



STRUCTURAL ENGINEERS OF COLORADO NEWSLETTER

2020 FALL SCHEDULE
SIGN UP FOR THESE EVENTS
AT
[HTTPS://
SEACOLORADO.ORG/](https://seacolorado.org/)

[Virtual Speed
Mentoring Event](#)
9/10/2020

[SEAC September
General Meeting](#)
9/17/2020

[Fall 2020 SE/PE
AASHTO Review
Session](#)
9/24/2020

[SEAC Fall Seminar](#)
10/8/2020

September General Meeting

SEAC September Meeting
September 17, 2020
via Webex—7:45am-9:00am

PRESENTATION: *From Scrap to Steel: An Overview of Steelmaking a Joint Presentation with RMSCA - A193 High Strength Steel*

From congested project sites, to complex interfaces with existing infrastructure, to buildings that are rising higher than ever before – innovations in steel production have been essential to providing cost-effective solutions to overcome today's unique and interesting design challenges. Focusing on structural steel shapes, this presentation provides an overview the steelmaking process – from the procurement, sorting and cleaning of scrap to the completion of rolled wide-flange beams. It will highlight significant improvements that have led us to profiles with more than twice the strength than they exhibited 50 years ago. The presentation will also explore differences amongst commonly specified structural grades and will identify factors that should be considered when selecting the appropriate specification for a particular application. Special emphasis will be placed on unique profiles and the ASTM A913 specification – a high-strength, low-alloy steel for structural shapes that is made from a quenching and self-tempering process. The overarching goal of this presentation is to enable structural engineers to expand their creativity when striving to overcome challenges in their structural designs.

SPEAKER:



Shelley C. Finnigan, S.E.*; Global Technical Sales Engineer & Head of Technical Sales and Marketing, Americas; ArcelorMittal (*Illinois)

Shelley Finnigan serves as Global Technical Sales Engineer and Head of Technical Sales & Marketing for ArcelorMittal, the world's leading steel and mining company. She draws on more than 12 years of experience in structural engineering, marketing and business development to guide the technical marketing efforts of a team of engineers in the Americas. In addition, she serves as a liaison for the international community, advising project owners and their design teams on methods of increasing design efficiency when using ArcelorMittal's unique products and materials. The success of her efforts is recognized in design and construction efficiencies brought to projects such as 150 North Riverside (Chicago), Bay Adelaide Centre East Tower (Toronto), and Central Park Tower (New York), to name several. A licensed structural engineer in Illinois and active member of the design community, Shelley holds master's and bachelor's degrees from Purdue University and has served as Chapter Chair of CTBUH Chicago since co-founding it in 2018.

PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

Adaptation is changing behavior to adjust for environmental conditions. As I am out exploring Denver in my post lockdown world, I notice local restaurants adapting to the occupancy limitations for reducing community spread of COVID-19. Tables and umbrellas are showing up on sidewalks. Parking spaces in front of restaurants are being annexed as seating. In some locations, entire streets are closed to allow multiple restaurants to extend seating in the streets.

As I have discussed in previous newsletters, we are adapting to meet the challenges we are facing. Unlike restaurants, some of our adaptations will be permanent. Such as a more remote working or virtual meetings. I see this as making us better as we exit this crisis. Challenges spur on innovation. We as engineers thrive on challenges, solving problems daily. It kind of is our thing.



With social distancing requirements still in effect, the 2020 Fall Seminar will be a webinar rather than our traditional in person seminar. The Education Committee has worked hard meeting these challenging times. With this year's seminar being web based, it has allowed us to spread the topics over two days. Also, the webinars will straddle noon to reduce the effect on the work day. I am excited for the topics. First will be a discussion of the design of existing structures presented by our Existing Structures committee. The next two will be concrete topics. One on floor vibrations of reinforced concrete structures presented by Rob Kinchler, PE and the other and overview of CRSI's Design Guide on ACI 318 presented by Dr. David Faelle, SE.

