



## STRUCTURAL ENGINEERS OF COLORADO

### NEWSLETTER

# MAY SEAC GENERAL MEETING

## 2016 SCHEDULE

### Meetings

Loc: Renaissance Hotel  
Time: Breakfast 7:30 a.m.  
May 19  
July 21  
September 15

### Fall Seminar

Loc: TBD  
Date: TBD

### Annual Meeting

Time and Location TBD

### Board of Directors

Martin/Martin, Inc.  
Time: 7:30 a.m.  
January 7  
February 4  
April 7  
June 2  
August 4  
October 6

### Business Management

### Committee

Loc: Renaissance Hotel  
Time: Breakfast 7:30 a.m.  
February 11  
April 14  
June 9  
August 11  
October 13



## Building Information Modeling (BIM)

This presentation will offer a discussion of BIM as part of structural engineering. Why is BIM important, and why could it be important as time goes on? Where the structural engineering industry with BIM now, and where is it headed? With BIM now a permanent part of the structural engineering workflow, the question is not if we will be doing BIM, but what is our next step? It is important that structural engineers objectively observe the landscape, and take proactive and deliberate steps to incorporate BIM into our workflows. With BIM coming onto the scene mostly as a project or client requirement, structural engineers have been somewhat reactive in their BIM adoption. This approach limits choices and autonomy in the process and workflows. Thus, looking forward as an industry sector to collectively move toward the next step will allow structural engineers to leverage the BIM process in ways that are beneficial both internally, and to the project as a whole. This presentation will offer thought-provoking approaches to BIM within structural engineering workflows, and will open the conversation of what we as an industry sector should do to advance in favorable directions.

### Bio: Desiree Mackey, PE

*Desirée (Dezi) Mackey has been in the architecture, engineering, and construction industry for more than 15 years. Dezi earned her bachelor's and master's degrees from the University of California, Davis, and the Massachusetts Institute of Technology, respectively. She started her career in California with a construction company, she continued with a structural engineering firm, and now she is a practicing structural engineer and Building Information Modeling (BIM) manager at Martin/Martin in Denver, Colorado. Dezi finds the interaction of BIM, technology and structural engineering fascinating and is extremely active in the BIM community. She is a regular speaker at many conferences. She is the co-founder of the Rocky Mountain Building Information Society, the chair of the Structural Engineers Association of Colorado's BIM Committee, a member of the RTC North America Committee, and she has served as board member, treasurer, and vice president for Autodesk User Group International (AUGI).*



**Also participating:** *Jeremy Crandall, PE (Structural Consultants), David Weaver, PE (Mold Tek), Jedidiah Williamson, PE (Martin/Martin), John Brunner, PE (JVA), Neal Bohnen, PE (SA Miro)*

### RSVP MAY 2016 MEETING

May 19, 2016

Breakfast at 7:30 a.m.

**Renaissance Hotel**  
**3801 Quebec Street, Denver, CO 80207**

RSVP by Monday, May 16, on the [SEAC website](#)

# BOARD OF DIRECTORS

Structural Engineers Association of Colorado



**Ben Cook**

President

Wiss, Janney, Elstner  
Associates, Inc.  
303-914-4300  
[bcook@wje.com](mailto:bcook@wje.com)



**Paul Doak**

VP/Treasurer

Martin/Martin, Inc.  
303-431-6100  
[pdoak@martinmartin.com](mailto:pdoak@martinmartin.com)



**Jeannette Torrents**

Secretary

JVA, Incorporated  
303-444-1951  
[jtorrents@jvajva.com](mailto:jtorrents@jvajva.com)



**Don Carroll**

Past President

Wiss, Janney, Elstner  
Associates, Inc.  
561-226-1220  
[DCarroll@wje.com](mailto:DCarroll@wje.com)



**Greg Black**

Director

970-685-4152  
[G2black@comcast.net](mailto:G2black@comcast.net)



**Rob Jackson**

Director

AECOM  
303-843-2755  
[rob.jackson@aecom.com](mailto:rob.jackson@aecom.com)



**Susan Jorgensen**

Director

303-919-9321  
[susiejorg315@comcast.net](mailto:susiejorg315@comcast.net)

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!

# PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

Welcome to Spring! 2016 continues to bring big changes to our organization, so this president's message will be all business, as we Gen-Xer's prefer.

