

SEAC Newsletter

Structural Engineers Association of Colorado



Mark Your Calendar (2002)

General Membership Meetings

(Breakfast 7:30 a.m.)

January 17
March 14
May 9
July 18
September 12

Business Practice Committee Meetings

(Breakfast 7:30 a.m.)

February 14
April 11
June 13
August 8
October 10

SEAC Board of Directors Meetings

(7:30 a.m.)

January 3
February 7
April 4
June 6
August 1
October 3

Annual Dinner Meeting

November 7
6 - 9 p.m.

SEPTEMBER GENERAL MEETING

The concrete industry has an updated design code, ACI 318-2002. With changes from load factors to analysis techniques, the Precast Concrete industry has to be responsive and dynamic to keep up with these changes. This month's guest speaker, SEAC member **Jason P. Lien**, has been taking an active part in making these changes. Jason is the Engineering Manager at Rocky Mountain Prestress, one of the local PCI certified precast concrete suppliers. He is on the PCI committee for the Precast Concrete Design Handbook and is the sub-chair of Chapter 6. He will present a program dealing with some of the latest developments within the precast industry. The topics he plans to discuss will be the status of concrete embedment and anchorage in addition to PCI's position on some of the latest ACI changes. Some of the topics presented will be a prelude to a formal seminar sponsored by the Colorado Prestresser's Association, "ACI 318-2002: Changes that Affect the Precast Concrete Industry" being planned for later this year.

Please plan on joining us for our September's General meeting on Thursday, September 12th starting at 7:30 for breakfast. Also, please make your reservations using the email address below and put a reminder on your calendar. We look forward to seeing you in September!

NCSEA NATIONAL CONVENTION COMING TO COLORADO IN 2003!

SEAC is proud to report that Colorado has been "selected" to host the 2003 NCSEA Annual Convention. **Brent Norris** and **Ben Nelson** hope to have contacted a few of you by the time you read this to form a special SEAC committee to organize this important event. We will also be recruiting volunteers at the next meeting.

This year's annual NCSEA meeting is scheduled for mid-October in Chicago. As Brent has mentioned before, the members of the Board would appreciate hearing your opinions regarding the issue of Certification for Structural Engineers. This would make our delegate's job of voting at this year's convention both easier, and more representative of what the members from Colorado feel about this important issue. To the best of our knowledge, none of the Board members have heard any comments from a member about this issue. What do you think? Yes - No - Perhaps..... Maybe that will stimulate some discussion!

UPCOMING GENERAL MEETING

Date: Thursday, September 12 @ 7:30 a.m.

Speaker: Jason P. Lien

Location: Renaissance Denver Hotel - 3801 Quebec Street (south of the I-70 and Quebec Street intersection)

Reservations: Email Greg Larson at glarson@jvajva.com by noon on September 10th, or call 303-444-1951!



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

Caryn L. Bauer
Newsletter Publisher

PRESIDENT'S MESSAGE

My wife and I just returned from 'Indy.' We went there to watch the Brickyard 400 race. That is, without a doubt, the hottest I have ever felt. A few years ago, I spent a good part of August in the desert outside of Las Vegas, Nevada. There, we stood on a pile of scrap steel searching for pieces of the Las Vegas Hilton sign that the "engineer" had ordered destroyed after the sign collapsed. Yes, it was hot there too, 110°F, but nothing like Indy! We are lucky we don't often deal with such humidity! And the poor drivers and crews - 135°F track temperatures, and 160°F temperatures inside the cars! Those dark colored uniforms, the fire suits. Man, did they earn their money that day! The next time one of your clients is turning up the heat on that deadline, try remembering those drivers. I've said before, when you are having troubles, all you really need to do is look to your left, or to your right, and chances are pretty good that you will find someone worse off than you.

In my previous President's Message, I promised a report on our June 21st meeting in Glenwood Springs. There were 26 attendees who signed the guest roster. Sixteen of those were from the west slope. Five of the west slope engineers were already members of SEAC. A surprise guest was John Archuleta. For those who don't know, he is the 'A' in JVA. He was the SEAC President in 1973. He retired from the engineering profession some 20 years ago, and currently owns a winery on the west slope. The intended purpose for having this meeting was two-fold. One, we wanted to let the members outside of the Denver metro area know that we know they exist, and welcome their participation in the organization. Secondly, we want to spread the word that SEAC exists, and would welcome participation from new members not aware of SEAC. The business portion of the meeting was devoted mainly to discussions about the benefits of being members of SEAC. **Jim Harris** (J.R. Harris & Co) gave a presentation on the ASCE study of the performance of the structure at the Pentagon following the tragedy on Sept. 11th. Jim's presentation was also repeated in Denver at our July General Meeting. I would like to thank Jim for volunteering his time to give us those two presentations. I would also like to thank the Board members that were able to go to Glenwood Springs, along with the guests that came from the Front Range to show their support. Also, a special thanks to Adolfo and Paula Gorra for their help with making the arrangements in Glenwood! Like all volunteer efforts, the more the membership can provide help for the organization, the more the organization can provide for the membership.