Similarly, the September General Meeting will be a webinar presentation by our Steel Committee. The Board is still working on the logistics of the Annual Meeting and will be providing updates in the coming weeks.

Also the NCSEA Summit, which was scheduled to take place in Las Vegas, will be a virtual event. Check you e-mail inbox for additional information from NCSEA.

Lastly, due to COVID-19, we are canceling the Annual Meeting this year. We will be moving business items typically discussed in the Annual Meeting into our September General Meeting. This will include announcing nominations for the 2021 board. If you wish to nominate a Professional Member as a candidate for Secretary or Director, you will be given an opportunity to do so during this time.

Stay safe and healthy.

Charles S. Mitchell

SEAC President

Welcome to our Newest Members

Colin Coombes
Wells Concrete
Affiliate Member

Wendy Ballent
Foothills Bridge Co.
Affiliate Member

Dwight Gilbert
Ypsilon Engineering, LLC
Professional Member



2020 SEAC FALL SEMINAR

Wednesday, October 7th and
Thursday, October 8th

2020 Topics

LOCATION:

Webinar only

SEMINAR SCHEDULE: 4 PDH

Wednesday Oct 7th
12:00pm – 2:00pm

Thursday Oct 8th
12:00pm – 2:00pm

See pages 2-3

REGISTRATION:

Early Registration:

Deadline: Monday September 21st

Members: \$110.00

Non-Members: \$150.00

Students: \$15.00

Regular Registration:

Members: \$140.00

Non-Members: \$180.00

Students: \$20.00

Group Discount

5-9 People 10%

10+ People 15%

Register on the SEAC website

www.seacolorado.org

or

By mail with check and registration
form sent to:

SEAC

PO Box 441069

Aurora, CO 80044

See page 4 for registration form
Reference "Fall Seminar" in check
memo

SPONSORS:

See page 5-6

Existing Structures - It Is All about the Approach

By the SEAC Existing Structures Committee including Peter Marxhausen, M.S., P.E., Gene Stevens, P.E., S.E., and Evan Hammel, M.S., P.E.

How to Select a Reinforced Concrete Floor System for Vibration

By Rob Kinchler, PE

Overview of CRSI's Design Guide on the ACI 318 Building Code Requirements for Structural Concrete

By David A. Fanella, Ph.D., S.E., P.E., F.ACI, F.ASCE, F.SEI

Words from the President

It is an understatement that 2020 has been full of challenges, affecting our interactions and workflows. With COVID-19 remaining at the forefront and the need for social distancing to protect our members and community, we have decided to move the 2020 Fall Seminar to a webinar only event.

We greatly appreciate SEAC members' participation in our remote events during this unique time in our history. SEAC is working on other social distanced programming in the upcoming months to enrich our membership. Attendance in the webinar-based SEAC events to date has been encouraging, and I am hoping the Fall Seminar will follow this trend. We are very excited about the Fall Seminar topics this year, focusing on existing structures design, vibration design for concrete floor systems, and the new concrete design guide for ACI 318-19. These topics have been requested by SEAC membership in previous years, and we hope all attendees find the content valuable.

I look forward to meeting again in person when it is safe for our community to do so. In the meantime, I am excited for another successful Fall Seminar, just a little different this year.

Chad Mitchell
SEAC President

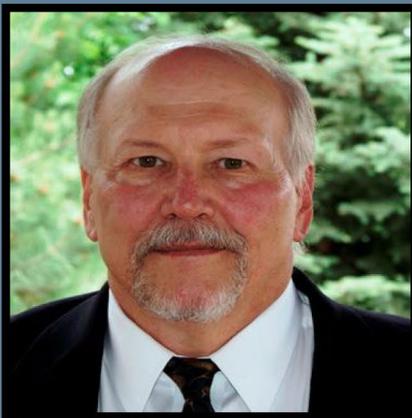
**2020 SEAC
FALL SEMINAR**
Wednesday, October 7th
12:00pm – 2:00pm



Peter Marxhausen, M.S., P.E.

