



# SEAC

## GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

# MARCH GENERAL MEETING

## Schedule

Mark Your Calendar  
(2008)

### General Membership Meetings

(Breakfast 7:30 a.m.)  
January 17  
March 20  
May 15  
July 17  
September 18

### Business Practice Committee Meetings

(Breakfast 7:30 a.m.)  
February 14  
April 10  
June 12  
August 14  
October 9

### SEAC Board of Directors Meetings

(7:30 a.m.)  
January 10  
February 7  
April 3  
June 5  
August 7  
October 2

### Annual Dinner Banquet

November 20  
6 - 9 p.m.

## Heavy Timber Seminar - Raleigh-Durham Airport

The Raleigh-Durham Airport Terminal C Addition when completed will be the largest Glulam Heavy Timber Truss project in the United States. The roof over the ticket and baggage claim areas are designed with 156 foot simple and multiple span lenticular shaped trusses at 30 foot on center supporting a steel deck. The job will require 68 truckloads of prefabricated Glulam/Steel Arches for truss chords. Wood to steel moment connections with loads exceeding the industry standard were at the core of the design. For these large multiple span trusses moment connection issues surrounding such a unique application are many. Such as the shrinkage of wood in a non-shrink steel connection, dissimilar material elongation and large span trusses without intermediate bracing for out of plane moments. Kris Spickler will present the challenges and solutions in designing and providing these connections as well as the latest in Heavy Timber Engineered Lumber framing systems with a focus on the current hidden connectors such as the Bertsche BVD connector used in this project.



### [Kris Spickler P.E.](#)

Kris Spickler is the Heavy Timber Specialist for Structurlam Products Ltd. in Penticton, British Columbia, Canada. He holds a Bachelor of Science degree in Civil Engineering, with emphasis on wood structural design, from Fresno State University, California.

As a licensed Professional Engineer since 1981 he has worked in the Engineered Wood Products industry for 25 years. The last ten years he has focused on Engineered Wood Lumber used in Heavy Timber design and fabrication utilizing the newest concealed connectors.

### Don't Miss Out - March Meeting

**Date: Thurs. March 20, 2008**  
Speaker(s): Kris Spickler, P.E.  
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](mailto:seac@martinmartin.com).  
**Reservations MUST be made By  
12:00 pm - Monday, March 17, 2008**

## Officers & Board Members



Rodd Merchant, P.E.  
President  
JE Dunn Construction  
303-691-7632  
rodd.merchant@jedunn.com



Elizabeth Jones  
VP/Treasurer  
KPFF Consulting Engineers  
303-865-5800  
elizabeth.jones@kpff.com



Ron Hedrick  
Secretary  
Jirsa Hedrick Associates, Inc.  
303-839-1963  
rhedrick@jirshedrick.com



Stan Neujahr  
Past-President  
Neujahr & Gorman, Inc.  
303-377-2732  
stanneujahr@neujahrgoman.com



John Malcom  
Director  
Peak Engineering, Inc.  
303-274-0707  
jmalcolm@peakengr.com



Jeannette Torrents  
Director  
JVA, Inc.  
303-444-1951  
jtorrents@jvajva.com



Jim Royston  
Director  
Western Engineering &  
Research Corp  
303757-4747  
jim@werc.com

### Submit comments/articles to:

*Ben Nelson*

Newsletter Editor  
Structural Engineers  
Association of Colorado  
c/o **Martin/Martin, Inc.**  
12499 West Colfax Avenue  
P.O. Box 151500  
Lakewood, CO 80215  
(303) 431-6100 x400  
(303) 431-6866 fax  
bnelson@martinmartin.com

**WWW.SEAColorado.org**

*Information for inclusion in the newsletter must*

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

## President's Message

Spring is coming! At least that's what I keep telling myself. I don't know about you, but about this time every year I start longing for warmer weather and spending more time outdoors. As I sit here wondering how much longer it will be before we put another winter in the books, I can't help but draw the same uncertain conclusions about the continued unsettled tone of recent economic forecasts.

Based on comments I've received from a number of our members, business seems a bit variable. National and global economic pressures and the continued decline of our housing market fueled by the sub-prime crisis have caused a number of projects to lose momentum or go away altogether. But even as the residential market continues to lag, some public and commercial sectors remain strong. Depending on your specific areas of service, you may or may not be feeling the same pressures. Looking specifically into the forecast for commodities we see some conflicting predictions. ENR economists are predicting steel prices will fall 3.5% in 2008 while a number of local suppliers and subcontractors are predicting significant increases (16%-22%) in the first part of the year. Lumber and gypsum prices are predicted to fall while masonry products are expected to see only a modest 3% increase.

