



# JANUARY GENERAL MEETING

## 2015 Schedule

### Mark Your Calendar

#### General Membership Meetings

Renaissance Hotel

(Breakfast 7:30 a.m.)

January 22 - 4th Thursday

March 19

May 28 - 4th Thursday

(Location TBD)

July 16

September 17

#### Fall Seminar

October 22

Location: Sheraton Denver West

Time: TBD

#### Annual Banquet

Date: TBD

Location: TBD

Time: TBD

#### Board of Directors

Structural Consultants, Inc.

(7:30 a.m.)

January 8

February 5

April 2

June 4

August 6

October 1

#### Business Management

##### Committee

Renaissance Hotel

(Breakfast 7:30 a.m.)

February 12

April 9

June 11

August 13

October 8

## Overview of the ACI 562 Evaluation and Repair Code

This special technical presentation will provide an overview of the new ACI 562 concrete repair code that was first introduced in 2013. Although it has not yet been fully adopted in the IEBC, it is only a matter of time. That time is coming, so take this opportunity to learn what this code means to our industry and how you might start using it today for your concrete repairs!

A recent study shows that on average, only 50% of all concrete repairs are performing satisfactory.

For a \$20 to \$25 billion industry to have only a 30% satisfaction after 10 years is unacceptable. ACI 562 was written to:

1. Improve concrete repair practices
2. Raise the level of repair performance
3. Establish clear responsibilities for contractors, engineers, inspectors etc.
4. Help design professionals and building officials by providing a standard and guidance
5. Provide engineering guidance for evaluation of existing buildings
6. Improve safety and reliability of buildings

Just as IBC & ACI 318 address new construction, IEBC & ACI 562 address existing buildings.

ACI 562 may be used with IEBC or as a stand-alone code.

A performance basis code, ACI 562's decision making process focuses on the requirements of demand needs and building sustainability.

The ACI 562 code goes beyond the IEBC recognizing the need to address deterioration and faulty construction as well as damage and giving engineers information on evaluation and design of repairs.

Gene has over 40 years of experience as a structural engineer and has specialized in the behavior of buildings and evaluation and design of repairs for existing damaged, deteriorated, or distressed structures. With a focus on existing concrete and wood framed buildings, his projects across the country range from single family houses to high-rises and malls. A principal with J. R. Harris & Company, Gene's education, experience and knowledge led to his participation on the American Concrete Institute 562 Committee and in writing the new ACI 562 regulations, "Code Requirements for Evaluation, Repair, and Rehabilitation of Concrete Buildings and Commentary."



### January Meeting

Thursday, January 22, 2015

Renaissance Denver Hotel

(Breakfast at 7:30 a.m.)

3801 Quebec Street, Denver, CO 80207  
(South of the I-70 & Quebec Intersection)

MUST RSVP by **Monday, Jan. 19th** on the SEAC website at:

[www.seacolorado.org](http://www.seacolorado.org)

# BOARD OF DIRECTORS

Structural Engineers Association of Colorado



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**We Want To Hear From YOU!** The SEAC BOD is interested in hearing your suggestions, comments and ideas. Please feel free to contact a member of the Board of Directors at any time.

Thank you to all of our members who continue to support SEAC!

# PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

**W**elcome to 2015! If like so many of us, you closely follow the Chinese calendar, you already know this is the year of the Ram (sounds better than year of the sheep). So kudos to those CSU alumni, this is your year. 2014 found many of our members experiencing a more comfortable year as the economy continues to improve. Keep our heads down and moving forward like the Ram to build on this momentum. Look for ways to grow as both a structural engineer, and a person.

Under **Paul Hause's** leadership SEAC had an excellent year in 2014. The Education Committee put together a successful Fall Seminar on snow loads and fire ratings (thanks to **Natalie Mozer-Renn** who is stepping down from Education Committee Chair after a wildly successful run). The Steel Committee produced an excellent presentation on weld inspection, and we had several other informative breakfast meetings. The Annual Meeting returned to its roots as a decidedly social affair held at the newly refurbished Union Station on a beautiful snowy Saturday evening. The most technical discussion I heard that evening centered on the presence of the mysterious *asbestos wood*, of which our tour guide claimed the old train station benches were made. Paul has left me with some large shoes to fill.

2014 also saw the Strategic Planning Committee wrap up their work, and presented to the Board a Plan for continued growth while maximizing the benefits SEAC can provide to its members. While we on the Board work on beginning to implement this plan, your participation really makes SEAC successful. I encourage any member (professional, affiliate, or student) to join a Committee and get involved. All it takes is an e-mail or a phone call, no invitation is necessary. It is a rewarding experience on many levels, and well worth the effort.