The SEAC Existing Structures Committee will be presenting on the practice of structural engineering on existing structures for the 2020 SEAC Fall Seminar. For this presentation, we will discuss and highlight the International Existing Building Code (IEBC) and the applicable sections for modification to existing buildings, all the while keeping in mind the essential aspects of communicating this to our clients and how these deliverables can vary from traditional new design work. We will showcase how different approaches affect the deliverables for specific projects, using case studies to demonstrate how fieldwork can influence working with existing buildings, and briefly show the benefits of different fieldwork. All the while, we will provide anecdotes and experience in communicating the structural engineer's work to clients and how the IEBC can guide their work as well

Peter Marxhausen is the Director of Engineering for Unified Building Sciences & Engineering, Inc. and Instructor in the Civil Engineering department at the University of Colorado Denver. Peter is a leader in ethics. He doesn't accept a simple "NO" as a solution to a real problem affecting society. His experience spans beyond the past two decades, where he has continually served as a mentor and has focused addressing the tough questions.



Gene Stevens, P.E., S.E.

Gene Stevens is a Principle with J.R. Harris & Company, serves on ACI 562 & 563 and has 45 years of experience in structural engineering. Gene has been providing innovative approaches to existing structures from New York to Los Angeles. Since starting his professional career in 1976, Gene has advanced the practice of structural engineering through his deep understanding of structural mechanics, practical solutions, dedication to clients and willingness to do something different.



Evan Hammel, M.S., P.E.

Evan Hammel is a Field Engineer with Simpson Strong-Tie, chairs the SEAC Existing Structures Committee, Vice President of SEI-Colorado and has 15 years of engineering experience. Evan's experience includes building pre-fabricated structures, material estimating, structural analysis, construction management, original testing procedures, custom testing fixtures and understanding the philosophical differences delivery systems between new and existing construction projects. The area Evan is most passionate lies within existing structures.

**2020 SEAC
FALL SEMINAR**
Thursday, October 8th
12:00pm – 2:00pm

How to Select a Reinforced Concrete Floor System for Vibration

This presentation provides detailed information on how to select an appropriate flat plate, flat plate voided concrete, two-way joist, and wide-module floor systems for various vibration acceptance criteria. The main topics are (1) sources of vibration, (2) vibration acceptance criteria, (3) vibration characteristics of reinforced concrete floor systems, and (4) selection process. Presented are charts and design aids that give required overall thicknesses that satisfy acceptance criteria for walking excitations, rhythmic excitations, and sensitive equipment as a function of span length. Simplified methods are presented on how to calculate important vibration characteristics of floor systems, including natural frequency.

Overview of CRSI's Design Guide on the ACI 318 Building Code Requirements for Structural Concrete

This presentation provides a concise overview of the recently published Design Guide on the ACI 318 Building Code Requirements for Structural Concrete by CRSI. The main goals of this publication are to provide (1) a simplified roadmap that can be used to navigate through the requirements in Building Code Requirements for Structural Concrete (ACI 318-19) and (2) step-by-step design procedures and design aids that make designing and detailing cast-in-place concrete buildings with non-prestressed reinforcement simpler and faster. The content of the 996-page Design Guide is highlighted chapter by chapter throughout the presentation, including information on the over 140 examples, which illustrate proper application of the code requirements. Design procedures and design aids that can be used in everyday practice are also highlighted, as are the major changes that occurred in ACI 318-19.



David A. Fanella, Ph.D., S.E., P.E., F.ACI, F.ASCE, F.SEI

David is the Senior Director of Engineering at the Concrete Reinforcing Steel Institute. He has 30 years of experience in the design of a wide variety of buildings and other structures. David has authored numerous technical publications and is a member of several ACI Committees. He also serves on ASCE Committee 7, Minimum Design Loads for Buildings and Other Structures. In 2014, he was the recipient of the Alfred E. Lindau Award from the American Concrete Institute for outstanding contributions to reinforced concrete design practice. David is a licensed structural and professional engineer in Illinois and is a past board member and president of the Structural Engineers Association of Illinois.