First, our new website is not yet complete, but the board recently had an opportunity to review a beta version provided by our website developer. The new SEAC website will improve functionality for common tasks such as RSVP'ing for events, paying dues and other charges online, and applying for membership with an online form. It will also include many new features, such as a structural engineering blog (very exciting!), links for member websites, links for member project photographs, and SEAC committee pages allowing committee chairs to report current activities to SEAC members.

Second, over the past many years, the roles and responsibilities of board members have grown significantly. To help better serve our members, this year's board is going to try adding bi-monthly meetings via webex to our normal bi-monthly, in-person meeting routine. Hopefully, this will allow the board to provide focus to at least a couple more issues per quarter. Also, the board has officially engaged additional administrative support from Michelle Mishkar, who offices with Caryn Farrell at Martin/Martin's office. Part of her role is to assist the treasurer with account management, which should improve the organizations ability to collect and deposit fees and dues in a timelier manner, not only making the treasurer's life much easier, but also smoothing out some of the issues that have regrettably burdened our members for some time. Michelle is doing a great job with several behind-the-scenes issues, so if you see her, please extend your thanks to her.

Next, the long anticipated *2016 Colorado Design Snow Loads* report is now available for members to download on the existing SEAC website (assuming it is online). I have my copy of the report, and cannot wait to use it. Many-many thanks to the SEAC Snow Load Committee. Great Job!

Finally, mark your calendars because the Structures Congress 2017 will take place April 6-8, 2017 at the Denver Convention Center. The Structures Congress is organized each year by the Structural Engineering Institute of ASCE and has grown to become the industry's premier conference attracting more than 1,200 structural engineers from across the United States and around the world. SEAC has agreed to become a cooperating organization for this event. The call for abstracts is open until June 2, so if you think you have something interesting to present, this would be a great opportunity to present it. The congress website is provided below for further information.

<http://www.structurescongress.org/call-for-proposals/>

Here's to April showers bringing May flowers.

Cheers,



Benton Cook, SEAC President

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



**KL&A, Inc.**  
Structural Engineers and Builders

## **Construction Engineer/Project Estimator**

KL&A, Inc. Structural Engineers and Builders is a nationally recognized, forward thinking structural engineering and steel construction firm with offices in Colorado and Wyoming. We have been recognized five years in a row as one of the top ten structural engineering firms to work for in the U.S., and are known among our clients as creative and actively engaged in the design and building process. We are unique in the country, integrating structural design, steel detailing, fabrication and erection of steel structures for 20 years. Please visit us at [www.klaa.com](http://www.klaa.com) for a sample of our wide range of work and services.

KL&A has a unique opportunity for an experienced structural engineer or construction engineer interested in bridging the design and construction professions. The position will support our construction management functions through pre-construction services, estimating, and assisting construction managers. The work is based in our Loveland, Colorado office, the center of our construction activity. There is room for growth and advancement in a unique, employee owned organization.

**Job Description and General Responsibilities** include but are not limited to:

- Estimating steel projects using Revit, Bluebeam and proprietary Cost Modeler
- Tracking and analyzing project budgets
- Identifying and addressing potential constructability and engineering issues for steel projects
- Collaborating with structural engineers, architects, fabricators, erectors and general contractors
- Establishing and maintaining a steel construction schedule
- Developing and maintaining strong client relationships
- Troubleshooting field and fabrication issues
- Actively participating in a team environment
- Reviewing of Shop Drawings

### **Minimum Skills and Experience:**

- Must be a US citizen or able to work in the US without sponsorship
- Minimum BS in Civil Engineering or Architectural Engineering program
- Minimum 3-4 years' design experience and knowledge of steel structures
- Experience with construction administration
- Experience working and collaborating with architects
- Must be thorough with attention to detail
- Self-starter and active problem solver
- Understand standard commercial building codes
- Revit experience or willingness to learn
- Proficiency with standard office software such as Excel, Bluebeam, Word, etc.

### **Desired Skills and Experience:**

- Experience working as an estimator or project manager on commercial projects
- MS with an emphasis in structures or Construction Management training preferred
- Experience working for a steel fabrication or erection company
- Experience with SDS/2 steel detailing software
- Proficiency with Revit
- Professional Engineer license

Personal attributes of many kinds may be acceptable, but an understanding and dedication to client-centered service is a requirement. KL&A, Inc. is an equal opportunity employer offering competitive wages, excellent health/vision/dental benefits and 401k matching.



# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## **Design / Project Structural Engineer**

Why are you a structural engineer?

I don't know about you, but my decision to become an engineer was not to crunch numbers all day in a cubicle. Nor, to fulfill an architect's "vision" of what the owner may not have requested! My goal was not to increase the profitability of others involved in the project without being compensated. My goal also was not to answer hundreds of RFIs, written by lesser qualified individuals in trailers.

Sound familiar?

Our goals at HES are driven by efforts to improve quality and profitability for our clients and ourselves, solving complicated problems in out of the box fashion, strong knowledge of building code requirements, providing mature project leadership, growing our scope of services, all along with a focus on the big picture: public safety and service to the community, honesty and integrity in all aspects.

Sound good?

We are also striving to achieve an entrepreneurial atmosphere where compensation is truly based on performance and revenues earned, not just billing hours / years' experience.

### **REQUIRED**

- MS in structural engineering
- Successful completion of FE exam, and / or PE
- 2 years minimum structural engineering experience
- Revit experience
- Excellent verbal and written English
- Intelligent professionalism
- Minimum two excellent references

Specific career goals and interests... what do YOU want?

Horne Engineering Solutions, LLC

4605 Quebec Street, Unit B8

Denver, CO 80216

303-377-6963 (O)

[www.HESLLC.com](http://www.HESLLC.com)

Compensation commensurate with skills and experience

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Structural Investigative Engineer

Martin/Martin, Inc. has two openings for creative, experienced structural engineers to join our Existing Building Services group in the Lakewood, Colorado office.

The first position is for an engineer to work on our concrete repair team. The repair projects will focus on the assessment, repair, and maintenance of parking garages and other buildings in need of concrete repairs. The successful candidate will develop expertise in the concrete repair industry, conduct field investigations, design structural repairs, perform compliance site visits during construction, and assist in client relations.

The second engineering position will work on our building envelope team, performing investigations and designing repairs for building façades and waterproofing elements. The successful candidate will develop expertise in the rapidly expanding building envelope market, conduct field investigations/testing, evaluate the structural integrity of assemblies, assist with client relations and have the opportunity to perform rope access work, if desired.

### ***Required Qualifications:***

- 3 to 6 years of progressive structural engineering experience
- Registered Professional Engineer in Colorado or able to obtain within 1 year
- Strong knowledge of building and design codes
- Excellent time-management skills
- Self-motivated and able to work independently for extended periods of time
- Strong work ethic
- Demonstrates strong commitment to continued personal growth and development in all aspects of their work
- Good written and verbal communication skills

### ***Desired Qualifications:***

- Demonstrated ability to design, detail, coordinate, and model projects
- Completed several projects on existing buildings
- Revit literate in producing plan work, details, notes, and general editing
- Master's degree in Civil or Architectural Engineering, with an emphasis on structures

Qualified applicants should apply using [Martin/Martin's online application](#), attaching a cover letter and resume.

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



Farnsworth Group, Inc. is a full-service engineering and architectural firm with offices and employment opportunities located throughout a nationwide network of offices. Farnsworth Group is an employee-owned company with a rich 100-year history that offers an impressive benefits and compensation program, in addition to excellent career development opportunities. We are always looking for exceptional and talented employees who are passionate about their craft and the solutions we provide to our clients. We have the following position available:

## Structural Engineer—Denver, CO

We have an exciting opportunity for a Structural Engineer to join our team in our Denver, CO office. The office is conveniently located in the Denver Tech Center, only 5 minutes walking distance from the light rail, and offers a gorgeous view of the front range of the Rocky Mountains. The structural group in our Denver office is an emerging presence within the Denver and greater Colorado regions and offers great growth potential. This is an opportunity to get in on the ground floor of what is essentially building a structural engineering practice within a well-established firm to provide services to both internal and external clients.

Candidates must have a solid technical background, a strong sense of project ownership/ responsibility, and the ability to thrive in a fast-paced, dynamic team environment. Typical responsibilities include performing structural design calculations, developing construction documents, providing construction administration services, site visits, client meetings and coordination with the project team, and performing other tasks as assigned by the structural engineering manager.

