



STRUCTURAL ENGINEERS OF COLORADO

NEWSLETTER

MARCH GENERAL MEETING

2013 Schedule

Mark Your Calendar

General Membership Meetings

Renaissance Hotel

(Breakfast 7:30 a.m.)

January 17

March 21

May 16

July 18

September 19

Fall Seminar

October 17

Location: TBD

Time: TBD

Annual Banquet

November 14

Location: TBD

Time: TBD

Board of Directors

Monroe & Newell Engineers

(7:30 a.m.)

January 3

February 7

April 4

June 6

August 1

October 3

Business Management Committee -

Renaissance Hotel

(Breakfast 7:30 a.m.)

February 14

April 11

June 13

August 8

October 10

The National Design Specification for Wood Construction (NDS)

The National Design Specification for Wood Construction (NDS), also known amongst structural engineers as the timber code, was originally titled the National Design Specification for Stress-Grade Lumber and was first issued in 1944. The most recent versions of the NDS include the 1991, 1997, 2001, 2005, and now the 2012 editions. The NDS provides guidance regarding general requirements for structural design, lumber design values, mechanical connections, shear walls/diaphragms, sawn lumber, glulams, and composite lumber.

Several changes, including the introduction of LRFD standards, are detailed in the recent editions of the NDS. The recent release of the 2012 NDS, the 2012 International Building Code, the 2010 Minimum Design Loads for Buildings and Other Structures - ASCE-7, the 2008 Special Design Provisions for Wind and Seismic, and the 2012 Wood Frame Construction Manual has introduced timber design concepts and rules that may conflict with previous versions of the building codes.

Mr. Marxhausen's presentation will include two valuable lists for structural engineers. The first list will include items Colorado structural engineers should be aware of regarding changes in the 2012 NDS. The second list will include pointers to interface the 2012 NDS with the 2012 IBC and other codes as well as a check that your timber design general notes are current.



Peter Marxhausen, M.S., P.E., is a licensed Professional Engineer in eight states. In addition to being a senior staff structural engineer with Higgins & Associates, Inc, he is an adjunct faculty member with the University of Colorado Denver where he teaches in the Civil Engineering Department. The courses taught by Mr. Marxhausen include Timber Design and Senior Design. Mr. Marxhausen will provide a presentation regarding significant changes included in the 2012 National Design Specification (NDS), a baseline for issues structural engineers in Colorado should have in their timber general notes, and current timber design parameters.



RSVP at www.seacolorado.org by March 18th or by e-mailing Caryn Farrell at seac@martinmartin.com.
See Page 3 for Location and Time.

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Structural Engineers Association of Colorado



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tskinner@jvajva.com



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970-945-9695
bob@paengineers.com

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

New Engineers in the office! I am hearing that many firms, as well as my own, have new employees! Whenever we hire new engineers, it always takes me back to my first job! That first job, where you may not have known much about real design work, much less how a project actually goes together! How do you take all that you've learned in school and apply it to the project that your boss just gave you? How do you take parts and pieces from multiple textbooks and apply them to actual designs (with answers in the back of the book!). Then there is the hard stuff ... where do I park? Who makes the coffee? When do I get paid? What do I do about the pencil-tapper guy in the cubicle next to me? Oh, to be a young engineer again! That is one reason we are trying to develop a Young Members Committee. Several of you have indicated that you are interested in setting up the committee. Unfortunately we have been slow at getting it going. We will be getting things ready soon. As I say, my "day job" has been keeping me and the BOD busy! I hope that the "older, experienced" engineers are doing their best to provide an environment where the young engineers can learn, work hard, try it on their own, ask questions, watch and listen, make mistakes and learn from them, and GROW as engineers (and as people)! When I coach my youth basketball teams, we always talk about the "life lessons" that are being taught besides learning basketball! Our offices can do that too for the young engineers (as well as for the older engineers)! And as always, remember that CHANGE is difficult for most people ... be patient with the new folks and with the old folks that may be learning something too!

As part of the Newsletter, the proposed 2013 Annual Budget is included. It shows the proposed budget along with budgets from prior years and the actual expenses. Please review the proposed budget and send me any questions you might have. We will be voting on it (or a revised budget) at the March General Meeting. A quick note about the Scholarship Fund Donation. The proposed budget has a line item of \$1,000 for the year. The Scholarship Fund monies that were set aside last year still need to be paid to the fund, but our feeling was those extra funds should not be listed in the Annual Budget. Send any questions to my email: jness@monroe-newell.com. I also want to say thanks to all of you who have paid your

annual SEAC dues on time! That saves our Administrative Director, Caryn Farrell, a bunch of time when she doesn't have to do collections work. AND, thank you for your patience and diligence when it comes to paying your dues on the website. Our website company and Caryn have been working through the many glitches and hopefully will have them all solved and corrected in the very near future. Thanks goes out to the CAGE organization for the successful joint meeting in January. Hopefully you had a chance to learn about testing of foundations and maybe even talk with one of the CAGE members at your table. I am still hoping to broadcast the March meeting via a web broadcasting service. We may run out of time for March, but will have it ready for the May meeting!

