



SEAC

GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

JANUARY GENERAL MEETING

Schedule

Mark Your Calendar
(2007)

General Membership Meetings

(Breakfast 7:30 a.m.)
January 25
March 15
May 17
July 19
September 20

Business Practice Committee Meetings

(Breakfast 7:30 a.m.)
February 8
April 12
June 14
August 9
October 11

SEAC Board of Directors Meetings

(7:30 a.m.)
January 11
February 7
April 4
June 6
August 1
October 3

Annual Dinner Banquet

November 15
6 - 9 p.m.

Improving The Structural Steel Shop Drawing Process

The **SEAC/RMSCA** Steel Liaison Committee will be making a presentation on the topic of "Suggestions for Improving the Structural Steel Shop Drawing Process". The committee is comprised of Front Range Fabricators, Detailers, Erectors and Structural Engineers, meeting monthly to discuss topics relevant to structural steel in an effort to improve the industry. White papers have been produced over the past several years. Most recently, the Committee made a presentation at the NASCC conference in San Antonio concerning Exterior Wall Interface Tolerances. This new topic has been discussed for the past 18 months with respect to identifying the following:

1. The Purpose of Structural Steel Shop Drawings
2. The Normal Shop Drawing Process
3. The Problems in Preparing Shop Drawings
4. Recommendations to Improve the Shop Drawing Process.

This timely issue has struck a nerve throughout the construction community. The committee has also received input

from General Contractors and Architects. Presenters will be **Richard Huddleston** of Zimkor LLC, **Jules Van de Pas** of Computerized Structural Design and **Bruce Wolfe** of Structural Consultants, Inc. We believe this presentation will be of interest to Architects, General Contractors, Detailers, Steel Fabricators, Erectors, and Structural Engineers.



REMINDER

The SEAC **JANUARY 2007** General Breakfast Meeting is scheduled for Thursday, January 25, 2007 (4th Thursday), and will be held at the **Four Points Sheraton Hotel (I-25 and Hampden)** 7:30 am. This will be a joint SEAC/RMSCA Breakfast Meeting.

After the January Meeting, SEAC General Breakfast Meetings will resume at the Renaissance Hotel.

Don't Miss Out - January General Meeting

Date: Thurs. January 25, 2006 (4th Thurs)

Speaker(s): Richard Huddleston
Jules Van de Pas
Bruce Wolfe

Location: Four Points Sheraton Hotel
6363 E. Hampden Ave., Denver

Please e-mail your reservations to **Leslie** at: ***lfoster@asacolorado.com***. or by phone at **303.991.2637**. Reservations **MUST** be made **By 12:00 pm - Friday, January 19, 2007**.

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

Caryn L. Bauer
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President's Message

The Structural Engineers Association of Colorado has come a long way since I first became a member in 1981 and so has the profession of Structural Engineering; all for the better. The original membership of the Structural Engineers Association of Colorado was comprised of principals of Consulting Structural Engineering Companies in Colorado. In 1992 the membership was opened up to any structural engineer in Colorado and an Affiliate and Student membership category was created. There was approximately thirty-five members when I joined back in 1981. The membership has grown from ninety members in 1993 to the current membership of Two Hundred and Eighty members. It has always been considered the premier professional engineering society for structural engineers in Colorado and we owe a lot of thanks to all of the past officers and directors for making this organization what it is today.

With Two Hundred and Eighty members there is a lot of work and responsibility for the Officers and Directors who volunteer their time to lead the organization. SEAC does have a part-time paid Administrator, Ms. Caryn Bauer, who publishes the newsletter, collects dues and sets up our meetings among the many other things she does. Without Caryn this organization could not continue to function at its current level. SEAC currently has twenty different committees available for participation by any member. I recently sat in on the Steel Liaison Committee meeting and it reminded me of how much can be learned by participating on a committee. If you are not currently active on a committee, you should consider joining because you are not taking full advantage of what this organization has to offer.

The Steel Committee has prepared and is presenting "Suggestions for Improving the Structural Steel Shop Drawing Process"

at our joint meeting with the Rocky Mountain Steel Construction Association at the Four Points Sheraton Hotel in January. The next undertaking for this committee is to prepare a document covering Floor Levelness for Composite Steel and Concrete Floors. The discussions that take place in preparing these documents are invaluable. This is an example of just one of the many committees available for your participation. If you do not know what all of the different committees are, you can visit the SEAC web site or you can contact an officer or director to inform you what the committees are and how to get involved in them.

The National Council of Structural Engineering Association also has committees that you can join. If there is one area that SEAC is weak in, it is participation on a national level. Colorado structural engineers are some of the best in the country and have a lot to offer on a national level. If there is anyone who is interested in participating on a national committee please contact **Mr. Ben Nelson**, (Martin/Martin, Inc.) the Colorado Delegate to NCSEA or myself.

To get the full benefit of this organization you should get involved beyond just attending the meetings. Our attendance at meetings has been great and I encourage everyone to attend every meeting. The technical topics and the interaction with other structural engineers at these meetings help create a cohesive structural engineering environment in Colorado. If you know a structural engineer that you work with who is not a member of this organization, please encourage them to join. Our goal is to have everyone who is eligible to be a member of the Structural Engineers Association of Colorado become a member.

