



SEAC

GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

JULY GENERAL MEETING

Design and Construction of Temporary Earth-Retaining Structures

Schedule

Mark Your Calendar
(2009)

General Membership Meetings

(Breakfast 7:30 a.m.)
January 15
March 19
May 21
July 16
September 17

Business Practice Committee Meetings

(Breakfast 7:30 a.m.)
February 12
April 9
June 11
August 13
October 8

SEAC Board of Directors Meetings

(7:30 a.m.)
January 8
February 5
April 1
June 4
August 6
October 1

Fall Seminar
October 28

Annual Dinner Banquet
November 12
6 - 9 p.m.

The presentation will cover the various earth support systems available, references and/or resources, design, and business practices related to temporary structures.

Types of earth support systems will include soldier pile and lagging using internal bracing with an emphasis on tiebacks, soil nail walls and shotcrete.

Related topics will include soil classification, soil properties, lateral earth pressures, surcharge loads, and settlement and monitoring of structure movement.

Mr. Muller has over thirty years experience in the design and construction of temporary and permanent structures for support of excavation (SOE) and underpinning of structures. Mr. Muller is a registered engineer in nine (9) states and Puerto Rico and is the Chief Engineer for Yenter Companies, a geotechnical design-build contractor.



Don't Miss Out - JULY General Meeting

Date: Thurs. July 16, 2009
Speaker(s): Mr. Mick Muller
Location: Renaissance Denver Hotel
3801 Quebec Street
(South of the I-70 Quebec Intersection)

Please e-mail your reservation to Caryn at: seac@martinmartin.com.
Reservations MUST be made By **Friday, July 10, 2009**

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Information for inclusion in the newsletter must be received one month prior to the next general meeting.

Caryn L. Bauer
SEAC Executive Assistant
seac@martinmartin.com

President's Message

In the May newsletter, I introduced to you the proposal for SEAC to adopt the NCSEA Model Code of Ethics as a Policy Statement. The six page document was printed in the May newsletter, and I presented a summary of it at the May General Meeting. We plan to have a vote on the adoption of this at our July General Meeting. Please contact myself or a Board member if you have any questions or concerns. We will have a discussion period prior to the vote at the meeting.

I am happy to report that we have selected a website consultant to redesign our SEAC website! **John Malcolm** and 2 - 3 others will initiate meetings for the planning of this website and coordination with our consultant. If you have an interest in helping with this short-term effort to get the new website going, or a longer term interest in keeping it updated, please contact John.

Speaking of websites, the **NCSEA website** is a huge source of information that many of you may not be aware of. Continuing Education is a big focus with information related to conferences, publications and webinars. The annual conference and meeting will be held in Scottsdale, AZ this October, and the Winter Institute will take place in San Diego - sounds like two great vacations! In addition, you can view the PowerPoint presentation slides from previous conferences - free!

NCSEA also offers webinars. For example, on July 28, 2009, there is a 90 minute webinar for Connection Design. At \$250.00, these can be to expensive for a small firm or sole practitioner; however, if multiple firms shared the cost, it might be worthwhile. I have wondered whether our members would be interested in pooling

resources to arrange a webinar and whether SEAC should help coordinate this. Please let me know if you have an interest in this or ideas for how to initiate it.

DVD's for past webinar's can also be purchased for \$250.00. Besides webinars, there are publications available. All of the continuing education programs are approved through the "Diamond Review" program, which means that any states requiring continuing education will accept these programs, including Florida and New York, which are known to be especially strict.

Check out the Committee descriptions as well. If you would like to get involved at the national level, **Ben Nelson** (Martin/Martin, Inc.) is a good resource. Ben is not only the SEAC Representative to NCSEA, but he is on their Board of Directors as well.

Meanwhile, there are plenty of activities here in Colorado! Check out the Steel Liaison Committee Report this month with an advance look at their September presentation and the Education Committee's notice for our Fall Conference.

It is halfway through the year already! If we continue in the second half in a similar manner to the first half, we should end with record attendance and level of activities.

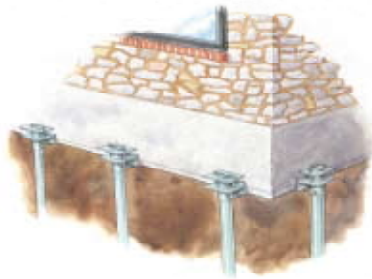
See you at the July meeting!

GENERAL NOTES - ANNOUNCEMENTS

JULY GENERAL MEETING SPONSOR

Complete Basement[®]
"The Dry Basement People" **Systems**

CleanSpace[™]
Crawl Space Encapsulation
System



Thank You!

