



# SEAC

## GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

## NOVEMBER ANNUAL DINNER BANQUET

### 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 Banquet

November 2  
6 - 9 p.m.

## Every place has a history. What's yours? *-Historical Insights-*

Did you ever wonder about the history of a particular structure? The speaker at our Fall 2006 Banquet could shed some light on the matter. As proprietor of Historical Insights, **Dave Burrell** has researched the true stories behind more than a hundred buildings in the Denver area. And oh, the things he's found...

- One of the greatest ski jumpers in Colorado history
- How the Tony Awards originated in Denver
- A skydiving dog... and his final resting place
- The winning contestant on *What's My Line?*
- A pilot's license signed by Orville Wright
- Denver homes destroyed by a B-29 bomber
- The politician, crook, and CIA operative who saved Capitol Hill

And these are in everyday homes, not big mansions. Every home has history, and Historical Insights uncovers them. The realtors, developers, private businesses, and homeowners who hire them are mining value from the past – eliciting the worth inscribed within each structure's walls. As a result, they not only satisfy curiosity but also connect us to the past, strengthening ties to the homes and communities to which we all implicitly belong.

Historical Insights stories are tempered by both history and business. As chief historical officer, Dave Burrell brings his credentials as a curator at the Buffalo Bill Memorial Museum, teacher at Colorado Timberline Academy and Ohio State University, graduate student at the University of Chicago, and intern at the Smithsonian Institution's National Museum of American History. With his background as a technical trainer and manager of software implementation projects, Burrell seeks to provide both the fact-based inquiries which answer questions and the richly-detailed descriptions which give life to stories.

The after-dinner presentation of our 2006 Fall Banquet will thus include tales of the past and useful tidbits on conducting your own research. Bring your questions and curiosity, and you will learn about stories you encounter every day without even noticing.

In addition to Burrell's historical presentation, we will be honoring three past presidents:

Bob Fritz 1996  
John Reins 1997  
Jerry Maly 1998

We will also be introducing this year's candidates for new Director and Secretary Positions on the Board. We look forward to seeing everyone there.

Cost: \$30.00 for members and guests

### Don't Miss Out - November Annual Banquet

Date: **Thurs. November 2, 2006**

Speaker(s): **Dave Burrell**

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](mailto:seac@martinmartin.com). Reservations**

**MUST be made**

**By 3:00 p.m. - Tuesday, October 31, 2006.**

## Officers & Board Members



J.R. Barker  
President  
Structural Consultants, Inc.  
303-399-5154  
jr@sci-denver.com



Stan Neujahr  
VP/Treasurer  
Neujahr & Gorman, Inc.  
303-377-2732  
stanneujahr@neujahrgorman.com



Rodd Merchant, P.E.  
Secretary  
JE Dunn Construction  
303.691-7632  
rodd.merchant@jedunn.com



Street Schellhase  
Past-President  
Kirk & Young Structural Eng.  
720-932-3744  
ss@kirk-young.com



David Henley  
Director  
Vulcraft  
303-757-6323  
dhenley@vulcraft-ne.com



J.D. Schafer  
Director  
Stresscon Corporation  
303-777-0977  
jdschafer@stresscon.com



Jim Royston  
Director  
Western Engineering & Research Corp  
303.757.4747  
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  
(303) 431-6100 x400  
(303) 431-6866 fax  
bnelson@martinmartin.com  
**WWW.SEACOLORADO.org**

*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 believe Einstein theorized that time passes slower as an individual travels closer to the speed of light. Now I know I'll never be a physicist, the study of coriolis forces in college convinced me of that, but I think there may be more to this than Einstein thought. It appears to me that the speed of time seems more related to our age, our work load and the proximity of our next deadline than to the speed at which we are traveling through space. This has been a very hectic year for many of us. As busy as this year seems to have been, it has made me recall my first trip to the Denver area looking for work in the mid 1980s. It was a little different world back then. Few of my graduating class had job offers and most firms in the area were consolidating and not hiring. The economy seems to forever cycle and we should all enjoy prosperous times while we have them. Similar to how busy most of our firms have been this year, it has also been a very busy and productive year for SEAC. We have seen advancements in many areas and the dedicated work by our members in SEAC's committees should be much appreciated by all of us. Our accomplishments this year include new

wind, snow and building department studies. Our new website will shortly be up and running, providing an excellent source of information for our members. Our committees are filled with busy individuals that still seem to be able to find time to give something back to our profession through their voluntary efforts. I would like to personally thank all of our members that serve on committees for their service on our behalf. I would also like to thank **Street Schellhase** who is ending his four years of service on the Board and has continued his service as past-president this year, and also **Dave Henley**, who is finishing his third year as a Board member. It has been a great experience to be of service this year and rub shoulders with so many outstanding Structural Engineers in the Colorado area. I wish us all success in our professional endeavors. Thank you for this opportunity.



*SEAC Members,*

*A special thank you to all of our SEAC Members and Volunteers for helping make this one of the most successfull years ever!!! Thank you all for your participation.*

# Questions & Answers

**Q:** 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?"

**A:** I am very encouraged that several people knew the answer to our last Newsletter question. This is an important issue that we should all understand. In areas of low seismic design, it is most economical to use a Seismic Response value of 3 for steel moment or braced frames. The reason for this is that if a value greater than 3 is used, the steel must be detailed according to ANSI 341. This can result in much higher costs in the connections. For example, in an ordinary braced frame system the connections would have to be designed for forces equal to  $RyAgFy$ . These can easily be an order of magnitude higher than actual loads even compared to a design based on an  $R = 3$ . As a side note, an exception to this rule has been provided in the 2005 edition of ANSI 341. Rather than be forced to a connection design load of  $RyAgFy$ , the engineer will have the option of design for the amplified omega factored loads.