Lastly, do remember to consider joining one of the many SEAC Committees. The Snow Load and Wind Committees are both looking for members for some upcoming work. In addition, the Business Management Committee is looking to strategize about the future of our organization! With all the other changes going on around us, SEAC needs to do what it can to remain vital and energetic!

Jim Ness, P.E.
SEAC President



Don't Miss Out **March General Meeting**

Thursday, March 21, 2012
(Breakfast at 7:30 a.m.)

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

MUST RSVP by Monday, March 18th on the SEAC website at:

www.seacolorado.org or e-mail Caryn Farrell at: seac@martinmartin.com

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Structural Engineers Association of Colorado

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Sapphire Supply™ PC based software designed for EWP, lumber design and whole-house estimating.

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GENERAL ANNOUNCEMENTS

Structural Engineers Association of Colorado

2013 MEMBERSHIP DUES ARE....DUE!

The deadline to pay your 2013 membership dues has expired.

Please feel to contact Caryn Farrell if you need help with paying online at seac@martinmartin.com

Thank you to all who paid your dues on time.

MEMBERSHIP ROSTER - 2013

The 2013 SEAC Membership Roster will be placed on our website by the end of March. Watch for upcoming details.

If you have a change in your membership information, please e-mail Caryn Farrell at seac@martinmartin.com



WELCOME

Please Welcome Our New Members

Adam Boswell (Professional Member)
Martin/Martin, Inc.

Christopher Carter (Professional Member)
Engineering, Friend, Inc.

Ryan Nelson (Professional Member)
The Leffler Group

Brandon Parker (Affiliate Member)
JVA, Inc.

Joshua Rein (Affiliate Member)
TAKRAF USA, Inc.

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



KL&A Inc, Structural Engineers and Builders is seeking to fill full-time positions in 2 of our Colorado offices: Golden, and Roaring Fork Valley, as well as one in our Buffalo, Wyoming office. We are looking for structural engineers with 0-5 years experience. Work will include design of building structures of all kinds. Experience with Revit Structure will be particularly valued.

KL&A is an outstanding place to work, having been recognized as one of the top ten structural engineering firms to work for in the country six year in a row. We have an extraordinarily diverse book of work, ranging from high end custom homes to high rise buildings, performing arts centers, health care, and academic buildings. We are dedicated to quality and professional development, and have excellent benefits. Our training and mentoring program has been nationally recognized.

KL&A is unique in its ability to deliver both design and construction services as an integrated product. Whether we are in a traditional sub-consultant role or integrating design and construction services, our attention to quality, value, communication, and reliability remain paramount.

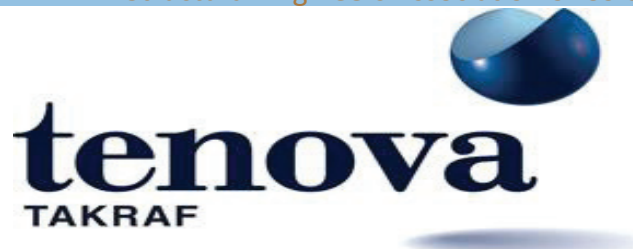
Full-time position applicants for this position must have:

- 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

If interested, please send cover letter and resume to Dr. Greg Kingsley at gkingsley@klaa.com.



TAKRAF USA a division of Tenova Mining & Minerals USA, Inc. develops, designs, and supplies some of the largest and most impressive machines (Crushers, Conveyors, Stackers, Reclaimers) in the world, including complete bulk material handling systems for mining operations and other applications, handling overburden, coal, ore and other minerals. Each project requires creative structural engineering solutions. To learn more about Tenova TAKRAF and its worldwide capabilities visit our website at www.takraf.com.

We seek a **SENIOR STRUCTURAL ENGINEER** to perform structural engineering analysis and design of bulk material handling systems, and oversee others in the same. Responsibilities include technical leadership and guidance to other staff, review of work responsibilities and manpower requirements for projects, preparation of design criteria and loads, and oversight of structural analysis and design, detailing, and drawings for projects. Requirements include a BS in Civil/Structural (MS in Structural preferred), minimum of 8 years of experience in structural engineering (industrial or large structural steel experience preferred).

Submit resumes to Human Resources at takrafjobs@gmail.com with a current resume and cover letter.

EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado

Robson Forensic, Inc. Robson Forensic, Inc.