Rob Kinchler, PE

Rob is the Greater Southwestern Regional Manager at the Concrete Reinforcing Steel Institute. He worked for 15 years as a design engineer designing powerplants, paper mills, and other industrial facilities. The past 16 years he has been promoting either structural steel with AISC or reinforced concrete with CRSI.



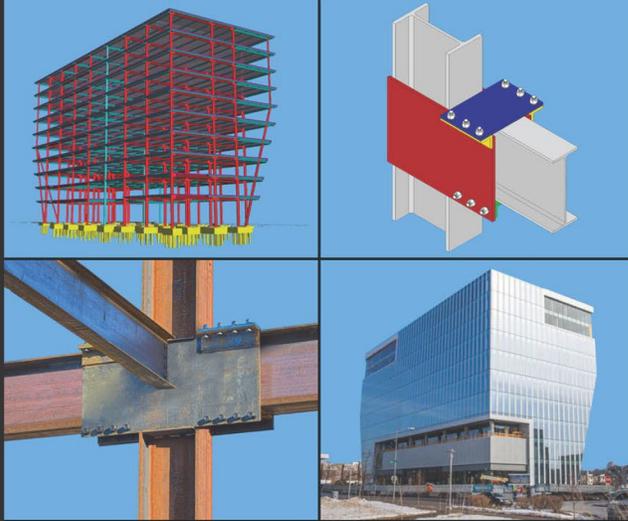
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Committee News

Structural Engineers Association of Colorado

SEAC Goes Virtual in First Project Presentation of 2020

The SEAC Education Committee on August 27 hosted a first-of-its-kind webinar presentation and virtual tour of the CU Denver City Heights Residence Hall and Learning Commons. As a precaution during the COVID-19 pandemic, SEAC pre-recorded this presentation at the Alliance Center at 1536 Wynkoop Street in Denver and taped a virtual walking tour at the job site on CU Denver's campus nearby.

Carl Hole, AIA, with Stantec Architecture, and Tim Hickisch, PE, with Jirsa Hedrick, discussed the project's design challenges, which included a tight delivery schedule, difficult soils and a serpentine floor plan.

For the virtual tour, Adam Ritchey, a project manager for general contractor JE Dunn Construction, shared some of the construction challenges associated with the structure, including the interface between the Learning Commons, which is steel framed, and the residential wings, which are composed primarily of cold-formed steel and concrete. The seven-story, 182,000-square-foot facility will serve as the university's first residence hall for first-year students.

While SEAC would have preferred to welcome attendees in person, there was an upside to offering this presentation and tour in a virtual format. More than 80 participants joined this event, which is far more people than can typically attend an in-person tour.



Committee News continued

Structural Engineers Association of Colorado

The SEAC Business Management Committee (BMC) is pleased to announce that the results of the 2020 SEAC Business Practices Survey (BPS) are now complete and pdfs have been distributed to the 23 firms that responded. The survey addresses salaries, staffing and a wide range of benefits including health insurance, vacation and sick time, parental leave and employee reimbursements. There is also detailed information on professional liability insurance and other performance metrics.

Firms that participated in the survey received the results for a \$50 fee. Non-participating firms can receive a copy for a cost of \$500 by reaching out to Becky Roland at broland@phoenix-amc.com.

Results from the Individual Compensation Survey (ICS) will soon be sent out to all 97 participants. The BMC will take a few minutes at the upcoming September 17th General Meeting to review the survey process and provide a brief overview of the information gleaned from the BPS and ICS surveys.