So what does that mean for us? If the surge in metal prices is accurate, it will mean engineers will need to be even more creative in finding innovative solutions in order to keep cost in alignment with budget. This underscores the need for engineers to continue to engage with builders and subcontractors and incorporate the downstream activities of prefabrication and installation into their engineered solutions. We simply can't turn a blind eye to 'means & methods' and hope things work out. After all, isn't finding elegant, cost effective, solutions the true essence of what we as engineers do? Rigorously investigating all possible options and bringing forth the most comprehensive solution that satisfies our governing standards as well as meets the needs of our client.

On a much lighter note, I thought I would take a few minutes and update you with what's going on within your organization. For starters, the board has worked hard to develop and solidify the budget for this year. A summary report of the 2007 financials along with the 2008 budget have been included in the newsletter for your review. Some highlights from 2007 show we fell a little short of our anticipated revenue, primarily due to the fact that the snow load report was not completed and distributed. The good news is that it's finally done, ready for distribution, and well worth the additional effort that went into the finished product (see the announcement by **Jeannette Torrents** for more information). We also incurred some unplanned expense in filing for non-profit status (which we now have). Even with these items, we still finished the year nearly even and look forward to a positive 2008. I think you'll agree that over the last 3 to 4 years, a number of our members have gone beyond the call of duty to bring you new and updated resources like the Building Department Survey and the Wind and Snow Load reports. See, membership does have its privileges!

Other behind the scenes activity includes **Stan Neujahr's** leadership in establishing a SEAC scholarship fund. In addition, the Education Committee is already hard at work preparing for the Fall Conference. On that note, I'd like to send a sincere thanks to SEAC members **Robert Alson** and **Arthur Ashworth** for their enthusiastic leadership as new co-chairs of the Education Committee. There will more information on that topic in the coming weeks and months but mark your calendars for October 16-2008 as it will definitely be a program not to be missed.

The challenges that each of us and our industry faces seem only to be mounting. As we traverse this somewhat turbulent water I hope we embrace these new challenges and continually seek new and innovative ways to provide our clients with the highest quality service.

Good luck and continued success as this year continues.

# GENERAL NOTES - ANNOUNCEMENTS

## Call to Action for SEAC Members in NCSEA Committees

As the newest member of the NCSEA Board or Directors, I am most amazed at the far reaching ways in which the national organization serves its membership. NCSEA has ten primary committees and at least twenty sub-committees under the main umbrella. SEAC is represented on three committees so far and many other opportunities exist to serve on a national basis. Most committees are populated on a regional basis to assure even representation across the country. Some committees are seeking voting members while others are seeking contributory (advisory) members. SEAC's **Susan Jorgensen** chairs the Licensing Committee, **John Malcom** serves on the Diamond Review Program sub-committee of the Continuing Education Committee and **Jim Harris** serves on several of the subcommittees within the Code Advisory Committee. A list of the basic ten committees follows this article which can also be found on the website, [www.ncsea.com](http://www.ncsea.com). I encourage you to glance through the website and become involved. Call **Ben Nelson** at 303-431-6100 if you have questions on how you can become involved! See the list of Committee's below:

- Advocacy Committee
- Basic Education Committee
- CASE Fire Protection Committee
- Code Advisory Committee
- Continuing Education Committee
- Licensing Committee
- Membership Committee
- Membership Organization Development
- Publications Magazine Committee
- Structural Engineer Emergency Response (SEER) Committee



