



SEPTEMBER GENERAL MEETING

Schedule

Mark Your
Calendar
(2006)

General Membership Meetings

(Breakfast 7:30 a.m.)
January 26
March 16
May 18
July 27
September 21

Business Practice Committee Meetings

(Breakfast 7:30 a.m.)
February 9
April 13
June 8
August 10
October 12

SEAC Board of Directors Meetings

(7:30 a.m.)
January 5
February 2
April 6
June 1
August 3
October 5

Annual Dinner Meeting

November 2
6 - 9 p.m.

“Metal Plate Connected Wood Trusses Design Considerations”

Wood trusses are ubiquitous and yet often not fully understood. They are a highly engineered structural component that is very dependent on a final installation that matches the assumptions made during their design. Following a brief introduction of Keymark Engineering and Enterprises, the presentation will focus on the design considerations for wood trusses, installation issues, and quality control concerns. Discussions will include an overview of the design methodology used within truss software. Also included will be photographs of what can go wrong on wood truss projects. Also covered will be the considerations that the engineering should keep in mind during the design of structures utilizing wood trusses. Also presented will be guidelines for what to look for when the engineer must review an installed set of trusses.

Brad Cameron, P.E., Chief Engineer of Keymark Engineering, Inc. based in Boulder, Colorado will discuss the design of Metal Plate Connected Wood Trusses. Brad has a 10 year history working in the design of such trusses. Keymark Engineering also contributes to the development of the highly automated Keymark Enterprises software that is used in the design of these building components. He will present this information at the SEAC breakfast meeting September 21st.

Don't Miss Out - September General Meeting

Date: Thurs. September 21, 2006
Speaker(s): Brad Cameron, P.E.
Location: Renaissance Denver Hotel
3801 Quebec Street (south of the I-70
and Quebec intersection)

Please e-mail your reservations to Caryn Bauer at: seac@martinmartin.com.
Reservations MUST be made By 12:00 noon - Monday, September 18, 2006.

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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

President's Message

I was recently given a copy of the book "The World is Flat" and found it to be very enlightening reading. It describes the history of our world since 1989 and discusses the changing world of business with the advent of globalization. I am sure we have all pondered the impact globalization may have in our lives. Are our jobs safe? Will engineers residing in foreign counties one day be working in our place? I don't intend this message to become a rant for protectionism, instead I wanted to share the thoughts of the Author with respect to what aspects of business are safe from being lost in this changing work environment. Somewhat seriously but also humorously, the Author sites the fact that certain professions can never be globalized. He sites plumbing and garbage collection as two of these. He also discusses building modeling as an aspect of what is also safe from globalization. I was first shocked at this but the Author explained that it wasn't the actual building of the model that made it safe, it was the ability of technical people to discuss, coordinate and communicate the features of the model or building design with owners, end users and other members of the design team. In other words, face to face and personal communication cannot be globalized. In this opinion, the Author and I are in full agreement. Phone calls, web meetings and the dreaded email can never take the place of personal face to face communication. However, as important as this aspect of our business is, we often tend to neglect it. Count how many emails we receive in a day from people sitting within a 50 foot radius of us. I have already received two while writing this message. Our society is becoming more isolated

every day; our youth are more comfortable text messaging than they are having an actual conversation. We all find it easier to email a question than to discuss it personally. Some of the best coordination I have ever completed on a project was when I set up a spare desk right in the office of a client and worked side by side with them for a day. If we ever find ourselves spending a day at our desk and never personally talk to another co-worker or client we should be questioning our work habits. We are in the business of engineering consulting. Consulting is an interactive activity that requires interpersonal communication skills. I encourage all of us to rededicate ourselves to becoming better consulting engineers rather than engineering analysts. Maybe the next time we hit the "new" button on our email we should also re-think it and go see the client in person instead. As always good luck in your upcoming endeavors.



Mark Your Calendar

*The SEAC Fall Conference is
scheduled for
Thursday,
October 19, 2006*

Questions & Answers

A: Well, no one responded to our request for the lowest P.E. number. I guess the prize of a weeks trip to Cancun will have to go un-awarded.

Q: Of our practicing membership, who has the lowest P.E. number? We will provide a prize to the lowest number response at a upcoming breakfast meeting. But, you have to respond to be eligible!

New Question

Although this is a question that should be easily answered by all of us, it appears that some engineers in low seismic regions have still not figured this out. So for the sake of all of us: “What are the repercussions of using a seismic response factor of R greater than 3 for steel moment or braced framed buildings?”

