps/8p99Nmsjq1S2. Follow the dashed lines on the map below to ECCE 1B41. If walking from elsewhere on campus, point Google Maps here: https://goo.gl/maps/C7ewhWcRrS72.



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