### **Desired Candidate Qualifications:**

- Bachelor's or Master's degree in Civil or Architectural Engineering, with emphasis in structures; Master's degree, preferred
- Licensed Professional Engineer, currently registered or ability to obtain within 1 year, required
- 5-8 years of structural engineering experience
- Diverse project experience with design and construction administration of building structures
- Experience managing projects and maintaining client relationships, preferred
- Excellent interpersonal, written, and verbal communication skills, required
- Revit and/ or AutoCAD experience; fluency in Revit, preferred

### **We offer a competitive salary and benefits program that includes:**

- Medical/Dental/ Vision Plans
- Prescription Drug Program
- 401(k) with Company Match
- Tuition Reimbursement
- Flexible Spending Account
- Time-off Benefits

Please Apply Online by visiting the Farnsworth Group website at [www.f-w.com](http://www.f-w.com) and click on the careers link.

Farnsworth Group, Inc. is proud to be a M/F Disabled and Veteran EEO/AA employer.

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



Founded in 1956, JVA, Inc. is an 90+ person firm with offices in the downtown communities of Boulder, Fort Collins, Winter Park, Glenwood Springs, and Denver, Colorado. We specialize in structural, historic preservation, civil, infrastructure, environmental, and water/wastewater engineering for public and private entities across the state. We are employee-owned, offer a competitive benefits package, advocate professional growth, and have long-standing relationships with contractors, architects, builders groups, professional organizations, and community outreach programs. We also have a strong internal corporate culture with sponsored events and social activities throughout the year.

## Structural Project Manager

JVA has an opening for a Structural Project Manager to join our team in our Fort Collins office. We are seeking a highly motivated person with a passion for engineering excellence. Flexibility and desire to work on multiple projects is essential.

As part of JVA's thriving Structural Engineering team you will work with mindful, experienced engineers who are devoted to sensible and conscientious problem solving for Colorado and the rest of the country's most important built environments. We provide the necessary tools, support, and training to assist our employees in providing technically competent, high quality service to clients. Our professional culture values sound judgment, creative thinking, and design sensitivity.

Our portfolio includes K-12 and higher education facilities, government and municipal buildings, resort facilities, parks, recreation, and camp facilities, healthcare, commercial and industrial buildings, single-family residential, senior and multi-family housing.

### Responsibilities:

- Plan, schedule, and coordinate small to mid-sized projects
- Design and detail structural elements from main building frame to support of architectural features
- Provide construction administration services such as shop drawing review, RFI responses, and site observation.

### Minimum Qualifications:

- 10+ years experience in multiple building types and systems
- Licensed Professional Engineer
- RAM and/or RISA and REVIT

### To Apply:

Send your résumé and cover letter to JVA, Inc. 1319 Spruce St, Boulder, CO 80302 or email [careers@jvajva.com](mailto:careers@jvajva.com).

Please visit our website at [www.jvajva.com](http://www.jvajva.com)



# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Construction Engineering Services Team Opportunity

The Martin/Martin Construction Engineering Services Team has an opportunity for an experienced structural engineer to join, focusing primarily on cold-formed steel construction. Martin/Martin is an industry leader in the design of cold-formed steel and this presents an opportunity to be our in-house champion. Candidates will have the opportunity to manage projects immediately, learn and grow to become a true expert in this field, and help in developing this dynamic and growing sector of our business.

We are currently working on high profile higher ed and cultural projects, a 35-story residential tower, and national projects including two panelized CFS projects in Hawaii. We are also the exclusive North American engineer for a manufacturer of CFS roll-form equipment.

While the intended focus for this position is cold-formed steel, there may be other opportunities within the CES team as well.

### ***Required Qualifications:***

- 4 to 6 years of progressive structural engineering experience
- Registered Professional Engineer in Colorado or able to obtain within 1 year
- Strong knowledge of building and design codes
- Strong background and understanding of computer analysis and design software
- REVIT-literate in producing plan work, details, notes, and general editing
- Excellent time-management skills
- Self motivated and able to work independently for extended periods of time
- Strong work ethic
- Demonstrates strong commitment to continued personal growth and development in all aspects of their work
- Good written and verbal communication skills

### ***Desired Qualifications:***

- Master's degree in Civil or Architectural Engineering, with an emphasis on structures

Qualified applicants should apply using [Martin/Martin's online application](#), attaching a cover letter and resume.