Civil Engineer – Heavy Construction

Robson Forensic is a forensic engineering firm with offices throughout the U.S.

We seek a Civil Engineer to provide investigation, analysis, reports and testimony where technical and scientific answers are needed to help resolve litigation and insurance claims. Expertise should include: broad structural and vertical construction experience required, horizontal a plus. Experience in construction management, maintenance, and structural design in residential, industrial, institutional or commercial structures, EIFS, and building envelope preferred. Degree required, PE strongly preferred. This position is available on a contract basis in Denver.

E-mail your resume and a cover letter to jobs@robsonforensic.com.

Senior Mining Engineer

We seek a Senior Mining Engineer to provide investigation, analysis, reports and testimony where technical and scientific answers are needed to help resolve litigation, and insurance claims. Areas of potential litigation involve mine design and construction, mining operations, equipment, blasting, safety practices, environmental pollution and remediation, and transportation. Typical cases include mine collapse, mine explosions, equipment operator error, right-of-ways, and quarry access. Degree required, PE highly preferred. This position is available in Denver on a contract basis.

E-mail your cover letter and resume to jobs@robsonforensic.com.

Senior Petroleum Engineer

We seek a Senior Petroleum Engineer will provide investigation, analysis, reports and testimony where technical and scientific answers are needed to help resolve litigation and insurance claims. Areas of potential litigation involve horizontal drilling, hydraulic fracturing, drilling operations, equipment, safety practices, and environmental pollution and remediation. This position is available in Denver on a contract basis. Degree is required, PE is highly preferred.

E-mail your cover letter and resume to jobs@robsonforensic.com.

Classified Ad Policy

To place an ad please contact
Caryn Farrell at:
seac@martinmartin.com

Ads will be placed on the SEAC
Website and newsletter.
Employment Ads must be kept
to 100 (maximum).

The cost is \$100.00.

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.

	<u>Committee</u>	<u>Chair</u>	<u>Phone</u>	<u>Chair Email</u>	<u>Board Liaison</u>	<u>Liaison Email</u>
1	Architectural	Mark Cormier	(303) 444-1951	mcormier@jvaiva.com	Jim Ness	jness@monroe-newell.com
2	BIM	Dezi Mackey	303-431-6100	dmackey@martinmartin.com	Stan Welton	SWelton@ThorntonTomasetti.com
3	Building Dept. Survey	DORMANT	303-447-2813		Tom Skinner	tskinner@jvaiva.com
4	Business Management	Wayne Muir	303-399-5154	wayne@sci-denver.com	David Poe	david@anchoreng.com
5	Denver Building Dept.	Jerry Maly	(303) 914-4300	jmaly@wje.com	Paul Hause	paul@sci-denver.com
6	Education	Natalie Mozer-Renn	(303) 870-5039	mozerrenn@comcast.net	Jim Ness	jness@monroe-newell.com
7	Ethics	DORMANT			Bob Patillo	bob@paengineers.com
8	Geotechnical	John Reins	720-962-8688	jreins@wje.com	Don Carroll	don.carroll@jrharrisandco.com
9	Legislative	Andrew Kelsey	(303) 499-3022	a.kelsey@ascentgrp.com	David Poe	david@anchoreng.com
10	Membership	Jerry Maly	(303) 914-4300	jmaly@wje.com	David Poe	david@anchoreng.com
11	NCSEA Liaison	Brent Norris	303-860-9021	brent.norris@jrharrisandco.com	Jim Ness	jness@monroe-newell.com
12	Nominating	Jerry Maly	(303) 914-4300	jmaly@wje.com	Paul Hause	paul@sci-denver.com
	Northern Colorado (Proposed)	Cody Geisendorfer	(970) 416-7891	codyag@live.com	Tom Skinner	tskinner@jvaiva.com
13	Precast Concrete	J. D Schafer	(303) 777-0977	jdschafer@stresscon.com	Tom Skinner	tskinner@jvaiva.com
14	SEER	Brent Norris	(303) 860-9021	brent.norris@jrharrisandco.com	Don Carroll	don.carroll@jrharrisandco.com
15		Mike Piper	303-431-6100	mpiper@martinmartin.com		
16	Scholarship	Stan Neujahr	(303) 377-2732	stanneujahr@neujahrgorman.com	Tom Skinner	tskinner@jvaiva.com
17	Seismic Standards	DORMANT			David Poe	david@anchoreng.com
18	Snow Loads	Jeanette Torrents	303-444-1951	jtorrents@jvaiva.com	Tom Skinner	tskinner@jvaiva.com
19	Standard of Practice	Jim Ness	(303) 623-4927	jness@monroe-newell.com	Jim Ness	jness@monroe-newell.com
20	Steel Materials	Bruce Wolfe	303-399-5154	bruce@sci-denver.com	Tom Skinner	tskinner@jvaiva.com
21	Web Site	David Poe	(303) 783-4797	david@anchoreng.com	David Poe	david@anchoreng.com
22	Western Slope (Proposed)				Bob Patillo	bob@paengineers.com
23	Wind Loads	Jeanette Torrents	303-444-1951	jtorrents@jvaiva.com	Tom Skinner	tskinner@jvaiva.com
24	Young Engineers (Proposed)				Paul Hause	paul@sci-denver.com