I would like to take this opportunity to thank **Jim Ness** our outgoing Past-President, and Tom Skinner our outgoing Director. Each brought their own unique strengths to the Board and their presence will be missed. After a long and grueling election season, **Paul Doak** was elected SEAC's new Secretary, and **Rob Jackson** as a Director. I welcome them and look forward to not only working with them on the Board, but also the traditional hazing of the new Board members.

Please join us on Thursday morning January 22, 2014 at the Renaissance Hotel for a presentation by **Gene Stevens** on ACI 562, *Code Requirements for Evaluation, Repair, and Rehabilitation of Concrete Buildings*.

Cheers



Don Carroll

SEAC President

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado

## Thornton Tomasetti

### Structural Engineers – Denver

Thornton Tomasetti, Inc., an international leader in building design, is seeking talented structural engineers with 1-6 years of experience for its Denver office.

#### Responsibilities Include

- Perform analysis and design of structural systems for all types of buildings and materials, using appropriate building codes.
- Review shop drawings and perform site visits.
- Create construction documents using Revit.
- Provide direction, coordination, planning, and completion of engineering projects.
- Communicate with clients to understand project requirements.
- Plan and formulate engineering program and organize project staff according to project requirements.
- Manage project design and deliverables as well as other design team members.
- Supervise the work of engineers and modelers, and direct project staff in preparing contract documents such as drawings and specifications.

#### Qualifications

- Degree (Master's preferred) in structural engineering or related field.
- Strong technical skills.
- Working knowledge of current industry software, including SAP2000, ETABS, RAM, Risa3-D, StructurePoint, Software, Revit Structure, AutoCAD, and Microsoft Office.
- Excellent verbal and written communication skills.
- 1-6 years of experience.

We offer an excellent benefits package including medical and dental insurance, a matching 401 (K) plan, and a friendly, collaborative work environment.

Submit your resume to Brittany Vigil at:

[BVigil@ThorntonTomasetti.com](mailto:BVigil@ThorntonTomasetti.com)

For further information regarding this job posting please visit our Career Page at:

<http://www.thorntomasetti.com/careers>

Thornton Tomasetti is an Affirmative Action/Equal Opportunity Employer

## Thornton Tomasetti

### Building Information Modeler – Denver

Thornton Tomasetti, Inc., an international leader in building design, is seeking a talented Building Information Modeler with 2-4 years of experience for its Denver office.

#### Responsibilities Include

- Detailing and modeling of structural steel, cast-in-place and precast concrete superstructures and foundations
- Coordination of design work with in-house staff as well as other design professionals including architects and other engineering disciplines.
- Preparation of Construction Documents

#### Qualifications

- Experience with Autodesk Revit Structure is required.
- Degree or certification in drafting or modeling, or a related field.
- Excellent verbal and written communication skills.
- Engineering education and experiences with 3D AutoCAD and/or structural analysis and design programs is a plus.
- Structural detailing back ground is a plus.

We offer an excellent benefits package including medical and dental insurance, a matching 401 (K) plan, and a friendly, collaborative work environment.

Submit your resume to Brittany Vigil at:

[BVigil@ThorntonTomasetti.com](mailto:BVigil@ThorntonTomasetti.com)

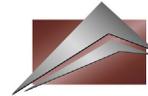
For further information regarding this job posting please visit our Career Page at:

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# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Structural Investigative Engineer

Martin/Martin, Inc.'s Investigative Group has an opening for a creative, experienced structural engineer to join our team in the Lakewood, Colorado office.

We are seeking to add a structural engineer who will work for various project managers on different project types within the investigative team. The successful candidate will have the opportunity to develop a broad range of expertise in many areas of investigative engineering including forensic analysis, historic preservation, non-destructive testing, fall protection, seismic retrofit, repair and remodel work.

### **Desired Qualifications:**

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

### **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
- Strong background and understanding of computer analysis and design software
- 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

Qualified applicants should apply using Martin/Martin's online application, attaching a cover letter and resume.

See our website [www.martinmartin.com](http://www.martinmartin.com)

Peak Engineering, Inc. is seeking structural engineers with 4 to 8 years of experience for our Lakewood, Colorado office. Our project work includes a wide range of commercial building projects in California, Colorado and throughout the U.S. Duties would include structural design in steel, concrete, masonry and wood, specification writing, construction document development 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 a Professional Engineer license and a minimum of four years of relevant experience.
- Experience in Tilt-up concrete design would be preferred.
- Experience with Revit Structure would be a plus.
- The applicant should have excellent written and verbal skills and be an independent self-starter.