**Please welcome our newest members to SEAC:**

**Andrew Baturevich** (Professional Member)  
HCDA Engineering, Inc.

**Donald W. Harvey** (Professional Member)  
Atkinson-Noland & Associates

**Christopher D. Taylor** (Professional Member)  
Structural Consultants, Inc.

**Randy J. McCullough** (Affiliate Member)  
Anderson & Hastings

**Jeffrey A. Dunn** (Professional Member)  
Lindauer Dunn, Inc.

**Matt F. Grandsaert** (Professional Member)  
Integral, Inc.

**Jennifer J. Farwell-Greiner** (Professional Member)  
Wiss, Janney, Elstner Associates, Inc.

**Michael P. Griffeth** (Professional Member)  
Griffeth Structural, LLC

**Thomas A. Schott** (Professional Member)  
Performance Engineering

**Jeffrey A. Whiteman** (Professional Member)  
W.E. O'Neil Construction

**Pedro L. Lemmertz** (Affiliate Member)  
Structural Consultants, Inc.

**Charles H. Wheat** (Affiliate Member)  
Rocky Mountain Prestress



# GENERAL NOTES - ANNOUNCEMENTS

## Thank You!

### January Speaker



THOMAS W. STELMACK, P.E., S.E.  
with Parsons

### January Sponsor



T.E.A.M. Panels International is a ten-year industry leader in the design and fabrication of cold-formed steel building systems. We incorporate steel trusses, framed or pre-finished structural wall panels, floors, roof deck systems and components into construction programs nation-wide. Our growing reference list of architects, engineers, contractors and developers are valuing cold-formed steel's durability, sustainability, strength and economies of use and leverage those advantages for their industrial, commercial, retail, and multi-family projects.



M  
A  
R  
C  
H



S  
P  
O  
N  
S  
O  
R

A special thanks to SureVoid Products, Inc. for sponsoring the March breakfast. SureVoid has twenty-five years of experience designing, testing and supplying void form systems and has learned that one size does not fit all. SureVoid Products, Inc. offers standard options in strength, moisture response and configurations unavailable from the competition. SureVoid has become the largest and most complete void manufacturer in the region. SureVoid representatives will be at our March breakfast to provide you with the latest product literature and answer any question you may have regarding void forms.

### 2007 Snow Loads Map and Report.... Are Ready For Purchase

The 2007 Colorado Ground Snow Loads Map and accompanying report will be available for purchase at the March meeting. The price for the map and report will be \$75 with a \$25 discount for those who attended the 2006 Fall Seminar.

The map is the first update to the SEAC Snow Load Design Data for Colorado published in 1971. Changes from the 1971 report include:

- Tables indicating the ground snow loads for nearly 300 cities or towns throughout the state.
- Mapping of ground snow loads instead of roof design loads.
- Use of a minimum curvature algorithm to create ground snow contours on the map.
- 50 year mean recurrence interval instead of 30 year mean recurrence interval.
- 30 more years of data and more accurate snow depth to density relationship.
- The loads on the maps can be used directly with the parameters in the UBC, IBC, and ASCE-7.

The Snow Load Committee will be presenting the map and report to the Colorado Chapter of the International Code Council at their April meeting. Thank you for your support and patience.

# GENERAL NOTES - ANNOUNCEMENTS

**STRUCTURAL ENGINEERS ASSOCIATION OF COLORADO**  
2007 FINACIAL SUMMARY  
JANUARY 1, 2007 - DECEMBER 31, 2007

<i>INCOME</i>	<b>PROPOSED 2008 BUDGET</b>	<b>2008 ACTUAL</b>	<b>2007 BUDGET</b>	<b>2007 ACTUAL</b>
ADVERTISING	\$600.00		\$500.00	\$800.00
FEES: ANNUAL MEETING	\$2,500.00		\$1,500.00	\$2,800.00
DUES: BUSINESS PRACTICE COMMITTEE	\$1,080.00		\$1,200.00	\$1,080.00
DUES: MEMBERSHIP DUES (260 @ \$120.00)	\$31,200.00		\$31,200.00	\$27,280.00
INTEREST INCOME	\$1,000.00		\$1,000.00	\$906.48
MISCELLANEOUS				
SALES: BREAKFAST SPONSORS	\$5,000.00		\$5,000.00	\$3,000.00
SALES: ANNUAL DINNER SPONSOR	\$2,000.00		\$0.00	\$2,000.00
SALES: BUILDING DEPARTMENT SURVEY	\$250.00		\$5,000.00	
SALES: SNOW LOAD REPORT (50 @ \$100)	\$5,000.00		\$5,000.00	
SALES: STANDARDS OF PRACTICE	\$250.00			
SALES: PUBLICATION SALES				\$5,615.00
FEES: PAST PRESIDENTS BREAKFAST				\$400.00
SEMINAR INCOME	\$7,500.00		\$8,000.00	\$7,175.00
<b>10% INCREASE</b>				
<b>TOTAL</b>	<b>\$56,380.00</b>		<b>\$58,400.00</b>	<b>\$51,056.48</b>