NCSEA YMGSC Trivia Night Spotlight

Six members from the SEAC YMG came together for a night of virtual fun for the 6th Annual NCSEA Young Member Group Trivia Night on Thursday, August 20th. Our band of rag-tag engineers put their knowledge to the test against teams from Northern California, Southern California, and Utah. The four trivia categories included concrete design, "Where on Earth am I?", trade fair logo recognition and structural engineering pioneers.

While we didn't come away with the \$100 gift card from the national event, we did finish the evening with our own Colorado chapter playing Disney trivia while laughs and conversation continued! We would love to have you join us in next year's event, but until then, here's some trivia from the night for you to ponder.

Questions:

- What is the chemical reaction between cement and water called?
- I'm driving across the tallest bridge in the world! What country am I in?
- I'm worshipping in a cathedral that started construction in 1882... it's not done yet! What country am I in?
- Could you recognize Simpson Strong-Tie, CRSI, ICC and RISA logos if the names were deleted?
- In the 1950's, he simplified welded connection design by treating welds as lines. He's not a structural engineer. He's a welder. (Hint: Bob the Builder was not the correct answer)
- Considered the "father of tubular designs" for high rises, he designed the Sears Tower and John Hancock Center in Chicago, IL. Who is it?



SE/PE AASHTO Review Session - Thursday, September 24

The SEAC YMG and Education Committee would like to invite you to the SE/PE Exam AASHTO Review Session led by Brandon Buder, P.E., S.E. with Parsons. The session will include a review of bridge design, including an overview of the AASHTO code, and discussion of exam-style practice problems.

Be sure to bring your AASHTO code and come prepared with questions. If you have specific practice problems you would like to go over, please submit them to ymg@seacolorado.org by the end of the day on Monday, September 21st.

Date: Thursday, September 24th from 6:30-8pm

Where: Zoom meeting. Call-in information will be provided to registrants as we get closer to the event.

RSVP: [Click Here](#) to register by the end of the day on Monday, September 21st.

Committee News continued

Structural Engineers Association of Colorado

NCSEA Summit Young Member Scholarship - Due Tuesday, September 22

Similar to past years, NCSEA will be awarding scholarships to young members around the country to attend the NCSEA Summit. The scholarship application is open to any current member of an NCSEA Member Organization (i.e. SEAC) who is under the age of 36. Scholarship recipients will receive a complimentary registration to the Virtual Summit! The Summit is scheduled to be held Wed., Nov. 4 - Fri., Nov. 6. [Click here to learn more & apply.](#)

ASCE Denver Branch and SEAC Joint Meeting— From Hyatt Regency Failure to Confidential Reporting on Structural Safety (CROSS)

From the Hyatt Regency Walkways Collapse to Confidential Reporting on Structural Safety – US: Learning from the Performance of our Built Environment

Glenn Bell, PE, SE, CEng, F.ASCE, F.SEI, F.IStructE

This presentation will explore the power and relevance of learning from the performance of our built environment, through the speaker's experience, which has spanned from investigation of the 1981 walkways collapse at the Hyatt Regency Hotel in Kansas City (HRKC) to the establishment in 2019 of Confidential Reporting on Structural Safety.

Measured in terms of loss of life and injury, the HRKC disaster still stands as the worst structural failure in US history. While most understand the cause of the failure to be a change in hanger rod arrangement during preparation of the structure's shop drawings, the underlying factors are far more complex and important to understand. In this project there were numerous opportunities lost to avert the failure. The lessons learned are rich and still relevant today, and recent experiences with the FIU Bridge collapse in Sweetwater, Florida and the Hard Rock Hotel Collapse in New Orleans show that today we are not immune from Hyatt-like disasters.

In 2019 the Structural Engineering Institute of ASCE introduced to the US a system for learning lessons from failures called Confidential Reporting on Structural Safety (CROSS-US). The CROSS system was launched in the United Kingdom in 2005 and has been highly effective in improving practice there. CROSS allows for the confidential acceptance of reports on failures and safety concerns. Anonymized reports are analyzed by a panel of experts for lessons learned and recommendations for improved practice, which are then posted on CROSS's website available to all.