Qualifications Based Selection (QBS) is the means of retaining architects, engineers and other design professionals on the basis of their skills, experience and capabilities. QBS is a reliable means of ensuring the success of a project. Consultant selections that are based solely or primarily on price seldom include meaningful comparisons of capabilities.

When a consultant is retained on the basis of its qualifications, you have a partner with common goals and expectations. One that is looking out for your bottom line, not his own. With QBS, Owners still have the benefit of considering the cost of consultants' fees. By first interviewing a short list of qualified firms and then negotiating with the most qualified firm, the parties have the opportunity to understand the circumstances that will establish the professional fee. If the Owner is unable to reach an agreement with their first choice they are still able to consider the next most qualified firm. Therefore, QBS does not result in higher consultant fees.

The alternative to QBS is fee-based selection. This method is often effective for selecting a construction contractor; however it is inappropriate for hiring professional design consultants. When competitive bids are solicited for construction, contractors are given a clearly defined and specific scope upon which to calculate their final cost; architects and others who are charged with solving unique design problems have no such information. Design consultants work with their clients to define the needs, tailor the process and find a solution. Simply stated, a design consultant provides a service; a contractor's efforts result in a product.

1% of the lifetime cost of a project is spent on architectural and engineering services; the other 99% is spent on construction, operation and maintenance. It does not make sense to scrimp on the 1%, which determines the effectiveness of the remaining 99%. When consultants are selected primarily or solely on the basis of fees, the opportunities for additional design costs mount, as the full scope becomes known. So,

Welcome To SEAC

Please welcome our newest member to SEAC:

Michael Packo
Sika Corporation

while seemingly saving money up front, you can be surprised by ultimately paying more later. The State of Colorado Brooks Law requires all state funded organizations to comply with Qualification Based Selection process.

QBS Colorado has asked our organization to join with the American Council of Engineering Companies, Colorado Association of Geotechnical Engineers, American Institute of Architects and the Professional Engineers of Colorado to become a member of QBS Colorado. If any of our members have an opinion regarding Qualifications Based Selection as method of selecting a consultant, they should contact an Officer or Director to express their opinion. A representative of QBS Colorado will attend our March meeting to further enlighten us on the subject. A vote of our membership will be taken to determine if the SEAC should become a member of QBS Colorado.

Annual Dinner

The annual dinner was held on November 2, 2006, at the Renaissance Denver Hotel. President, JR Barker welcomed everyone and gave a brief synopsis of the accomplishments of the organization for the past year. 2006 saw the wind maps approved, the Snow Load and Building Department Surveys were finalized for printing and the Web Page was undated. There was record attendance at all of our meetings. JR thanked Dave Henley for his three years of service as a Board of Director for the organization and he introduced the candidates for 2007 Officers and Directors. Past Presidents Bob Fritz ('96), John Reins ('97) and Jerry Maly ('98) were recognized for their contribution to the organization. The featured speaker for the evening was Mr. Dave Burrell who spoke on the topic "Historical Insights: Some of Denver's More Notable Homes". If you were not able to attend you missed out on a great evening.



Left to Right: Jerry Maly, John Reins and Bob Fritz

GENERAL NOTES - *Keep them CLASSIFIED!*

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



Beyaz & Patel specialized in structural engineering of water, wastewater and transportation infrastructure projects has the following positions available in California.

Senior Project Manager-Structural Design - 15 years experience in structural design, including seismic design & rehabilitation of hydraulic structures and buildings related to environmental projects. Strong project management and written/verbal communication skills. Good computer skills. Licensed P.E. in CA. S.E. preferred. **Project Manager**- 10 years experience in structural analysis and design of buildings and concrete structures for water and wastewater facilities. Strong management and communication skills are essential. Competitive compensation and excellent benefit package. Fax or email resume to Denise at 858-451-0194; bpsd@beyazpatel.com



Looking for an exciting career in the mountains? Schmueser Gordon Meyer, a leading engineering and surveying firm with offices in Glenwood Springs, Crested Butte, Aspen, and Meeker, is seeking qualified candidates for positions within our civil, structural, and water/wastewater engineering teams. P.E.s preferred. We offer a competitive salary and benefits package, with one of the best work environments in the industry. SGM is a strong, vibrant company that believes in a healthy balance between work and play. For more information on career opportunities with SGM, visit our website at www.sgm-inc.com or send your resume to lorig@sgm-inc.com or fax to 970.945.5498.

CEU CREDIT FOR SEAC

REMINDER: CEU HOURS ARE TRACKED BY MEMBERS SIGNING THE ATTENDANCE SHEET AT EACH GENERAL MEETING. SIGNING THE ATTENDANCE SHEET ASSURES YOU OF RECEIVING 0.1 CEU HOURS FOR EACH MEETING ATTENDED. CERTIFICATES ARE MAILED AT THE END OF THE YEAR



We seek to hire talented structural engineers with 0-10 year's related experience and BSCE, BSAE, MSCE or MSAE Degree with focus on structures. If you are highly motivated, possess strong technical and communication skills, and are passionate about your career, we offer an environment in which you can thrive.

Our employees enjoy a competitive salary, incentive bonuses, 401-k contributions and company stock ownership benefits as well as generous vacation and insurance benefits. Martin/Martin, Inc. is an Equal Opportunity Employer.

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