## New Question

Coming in January's Newsletter

## Committee News

### Architectural Liaison (Chair: Your name here)

The committee is in need of a new chair to replace Julian Lineham, who is stepping down. Please contact any board member if you are interested in chairing this committee. The committee had begun work 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)

The new 2006 Building Department Survey is complete and on its way to the printer. An announcement as to availability and price of the document is forthcoming.

### Computers/Website (Chair: Richard Huddleston)

The committee is working with the board of directors to redesign and expand SEAC's website. A sneak preview of the site is planned for SEAC's fall seminar.

### 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)

The committee is currently reviewing precast specifications.

### Snow Loads (Chair: Dick Cunningham)

Data collection and analysis is finished and a rough draft of the new 2006 Snow Load Report is complete. The committee prepared a presentation for SEAC's fall seminar. Publication of the report will occur later this year.

### 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 and construction communities.

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

# GENERAL NOTES - *Keep them CLASSIFIED!*

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

## BROWN AND CALDWELL

Brown and Caldwell, a nationally recognized environmental engineering and consulting firm has an excellent career opportunity for a Structural Engineer to join our Denver, Colorado office.

### **Structural Engineer II - Requisition #21-30-06-291**

**Responsibilities:** Assist with detailed structural engineering on design projects for new and existing water and wastewater treatment systems, as well as other types of structures under the supervision of a registered professional engineer. Support project design teams and other engineers in development of specifications, detailed drawings, reports and plans.

**Qualifications:** BS degree in engineering (civil with structural emphasis) and a minimum of two years of experience with industrial structures is preferred. Master Degree in structural engineering is desirable.

We offer a competitive salary, benefits and 401(k). For more details visit us at [www.brownandcaldwell.com](http://www.brownandcaldwell.com). Please reference position/requisition number in cover letter and e-mail makiyama@brwncald.com. We value workforce diversity. EOE/AA.

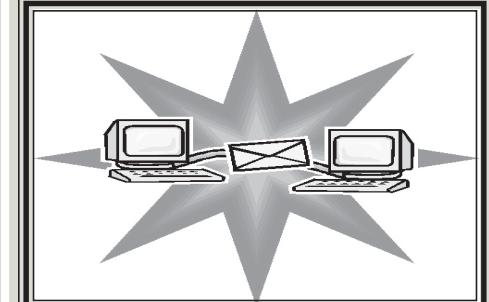
## Vendors Corner

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. Thank you.

## 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](mailto:jr@sci-denver.com)*



If you have a change of address, phone, fax, or e-mail. Please e-mail Caryn Bauer at [seac@martinmartin.com](mailto:seac@martinmartin.com)



## Mark Your Calendar

The SEAC **JANUARY 2007** General Breakfast Meeting is scheduled for Thursday, January 25, 2007, and will be held at the **Lakewood Country Club** @ 7:30 am. This will be a joint SEAC/RMSCA Breakfast Meeting.

Topic: "Suggestions for Improving the Structural Steel Shop Drawing Process"

More details will be forthcoming.

# Every place has a history. What's yours?

Historical Insights finds stories within old structures, producing **affordable, professional histories** for businesses and homeowners.

## AS FEATURED BY

*Rocky Mountain News*

*Realty Times*

*Colorado Public Radio*

and more...

These histories mine value within the past, offering unique stories, individualized business marketing, tax incentives, remodeling guidance, and a delightful gift.

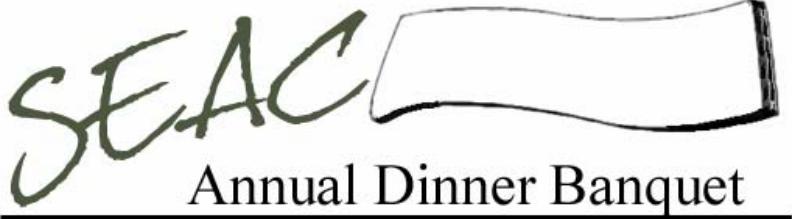
Our chief historian, Dave Burrell, will be speaking at the 2006 Structural Engineers' Fall Dinner meeting.

Call our trusted historical detectives, and your building's history will be a mystery no more.



## historical Insights, Inc.

323 Lincoln Street, Denver Colorado 80203 303.818.3263 [www.historicalinsights.com](http://www.historicalinsights.com)



**SEAC**  
Annual Dinner Banquet

*The STRUCTURAL ENGINEERS ASSOCIATION  
OF COLORADO presents our Annual Dinner Banquet:*

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**“Historical Insights: Some of Denver’s  
More Notable Homes”**

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Renaissance Denver Hotel  
3801 Quebec St. Denver, CO  
Thursday, November 2, 2006 (p.m.)

With Featured Speaker,  
Dave Burrell, Historical Insights

**AGENDA**

- 6:00 P.M.** Social time with cash bar (Cash bar available until 7pm)  
**6:30 P.M.** Dinner  
**7:15 P.M.** Recognition of past SEAC President  
**7:25 P.M.** Business Meeting with announcement of nominees for officers and Board of Directors for 2006. Additional nominations may also be made from the floor.  
Membership Vote: Increase Dues  
**7:30 P.M.** Entertainment Program: Dave Burrell

**RESERVATIONS**

Reservations are required for this event. Please RSVP no later than 3 p.m., **Tuesday, October 31, 2006**, by contacting Caryn Bauer. Fax this form to (303) 431-6866 or email [seac@martinmartin.com](mailto:seac@martinmartin.com)

YOUR NAME: \_\_\_\_\_

I will be attending the SEAC Annual Banquet: YES NO      With a Guest: YES NO

**COST**

Members and Guests will be charged \$30.00 (each). Payment will be accepted at the door.