MAY-GENERAL MEETING SPONSOR

HILTI

Hilti is a world-leading manufacturer and supplier of quality, innovative and specialized tools and fastening systems for the professional user. With more than 1,600 highly trained Hilti account managers and engineers throughout North America and an additional 1,300 Hilti employees nationwide, Hilti expertise covers the areas of powder actuated fastening, drilling and demolition, diamond coring and cutting, measuring, firestopping, screw fastening, adhesive and mechanical anchoring, and strut and hanger systems.

MAY MEETING PHOTOGRAPH



Eric Seelig, Three Elements Timberworks, Inc.
May Speaker

Important

If you have a change of address, phone, fax, or e-mail. Please email Caryn Bauer at seac@martinmartin.com

GENERAL NOTES - ANNOUNCEMENTS



NOTICE TO MEMBERSHIP GENERAL MEETING VOTE

AT THE JULY 16, 2009 GENERAL MEETING, WE WILL VOTE ON THE ADOPTION OF THE NCSEA MODEL CODE OF ETHICS AS A POLICY STATEMENT. OUR BYLAWS REQUIRE A MAJORITY OF VOTING MEMBERS AT A GENERAL MEETING TO APPROVE A POLICY STATEMENT. PLEASE REFER TO THE MAY NEWSLETTER OR THE NCSEA WEBSITE FOR A COPY OF THE CODE OF ETHICS. THERE WILL ALSO BE COPIES AVAILABLE AT THE MEETING.

FUTURE MEETING TOPICS

The Board of Directors would like to invite the membership to make suggestions for possible future meeting speakers and topics. Please send any ideas to: rhedrick@jirshedrick.com

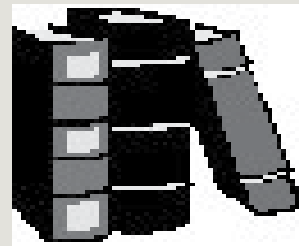


In The Spotlight

Please WELCOME our newest member to SEAC!!

Daniel F. Wilkins (Professional Member)
Wilkins Engineering, LLC

PUBLICATIONS



FOR SALE

2007 COLORADO GROUND SNOW LOAD REPORT & MAP
Price: \$75 (members)

A GUIDE FOR CONSULTING STRUCTURAL ENGINEERING SERVICES: A RECOMMENDED STANDARD OF PRACTICE
Price: \$25 (members) and \$50 (non-members)

2006 SURVEY OF COLORADO BUILDING DEPARTMENTS
UNIT PRICE: \$50.00
CD: \$100.00

Contact Caryn Bauer at:
seac@martinmartin.com for order form.

SEAC Steel Liaison Committee

Our committee has been meeting monthly since last October when the topic was selected from a working list of issues of interest to the steel and structural engineering community. The result will be a white paper and a presentation at the September General Meeting, which will include an invitation to the RMSCA members.

Our topic is - **Complex Sloping Steel Roof Issues**

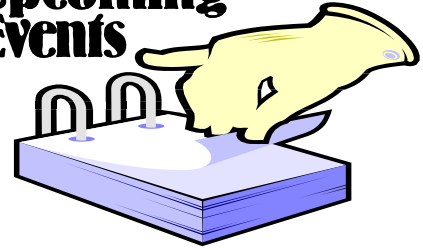
Steel roof framing construction becomes exponentially complex as slopes continue to increase beyond ¼" per foot. Mountain projects almost always fall into this type of construction. Non-repetitive framing, vaulted framing, connections and deck support must be clearly defined in the documents for the construction team since these issues are almost always atypical. Often the General Contractor, Detailer, Fabricator and Erector are faced with incomplete Design Documents and left to guessing about the design intent. This paper and presentation will address important considerations for inclusion in the Design Documents for complex sloped steel roof construction. Some areas we will consider are:

1. Top of Steel (underside of deck?), specified roof slope conflicts, work points & dimensioning of Design Drawings
2. What details are necessary? Conflicts between drawings and sections
3. Required deck supports and placement of the supporting structure beneath
4. Open web joist issues
5. Connections
6. Snow fence & safety tie-off considerations
7. Specification & Design Drawing conflicts
8. Pre-detailing and Pre-construction Meetings

The paper was prepared by the SEAC Steel Liaison Committee, a coalition of Front Range Fabricators, Detailers, Erectors and Structural Engineers dedicated to improving the steel construction industry. We have been meeting monthly for the last few years. Past topics have included (1) providing input for the 2005 revision to the AISC Code of Standard Practice, (2) Considerations for steel framed floors, (3) Suggestions for improving the structural steel shop drawing process, (4) Steel building exterior wall interface issues, (5) AESS issues, (6) Pre-detailing meeting agenda, and (7) Checklist for structural drawings.