## IS YOUR COMPANY HIRING?

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

To learn more, contact Michelle Mishkar ([SEACNEWS@MartinMartin.com](mailto:SEACNEWS@MartinMartin.com))

# ANNOUNCEMENTS

Structural Engineers Association of Colorado

## Welcome to our Newest Members

**Scott Hargrove** (Professional Member)

CTL|Thompson, Inc.

**Kate Benton** (Affiliate Member)

JVA, Inc.

**Sri Lakshmi “Divya” Dinavahi** (Affiliate Member)

Jirsa Hendrick Structural Engineers

**Ethan Mathern** (Affiliate Member)

Professional Engineering Consultants

**Craig Kobe** (Professional Member)

JVA, Inc.

**Bradley Reints** (Affiliate Member)

Froelich Engineers, Inc.

**Isaac Simmons** (Affiliate Member)

Jirsa Hendrick Structural Engineers

**Jeffrey Schalk** (Professional Member)

JVA Consulting Engineers

**William Scott** (Professional Member)

Peak Engineering, Inc.

**Nathaniel Spangler** (Professional Member)

Thornton Tomasetti

**Kevan Thurman** (Professional Member)

Burns & McDonnell

**Joe Urnise** (Professional Member)

JVA, Inc.

**Sung Cho** (Affiliate Member)

Peak Engineering, Inc.

**Curtis Morse** (Affiliate Member)

Anderson & Hastings Consultants, Inc.

**Ibrahim AbdelMeguid** (Affiliate Member)

Jirsa Hedrick & Associates, Inc.

**Patrick Bair** (Professional Member)

Jirsa Hedrick & Associates, Inc.

**Paul McKinney** (Professional Member)

Allen & Hoshall

**Charlotte Van Voast** (Affiliate Member)

Lopez Smolens Associates

**Vanessa Werbylo** (Affiliate Member)

Jirsa Hedrick & Associates, Inc.

**Luke Cronin** (Affiliate Member)

Thornton Tomasetti

**Adam Moore** (Affiliate Member)

Wiss, Janey, Elstner Associates, Inc.

**Samuel Harris** (Affiliate Member)

Hilti

# ANNOUNCEMENTS

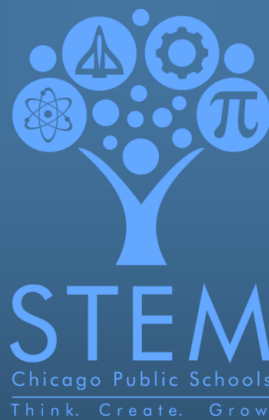
Structural Engineers Association of Colorado

## GIRLS IN STEM

The SEAC Education Committee is looking for companies and volunteers who would be interested to participate in the student outreach opportunities for the “Girls in STEM” program.

***They are currently looking for the following:***

- Speakers to lead an interactive discussion with middle school and/or high school students.
- Engineering companies willing to host a tour with Q&A, rotations with high school students.
- Engineering companies willing to host high school students for job shadowing experiences.
- Engineering companies willing to host high school students for mentoring experiences.



If interested, contact us at [EducationSEAC@gmail.com](mailto:EducationSEAC@gmail.com)

# SPONSOR—THANK YOU!

Structural Engineers Association of Colorado



**PEIKKO USA INC.**

[www.peikkousa.com](http://www.peikkousa.com)

[Peikko Group YouTube Channel](http://www.youtube.com/user/PeikkoGroupCorp) <http://www.youtube.com/user/PeikkoGroupCorp>

**NEW** Exposed Steel Deltabeam - UL Fire Test Video [Click Here](#)

Corporate Video: [Click Here](#)

Latest Corporate Magazine: [Click Here](#)



New issue of Peikko's customer magazine available!

**CONCRETE** 2/2014  
**CONNECTIONS**

[Click to read the magazine or order printed copy](#)

## SPONSORS!

**Your Logo Could Go Here!**

Do you know someone that would be interested in  
sponsoring a SEAC Meeting?

Please contact Don Carroll, Past-President

561-226-1220 - [DCarroll@wje.com](mailto:DCarroll@wje.com)