[Click here to register.](#)

Doors Open Denver 2020: Registration is LIVE!

There's truly something for everyone in this year's Doors Open Denver lineup. We worked hard to strike a balance between historic/adaptive reuse and modern/contemporary offerings, as well as presenting sites we've never featured before – there are five NEW tours this year!

We're opening with a bang on September 28 (you'll see what we mean!). The beauty of this year's format is that you can easily participate in more than one virtual Insider Tour, and even experience them ALL if you like. Registration is open for the next four weeks and throughout Doors Open Denver, but we suggest you get [clicking here today!](#)

2020 CALENDAR OF EVENTS

Structural Engineers Association of Colorado

SEAC Calendar

2020

Important Dates

BOD Meetings - 7:30am at S.A. Miro
Thursday January 9, 2020
Thursday February 6, 2020*
Volunteer Training with Leo Baran, NCSEA - Feb. 28, 2020
Thursday March 5, 2020
Thursday April 2, 2020*
Thursday May 7, 2020
Thursday June 4, 2020*
Thursday July 2, 2020
Thursday August 6, 2020*
Thursday September 3, 2020
Thursday October 1, 2020*
Thursday November 5, 2020
Thursday December 3, 2020*
* notes conference call only
Business Management - 7:30am at Martin Martin
Thursday February 13, 2020
Thursday April 9, 2020
Thursday June 11, 2020
Thursday August 13, 2020
Thursday October 8, 2020

General/Annual Meetings - 7:30am

Thursday January 16, 2020 at Lakewood Country Club
Thursday March 19, 2020 at Lakewood Country Club
Thursday May 21, 2020 at Lakewood Country Club
Thursday July 16, 2020 at Lakewood Country Club
Thursday September 17, 2020 at Lakewood Country Club
Fall Conference TBD
Annual Meeting November 5 at Space Gallery
SEAC Newsletter Deadlines
January issue - January 3rd
March issue - February 21st
May issue - April 24th
July issue - June 26th
September issue - August 21st
November issue - October 23rd
SEAC ENews Deadlines
February issue - January 31st
April issue - March 27th
June issue - May 29th
August issue - July 31st
October issue - September 25th
December issue - November 27th

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Upcoming Webinars:

September 10th Gravity Loads and Photovoltaic Panels

September 16th Business of Structural Engineering: Day 1

September 22nd How to Design for Tsunamis: The ASCE 7-16 Tsunami Provisions and Project Examples

September 23rd Business of Structural Engineering: Day 2

September 30th Business of Structural Engineering: Day 3

October 1st Design of Chevron Connections

In Memoriam



Jirsa, Steven T

01/07/1948 - 08/15/2020

On August 15, Steve Jirsa died at home after a long battle with cancer. Steve is survived by wife, Barb, and children, Benjamin (Cathie) and Katherine (Kass); four grandchildren; special person, Jeff Kass; and siblings, Paul Jirsa, Mark Jirsa, and Joyce Ann Jirsa Kallsen. Steve was born January 7, 1948 in Cedar Rapids, Iowa. He graduated in 1966 from Cumberland High School in Wisconsin. He attended the University of Eau Claire-Wisconsin for two years and graduated from the University of Minnesota in 1970. Upon graduation, his love of skiing and a job at the Colorado Department of Highways brought him west. He also loved golf and was an active member at Valley Country Club. Steve formed Jirsa-Hedrick Structural Consultants with Ron Hedrick in 1990. JHA has provided structural design services on many major projects in the Denver metro area and throughout the United States. Upon retiring from JHA, Steve promptly started Jirsa Structural Consulting, working from home until April when his health worsened. Due to COVID-19, a celebration of life will be held at a later date.

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Structural Engineers Association of Colorado



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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!

NEWSLETTER ADS

Structural Engineers Association of Colorado



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