SEAC 2013 Proposed Budget and Year over Year Comparison - 3/3/13

	2013 Budget	2012 Actual	2012 Budget	2011 Actual	2011 Budget	2010 Actual
Income						
Dues - Membership Dues						
Affiliate Members	5,420.00	1,380.00	5,420.00	5,420.00	5,300.00	4,260.00
Business Mgmt.	1,000.00	900.00	1,200.00	1,000.00	720.00	760.00
Professional Members	30,000.00	32,470.00	28,800.00	28,842.96	27,160.00	24,560.00
Student Members	120.00	300.00	180.00	0.00	240.00	225.00
Total Dues - Membership Dues	36,540.00	35,050.00	35,600.00	35,262.96	33,420.00	29,805.00
Annual Dinner Sponsor	1,000.00	1,000.00	1,000.00	1,000.00	0.00	0.00
Employment Advertisement	1,000.00	1,050.00	100.00	300.00	0.00	0.00
Fall Seminar	8,000.00	8,462.81	8,000.00	20,584.52	7,500.00	7,550.00
Fall Seminar Sponsor	2,000.00	2,000.00	3,000.00	3,500.00	3,000.00	3,000.00
Fees - Annual Meeting	3,000.00	1,320.00	3,000.00	2,907.18	2,000.00	1,500.00
Fees - Breakfast Guests	550.00	741.07	550.00	564.74	500.00	580.00
Interest Income	50.00	0.00	50.00	64.08	50.00	58.22
Miscellaneous Income	25.00	63.94	0.00	1.34	0.00	85.00
Sales - Breakfast Sponsors	4,000.00	3,000.00	4,000.00	4,000.00	5,000.00	4,420.00
Sales - Building Dept Survey	0.00	0.00	100.00	154.75	100.00	215.00
Sales - Snow Load Report	300.00	245.00	500.00	1,362.92	500.00	673.00
Sales - Std. of Practice	100.00	0.00	150.00	168.42	150.00	245.00
Total Income	56,565.00	52,932.82	56,050.00	69,870.91	52,220.00	48,131.22
Expense						
Accountant	1,200.00	0.00	1,170.00	1,170.00	1,170.00	1,170.00
Awards	500.00	0.00	500.00	499.85	650.00	462.76
Bank Charges	100.00	26.95	0.00	0.00	0.00	0.00
Committee Expenses	4,000.00	2,656.82	500.00	0.00	500.00	408.75
Contract Labor	9,900.00	9,900.00	9,900.00	9,900.00	9,900.00	9,000.00
Conventions	3,200.00	2,449.83	3,200.00	3,074.02	3,200.00	3,652.33
Meetings - Annual Lunch	3,500.00	3,061.26	3,500.00	3,425.47	4,000.00	3,406.36
Meetings - Business Practice	1,300.00	1,437.14	1,300.00	1,049.66	1,300.00	1,570.83
Meetings - Fall Conference	6,000.00	6,108.45	10,000.00	14,244.65	5,000.00	1,574.00
Meetings - General Membership	14,000.00	11,952.99	12,000.00	11,226.25	16,000.00	15,547.30
Messenger Services	50.00	0.00	50.00	0.00	50.00	12.32
Miscellaneous	600.00	210.66	600.00	77.00	600.00	354.95
NCSEA Committees	600.00	0.00	600.00	0.00	600.00	0.00
NCSEA Dues	4,600.00	4,460.00	4,600.00	4,520.00	4,500.00	4,240.00
Office Supplies	200.00	133.13	200.00	62.26	200.00	189.39
Postage	100.00	109.82	100.00	111.47	100.00	57.38
Print/Postage New Mmbr. Binders	300.00	300.00	300.00	300.00	300.00	0.00
Printing - Snowload	0.00					
Scholarship Fund Donation	1,000.00	1,000.00	1,000.00			
Survey - Business Practice	900.00	500.00	900.00	900.00	900.00	900.00
Web Site	4,000.00	6,997.50	4,000.00	3,793.75	3,000.00	1,892.00
Total Expense	56,050.00	51,304.55	54,420.00	54,354.38	51,970.00	44,438.37
Net Income	515.00	1,628.27	1,630.00	15,516.53	250.00	3,692.85