In The Spotlight

The SEAC Board would like to limit any project highlight articles to a brief synopsis of the project with the focus of the article being a technical challenge and its solution. All submissions will be subject to review and editing by **SEAC’s Board of Directors** and the **Newsletter Editor**.

*Submit Articles to SEAC President at
jr@sci-denver.com*



GUIDE: RECOMMENDED STANDARD OF PRACTICE

Price: \$15 (members) and \$20 (non-members)

1999 Seminar Proceedings:

SUGGESTED LOCAL STANDARD OF PRACTICE IN THE PRECAST AND STEEL INDUSTRIES

Price: \$15

2001 Seminar Proceedings:

PRE-ENGINEERED TRUSSES: WHAT THE DESIGNER NEEDS TO KNOW AND SHOW

Price \$15

Contact Caryn Bauer at seac@martinmartin.com if you would like to purchase one of these publications.

GENERAL NOTES - *Keep them CLASSIFIED!*

Structural Engineers Association of Colorado Newsletter Classified Section
& Other General Announcements



Carollo Engineers, a nationally recognized leader in water and wastewater engineering, is seeking a **STRUCTURAL ENGINEER** to join our Broomfield, Colorado team.

We are looking for a top tier candidate with demonstrated ability in structural analysis; design of concrete, steel, and foundations; and preparation of construction drawings. Qualifications include a bachelor's degree in civil/structural engineering and 2 to 8 years of experience. A master's degree in structural engineering and experience in design of water containment structures are desirable.

Apply at "www.carollo.com/Careers" or fax your resume to 303-635-1373. EOE/AA.



Studio NYL Structural Engineers
www.studionyl.com

MULTIPLE STRUCTURAL ENGINEER POSITIONS

We are seeking structural engineers with between two to ten years experience in structural design of institutional, educational, commercial and residential buildings. Applicants must hold a BSCE or MSCE. Experience in steel, concrete, timber and masonry design is essential.

Applicants with an interest in architecture and design, combined with an ability to design creative aesthetic structural details, would be ideal.

Please send your resume via fax or e-mail (MS Word, PDF file or hypertext link).

Contact: Julian Lineham, P.E.,
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For more information about us
please visit www.studionyl.com

STRUCTURAL CONSULTANTS INC.

SCI has opportunities for structural engineers interested in utilizing cutting edge technology applied to exciting and innovative commercial projects located all across the country. Individuals dedicated to high quality service and work product will fit well into the SCI culture. SCI provides excellent mentoring and training opportunities needed to develop the full potential our engineering staff in a well run business environment. Our benefit package includes a competitive salary, overtime compensation, project bonuses, health insurance and generous vacation time. Openings are currently available for engineers with 0-10 years of experience, preferably with an M.S. degree.

Interested individuals should submit their resumes to:
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COMMITTEE REPORTS

Architectural Liaison (Chair: Julian Lineham)

The committee has begun working on the development of a post mortem report to evaluate the performance of the structural engineer following the design and construction phases of a project.

Building Department Survey (Chair: Henry Lopez)

Data entry for the new building department survey is nearing completion and the document will be going to the printer soon. The committee is planning a fall 2006 publication date.

Computers/Website (Chair: Richard Huddleston)

The committee is working with the board of directors to redesign and expand SEAC's website.

Denver Building Department Liaison (Chair: Jerry Maly)

The committee is meeting to review Denver's structural building code amendments relative to the City's pending adoption of the 2006 IBC.

Precast Liaison (Chair: Lara Hirsch)

Lara Hirsch has taken over as chair of the committee. The committee is currently reviewing precast specifications.

Snow Loads (Chair: Dick Cunningham)

Data collection and analysis is complete. The committee is working on snow load contour maps, a report outline and a presentation, which is planned for SEAC's fall seminar. Publication of the report will occur at a later date.

Steel Liaison (Chair: Bruce Wolfe)

The steel committee has begun work on its next topic, which is floor flatness in steel buildings. The committee is looking for new members from the steel detailing community.

If you would like to have news of your committee activities published in this column, please forward the information to Caryn Bauer or Street Schellhase.



Vendors Corner

For future newsletters we need the help of our engineering membership and our vendor members to provide us with additional helpful tips on products. Again we reiterate, this is not to provide a forum of advertisement, but to share new ideas or products we encounter. We encourage all of our membership to share ideas. Your ideas should be sent directly to the SEAC president at jr@scidenver. Thank you.



**Become a member of SEAC
Access the Membership Application from our web site.
www.seacolorado.org or contact
Jerry Maly at 720-962-8688.**

Share our newsletter with a colleague. Bring a guest to a Breakfast Meeting.