<i>EXPENSES</i>				
ADMINISTRATIVE ASSISTANT	\$9,000.00		\$9,000.00	\$9,000.00
AWARDS	\$600.00		\$400.00	\$796.51
COMMITTEE EXPENSES	\$500.00		\$2,000.00	\$2,100.00
CONVENTIONS	\$3,400.00		\$3,000.00	\$3,272.44
CONTRACT LABOR	\$1,000.00		\$2,000.00	\$662.40
MEETINGS: ANNUAL DINNER	\$6,000.00		\$5,000.00	\$6,736.24
MEETINGS: BUSINESS PRACTICE	\$2,000.00		\$1,200.00	\$1,977.11
MEETINGS: GENERAL MEMBERSHIP	\$8,000.00		\$8,000.00	\$4,069.46
MISCELLANEOUS	\$500.00		\$500.00	\$150.00
OFFICE SUPPLIES	\$400.00		\$400.00	\$200.00
NCSEA DUES	\$4,200.00		\$4,200.00	\$4,005.00
POSTAGE	\$1,000.00		\$2,000.00	\$151.98
PRINTING: BUILDING DEPARTMENT SURVEY	\$0.00		\$4,500.00	\$4,068.39
PRINTING: SNOW LOAD	\$7,500.00		\$4,500.00	\$1,618.00
PRINTING: MEMBERSHIP BINDERS	\$500.00		\$500.00	\$182.61
QUALIFICATIONS BASED SELECTION	\$1,300.00		\$1,200.00	\$1,200.00
SEMINAR	\$6,000.00		\$5,000.00	\$7,076.63
PAST PRESIDENT'S BREAKFAST			\$0.00	\$578.88
WEB SITE	\$500.00		\$1,000.00	\$1,112.00
IRS NON-PROFIT FILING	\$0.00		\$0.00	\$750.00
ACCOUNTANT	\$750.00		\$0.00	\$2,250.00
<b>2% DECREASE</b>				
<b>TOTAL</b>	<b>\$53,150.00</b>	<b>\$0.00</b>	<b>\$54,400.00</b>	<b>\$51,957.65</b>

<b>NET INCOME</b>	<b>\$3,230.00</b>	<b>\$0.00</b>	<b>\$4,000.00</b>	<b>-\$901.17</b>
-------------------	-------------------	---------------	-------------------	------------------

<i>CURRENT RESERVES</i>	<u>12/31/2005</u>	<u>NET INCOME</u>	<u>12/31/2006</u>
CHASE BANK CHECKING			\$8,333.82
CHASE BANK CD (Matures 02/17/08)	\$10,000.00		\$10,371.71
CHASE BANK CD (Matures 08/17/08)	\$ 10,000.00		\$10,534.77
<b>TOTAL</b>		\$906.48	\$29,240.30

# GENERAL NOTES - *Keep them CLASSIFIED!*

Structural Engineers Association of Colorado Classified Section  
& Other General Announcements



Structural Engineer - Martin/Martin, Inc., Denver, CO. Work under close supervision & training of a Professional Engineer utilizing engineering principles to complete design calculations for structural engineering projects. Utilize Revit by Autodesk to develop BIM and integrate them with analysis software. Requires Master's degree in engineering. Resumes via email only to JPetersen@martinmartin.com. Visit our website at [www.martinmartin.com](http://www.martinmartin.com)

## **Classified Ad Policy**

To place an ad please contact

Caryn Bauer at:  
[seac@martinmartin.com](mailto:seac@martinmartin.com)

Please try to keep ads to 100 words (maximum).

The cost is \$100.00.



The Fay Engineering Corporation – A Leader in Forensic Engineering since 1971 - has an immediate opening for a Structural or Architectural Engineer. The successful candidate will consult with insurance adjusters, attorneys, contractors and building owners on various litigations, claims, damage evaluations and remediation.

Do you enjoy interacting and building relationships with clients?  
Can you work independently and manage multiple tasks?  
Are you ready to take control of your career?

If you answered "Yes" to these questions ... Please visit our website for requirements and details [www.fayengineering.com](http://www.fayengineering.com)

Email cover letter and resume to [wmh@fayengineering.com](mailto:wmh@fayengineering.com) or fax to 303-329-5209.

## 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](mailto:seac@martinmartin.com)  
for order forms.