See our website at: [www.peakengr.com](http://www.peakengr.com)

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



Carollo Engineers, the country's leading engineering firm dedicated exclusively to water, is seeking a STRUCTURAL ENGINEER to join our Broomfield, Colorado office. As part of our team, you'll be on the leading edge of projects that make a sustainable difference in every day life.

We are looking for a top-tier candidate with demonstrated ability and experience in:

- Structural analysis
- Design and detailing of concrete, steel, masonry, and foundations
- Preparation of construction documents
- Provision of engineering services during construction.

Minimum qualifications include a bachelor's degree in civil/structural engineering, EIT, and 7 to 15 years of work experience. Preferred experience includes a master's degree in structural engineering, PE and/or SE license, and experience with design of water-containment structures.

Apply here on the [Carollo Careers Page](#).

All qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, ethnicity, or status as a protected veteran.

EOE/Minorities/Females/Protected Veterans/Disabled

## **KL&A – Employment Opportunity**

All of KL&A's offices have immediate openings for engineers with 0-10 years of experience. Full-time position applicants for this position **must** have:

A **Masters Degree** from an accredited civil/structural or architectural/structural engineering program Preferred applicants will have:

- A P.E. or S.E. license
- Experience with **Revit Structure** modeling
- Experience in structural design of residential, commercial, industrial, or institutional buildings
- Experience working with architects

Personal attributes of many kinds may be acceptable, but an understanding of and dedication to client-centered service is a requirement.

Applicants for full-time positions should send a cover letter and resume to Greg Kingsley [gkingsley@klaa.com](mailto:gkingsley@klaa.com) and Camie Beagan [cbeagan@klaa.com](mailto:cbeagan@klaa.com).

Please visit [www.klaa.com](http://www.klaa.com) for more information about our firm.

# GENERAL ANNOUNCEMENTS

Structural Engineers Association of Colorado

## SPONSORS

Your Logo Could Go Here

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

Please contact Paul Hause, Past-President  
303-399-5154 - [paul@sci-denver.com](mailto:paul@sci-denver.com)

### 2015 MEMBERSHIP DUES ARE....DUE!

Please log on to the SEAC website to pay your 2015 Membership Dues online. Log on to: [www.seacolorado.org](http://www.seacolorado.org). You can still pay by check. Please see the attached Dues Form if you would like to pay by check.

Deadline to pay your membership dues is Friday, February 6, 2015.

Thank you to all who have already paid.

Please feel free to contact Caryn Farrell if you need help paying online at [seac@martinmartin.com](mailto:seac@martinmartin.com).



# WELCOME

Please Welcome Our New Member

Kirsten Armbruster (Professional Member)  
Square-K Consulting, LLC

# Thank You!

The BOD would like to THANK YOU for your continued support of this great organization. We encourage to get involved with a committee.

# SEAC COMMITTEES... We Need You!

Structural Engineers Association of Colorado

Have you considered joining a committee? Your participation is what makes our organization so successful. If you are interested in joining, please click on the one of the links below to get in touch with a Committee Chairperson, or feel free to contact one of the Board of Directors.