Bruce R. Wolfe, P.E., Chairman

Upcoming Events



FALL CONFERENCE

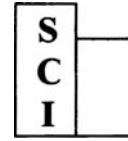
Please set aside October 28, 2009 for SEAC's annual fall conference. This year's conference will be a half day event intended for the education of young engineers and refreshing the perspectives of engineers of all levels of experience. The conference will feature three panels. Each of these panels are intended to give a different perspective to the use of construction documents and the standards that SEAC has set for the standard of practice. The three panels will consist of:

1. Contractor Panel: The intent of this discussion will be to receive input from those using our documents and input on a "Top Ten List" of items that seem to repetitively be the cause of RFIs, and potential solutions to avoid them. The discussion will also address the often confusing roles of Contractor's engineers versus Engineer-of-Record for the building as it relates to subcontractor - engineered elements.
2. Plan Checkers Panel: Representatives from City Building Departments and independent checkers will review the process that plans examiners use in permit reviews and discuss a "Top Ten List" of items that are the most common cause of plan check comments.
3. SEAC Panel on the adopted "Guide for Consulting Structural Engineering Services in Colorado, A Recommended Standard of Practice": This panel will discuss the issues raised in the first two panels with respect to SEAC's Standard of Practice document. This will be an open forum discussion to assist engineers in their preparation of construction documents and to provide insight into the balance of client, contractor and code requirements vs. the SEAC Recommended Standard of Practice.

September 30th: Denver, CO

Frequently Misunderstood IBC/ASCE 7-05 Structural Provisions

One-Day Seminar



Don't Miss Out! Reserve Your Spot While Available!

Structures and Codes Institute (a continuing education subsidiary of S.K. Ghosh Associates Inc.), in cooperation with the Structural Engineers Association of Colorado will present this one-day seminar in **Denver, CO** on **September 30, 2009**.

The seminar will address the top 10 misunderstood structural provisions in ASCE 7-05 and related IBC structural provisions. The following ten topics will be discussed, including a presentation of answers to questions that we have received on the application of related provisions:

1. Redundancy Factor
2. Drift Determination and Building Separation
3. Minimum Seismic Design Base Shear
4. Live Load Reduction
5. Seismic Analysis Procedure Selection
6. Enclosure Classification for Wind Design
7. Special Seismic Load Combinations
8. R , C_d and Ω_o Values for Horizontal and Vertical Combinations
9. Seismic and Wind Design of Parapets
10. Torsion, Torsional Irregularity and Direction of Seismic Loading.

The seminar will be presented by the following speakers who have been involved with the development of national codes and standards:

- S.K. Ghosh, Ph.D., President, S.K. Ghosh Associates Inc., highly acclaimed speaker and author on seismic-related issues and concrete design.
- Susan Dowty, S.E., Vice President, S. K. Ghosh Associates Inc., past Structural Secretariat for the IBC and consultant responsible for reorganizing the ASCE 7-05 seismic provisions.

The registration fee for the seminar is \$230.00 for SEAC members and \$275.00 for nonmembers

Time: 8:00 a.m. to 5:00 p.m.

Location: **Denver, CO (September 30, 2009)**

FEE	Seminar Fee	Optional Publication*	Total Amount
SEAC Members	\$230.00	\$15.00	
Nonmembers	\$275.00	\$25.00	

* If the optional publication (*1997 UBC/2006 IBC Structural Comparison & Cross Reference*) is selected, it will be distributed at the seminar. No S/H charges will be applied.

FEE (payable to Structures and Codes Institute)
MUST ACCOMPANY APPLICATION

Please complete one application per person. The fee includes seminar workbook, coffee breaks and lunch. All attendees earn 7.5 contact hours of continuing education.

- **Refunds are limited to 80 percent of fee and must be applied for in writing WITHIN THIRTY DAYS after the scheduled seminar.**

Name _____ (e-mail) _____

Employer _____ Title _____

Mailing address (required) Work Home _____

Telephone No. () _____ City _____ State _____ Zip _____

Bill me (*copy of purchase order must be provided*) Check or money order Visa Mastercard Discover

Card No. _____ Expiration Date _____

Name as it appears on card _____

Signature _____ Date _____

Seminar registration available by:

- **Mail: Structures and Codes Institute, 334 E Colfax St. Unit E, Palatine, IL 60067**
- **Phone: (847) 991-2700**
- **Fax: (847) 991-2702**

Check if you have specific accessibility needs. Please attach a note outlining specific need(s) to make the meeting more accessible.

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