We had another outside event organized by SEAC that I would like to report on. On August 9th, Zimkor Industries opened the doors of their Littleton shop and gave some of us a tour. Over twenty people enjoyed the tour that we split into two groups. SEAC member **Arthur Ashworth**, a Project Manager at Zimkor, presented issues faced by his end of the business on a daily basis. To briefly summarize, he stressed the importance of open communication between the parties involved in the design and construction processes throughout the duration of the project. The other group took the plant tour. There are larger facilities in the area, but they seem to get the work in their niche of the market completed successfully. I was particularly surprised to find out how willingly they seemed to subcontract special operations that were beyond the capabilities of their plant out to other firms. I did not know that they could ask their suppliers to provide beams with special copes or holes - I always assumed that was a shop operation. They were in the process of fabricating a large plate girder for a church in Ft. Collins. During my tour through the plant, they were preparing to do an ultrasonic test of the welded splice in the flange plate. We, unfortunately, had to miss the test. The one down side of the tour was that the second group ran out of time and did not get to try their hand at welding. A few of them did get a chance to weld a headed stud to a plate and perform a bend test. That is, until they ran out of the plates that the studs were being welded to. Seems to me the first group must have had to weld a few extra studs, doesn't it! I will say that if they had to rely on us to weld those studs, they may pass the bend test, but their experienced people could grind down and reinstall 10 failed studs for every one we applied! I think we probably should think about keeping our day jobs. Lunch was delicious. I'll report on the Rocky Mountain Prestress tour in the next issue.

A. Brent Norris



**2002 NATIONAL SEI
AWARD GOES TO
ONE OF OUR OWN**

The Walter P. Moore Award was established in 1998 by the Structural Engineering Institute to honor Walter P. Moore, Jr. in recognition of his dedication to, and technical expertise in, the development of structural codes and standards. The 2002 Walter P. Moore Award was presented to our own **Jim Harris**, in appreciation for his years of outstanding service as chair of ASCE 7. Jim is well-versed in structural engineering practice and research. He has designed or evaluated hundreds of structures ranging from dwellings to high-rise buildings including industrial facilities, long spans, buildings in the highest seismic zones, excavation bracing, pile and pier foundations, and renovations of historic buildings. This background spans nearly all types of construction and structural materials and includes responsibility for management of all design disciplines. His experience includes six years of full time research. His research has focused on the loading and response of structures, particularly from earthquake and snow loadings. A second focus is on improving the formulation and use of engineering standards. He has written over 25 reports and journal articles on the results of his research. He is an active member of several committees that produce national standards for structural engineering practice. **Jim Harris** is Principal of J.R. Harris & Company in Denver.

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SEAC RESOURCE WEBSITE OF THE MONTH

One of the several benefits of our SEAC organization's membership in the National Council of Structural Engineering Associations (NCSEA) is supporting the NCSEA website. It has numerous links to engineering related sites and is updated rather frequently. Check it out!

www.ncsea.com

(If you have other websites that you feel would benefit our membership, please forward the information to the SEAC Newsletter Editor.)



**STRUCTURAL ENGINEERS
ASSOCIATION OF COLORADO**

Upcoming SEAC Seminar:

**“Wind Design for Colorado Applications”
(using ASCE-7 1998)**

Key Speaker: **John Peterka, PhD, P.E.**
Vice President of Cermak
Peterka Petersen, Inc.
Member of the ASCE-7 Task
Committee on Wind Loads

Scheduled Date: Thursday, October 24, 2002

Location: Denver

Time: Check in at 8 am, proceedings
from 8:30-5pm
(with break for lunch)



**CHANGE OF ADDRESS?
NEW E-MAIL INFORMATION?**

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

PUBLICATIONS FOR PURCHASE

GUIDE: RECOMMENDED STANDARD OF PRACTICE

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

Contact: Bruce Wolfe,
Structural Consultants, Inc. 303-399-5154

1997 SURVEY OF COLORADO BUILDING DEPARTMENTS

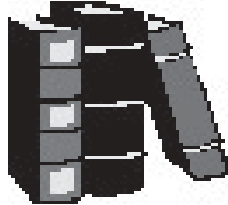
price: \$25 (CD)

Contact: Henry Lopez
303-447-2813

1971 COLORADO SNOW LOAD REPORT

price: \$10

Contact: Henry Lopez
303-447-2813



1999 Seminar Proceedings:

SUGGESTED LOCAL STANDARD OF PRACTICE IN THE PRECAST AND STEEL INDUSTRIES

price: \$15

Contact: Bruce Wolfe,
Structural Consultants, Inc. 303-399-5154

2001 Seminar Proceedings:

PRE-ENGINEERED TRUSSES: WHAT THE DE- SIGNER

NEEDS TO KNOW AND SHOW

Price \$15

Contact: Bruce Wolfe,
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