## STRUCTURAL ENGINEERS ASSOCIATION OF COLORADO

### COMMITTEE CONTACT LIST

	Committee	Chair	Phone	Chair Email	Board Liaison	Liaison Email
1	Construction Industry	Mark Cormier	303-444-1951	<a href="mailto:mcormier@ivajva.com">mcormier@ivajva.com</a>	Jim Ness	<a href="mailto:jness@monroe-newell.com">jness@monroe-newell.com</a>
2	BIM	Dezi Mackey	303-431-6100	<a href="mailto:dmackey@martinmartin.com">dmackey@martinmartin.com</a>	Don Carroll	<a href="mailto:don.carroll@jrharrisandco.com">don.carroll@jrharrisandco.com</a>
3	Building Dept. Survey	DORMANT	303-447-2813		Bob Patillo	<a href="mailto:bob@paengineers.com">bob@paengineers.com</a>
4	Business Management	Wayne Muir	303-399-5154	<a href="mailto:wayne@sci-denver.com">wayne@sci-denver.com</a>	Paul Hause	<a href="mailto:paul@sci-denver.com">paul@sci-denver.com</a>
5	Denver Building Dept.	Jerry Maly	303-914-4300	<a href="mailto:jmaly@wje.com">jmaly@wje.com</a>	Paul Hause	<a href="mailto:paul@sci-denver.com">paul@sci-denver.com</a>
6	Education	Natalie Mozer-Renn	303-870-5039	<a href="mailto:mozerrenn@comcast.net">mozerrenn@comcast.net</a>	Jim Ness	<a href="mailto:jness@monroe-newell.com">jness@monroe-newell.com</a>
7	Ethics	DORMANT			Bob Patillo	<a href="mailto:bob@paengineers.com">bob@paengineers.com</a>
8	Geotechnical	John Reins	720-962-8688	<a href="mailto:jreins@wje.com">jreins@wje.com</a>	Don Carroll	<a href="mailto:don.carroll@jrharrisandco.com">don.carroll@jrharrisandco.com</a>
9	Legislative	Andrew Kelsey	303-499-3022	<a href="mailto:a.kelsey@ascentgrp.com">a.kelsey@ascentgrp.com</a>	Susan Jorgenson	<a href="mailto:SusieJorg315@comcast.net">SusieJorg315@comcast.net</a>
10	Membership	Jerry Maly	303-914-4300	<a href="mailto:jmaly@wje.com">jmaly@wje.com</a>	Ben Cook	<a href="mailto:BCook@wje.com">BCook@wje.com</a>
11	NCSEA Liaison	Brent Norris	303-860-9021	<a href="mailto:brent.norris@jrharrisandco.com">brent.norris@jrharrisandco.com</a>	Susan Jorgenson	<a href="mailto:SusieJorg315@comcast.net">SusieJorg315@comcast.net</a>
12	Nominating	Jerry Maly	303-914-4300	<a href="mailto:jmaly@wje.com">jmaly@wje.com</a>	Paul Hause	<a href="mailto:paul@sci-denver.com">paul@sci-denver.com</a>
13	Northern Colorado	Cody Geisendorfer	970-416-7891	<a href="mailto:codyag@live.com">codyag@live.com</a>	Bob Patillo	<a href="mailto:bob@paengineers.com">bob@paengineers.com</a>
14	Precast Concrete	Alex Mihaylov	303-298-1900	<a href="mailto:amihaylov@enconunited.com">amihaylov@enconunited.com</a>	Tom Skinner	<a href="mailto:tskinner@ivajva.com">tskinner@ivajva.com</a>
15	SEER	Brent Norris	303-860-9021	<a href="mailto:brent.norris@jrharrisandco.com">brent.norris@jrharrisandco.com</a>	Don Carroll	<a href="mailto:don.carroll@jrharrisandco.com">don.carroll@jrharrisandco.com</a>
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18	Seismic Standards	DORMANT			Ben Cook	<a href="mailto:BCook@wje.com">BCook@wje.com</a>
19	Snow Loads	Jeanette Torrents	303-444-1951	<a href="mailto:itorrents@ivajva.com">itorrents@ivajva.com</a>	Bob Patillo	<a href="mailto:bob@paengineers.com">bob@paengineers.com</a>
20	Standard of Practice	Jim Ness	303-623-4927	<a href="mailto:jness@monroe-newell.com">jness@monroe-newell.com</a>	Jim Ness	<a href="mailto:jness@monroe-newell.com">jness@monroe-newell.com</a>
21	Steel Materials	Bruce Wolfe	303-399-5154	<a href="mailto:bruce@sci-denver.com">bruce@sci-denver.com</a>	Tom Skinner	<a href="mailto:tskinner@ivajva.com">tskinner@ivajva.com</a>
22	Web Site	David Poe	303-783-4797	<a href="mailto:david@anchoreng.com">david@anchoreng.com</a>	Susan Jorgenson	<a href="mailto:SusieJorg315@comcast.net">SusieJorg315@comcast.net</a>
23	Western Slope (Proposed)				Bob Patillo	<a href="mailto:bob@paengineers.com">bob@paengineers.com</a>
24	Wind Loads	Jeanette Torrents	303-444-1951	<a href="mailto:itorrents@ivajva.com">itorrents@ivajva.com</a>	Tom Skinner	<a href="mailto:tskinner@ivajva.com">tskinner@ivajva.com</a>
25	Young Engineers	Mathew Peterson	303-726-2909	<a href="mailto:peterson.matt.s@gmail.com">peterson.matt.s@gmail.com</a> <a href="mailto:veg.seac@gmail.com">veg.seac@gmail.com</a>	Paul Hause	<a href="mailto:paul@sci-denver.com">paul@sci-denver.com</a>