



SEAC

GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

JANUARY 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.

State Highway 82 is the main access into Aspen, Colorado approaching from Glenwood Springs on the west side. There is a need to improve the SH 82 Bridge over the large Maroon Creek basin, as the existing bridge was originally constructed as a railroad trestle bridge in 1888 and eventually converted for highway use in 1929. The State Highway 82 Entrance to Aspen, Record of Decision (ROD) was completed in 1998, providing recommended improvements to the highway, which included a new bridge over Maroon Creek and included certain requirements concerning aesthetics and environmental impacts. In late 2004, a study was completed for a recommended structure type for the new bridge. Factors considered were constructability, environmental impacts, aesthetics, and cost. The recommended structure type is a single, cast-in-place, constant depth concrete segmental box girder, erected in balanced cantilever. The piers are concrete A frames that reflect the architecture vocabulary of the historic trestle bridge. The presentation will review the history of the project, discuss the structure type studies and final design details, and follow the construction progress, which began in late 2005. The structure was completed in December of 2007.



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

Tom Stelmack holds a Bachelor of Science degree in Architectural Engineering and a Master of Science degree in Civil Engineering from the University of Colorado, Boulder. He has 24 years of experience in the design and construction of bridges, including concrete segmental, cable-stayed and arch bridges, and is a member of the American Segmental Bridge Institute and Structural Engineers Association of Illinois. He is currently a Senior Project Manager in the Denver, Colorado office of Parsons.



Don't Miss Out - January Meeting

Date: **Thurs. January 17, 2008**

Speaker(s): Thomas Stelmack

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.
Reservations MUST be made By 12:00 pm - Monday, 14, 2008

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Information for inclusion in the newsletter must

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President's Message

Welcome to 2008! I hope everyone's holidays were relaxing and stress-free. I'd like to start by saying how honored I am to be the President of this great organization for the coming year and it is with a strong sense of commitment that I accept the challenge of carrying on the extraordinary and selfless efforts of our organizations past Presidents. I would also like to thank last year's President **Stan Neujahr** for his service and accomplishments.

My question for all of you is this. Has there ever been a better time to be a Structural Engineer? Movements such as Lean Construction, Sustainability, Building Information Modeling (BIM), and Integrated Project Delivery have gained considerable momentum and will undoubtedly reshape the practice of structural engineering. We can no longer work in silos, concerned only with the science of design. Prefabrication, waste reduction, and process improvement will, in coming years, redefine our working relationships, provide opportunity for alternative non-traditional service offerings, and create new professional opportunities for structural engineers.

Movements in associate organizations are pushing commoditization of professional services. Some municipalities are even pursuing legislation that would impose a tax on the billings of professional services firms. The recently released AIA Guide to Integrated Project Delivery may well become the new standard for design and construction. The design profession is clearly at a crossroads. Either we succumb to shrinking margins by continuing to do things the way our predecessors did or we rise to the occasion with the perseverance and resolve that makes this profession great!

Over the coming months we will explore these issues and opportunities and how leadership today can elevate the stature and value of the Structural Engineer.

The challenges that face the A/E/C industry and the inefficiencies of our current process are many. There is no better participant prepared to drive innovation than the Structural Engineer. For clearly it is better to control our own destiny than sit passively on the sideline and watch the rest of our industry dictate our future. A young architect colleague of mine sums it up this way, "It is easier to ignore the worlds' observations than our own" [Joshua Prince-Ramus, REX Architecture]. It is time to move beyond the proverbial "Red Ocean" and redefine the 'structure'.

Volunteer Needed Education Committee

SEAC is looking for a new Chairperson to head up the Education Committee. If you are interested please contact SEAC President, **Rodd Merchant**.

SEAC would like to extend MANY THANKS to **Ben Nelson** for his 9 years of service to the Education Committee.



Any Suggestions.....?
SEAC wants to hear from you! Do you have ideas/suggestions for this year's Annual Dinner or for future General Meetings? Please contact Rodd Merchant at: rodd.merchant@jedunn.com with any ideas or suggestions.



The updated membership roster will be released in March. If you have any changes to your contact information please contact Caryn Bauer at seac@martinmartin.com

Welcome

Please welcome our newest members to SEAC:

Steve Horner (Professional Member)
HCDA Engineering

Jedidiah Williamson (Affiliate Member)
J.R. Harris & Company

Susan Jorgenson (Professional Member)
Leo A. Daly

Tara Yack (Affiliate Member)
KPF Consulting Engineers

Brian Damron (Affiliate Member)
Peak Engineering

Evan Hammel (Affiliate Member)
J.R. Harris & Company

Snow Load Committee

The Snow Load Committee has completed the Colorado Ground Snow Load Map and Report. This map is designed for use with the snow equations in ASCE-7.

Changes from the 1975 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 snow 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 relationship of snow depth to density.

GENERAL NOTES - *Keep them CLASSIFIED!*

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



We seek to hire talented structural engineers with 4+ 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.

Email or fax your letter of interest and resume' to:
Martin/Martin, Inc.
12499 W. Colfax Ave.
Lakewood, CO 80215
303-431-6100(p)
303-431-6866(f)



2008 SEAC Dues
Are.....DUE.

SEAC Dues need to be received by Monday, January 14, 2008.

Classified Adds Policy

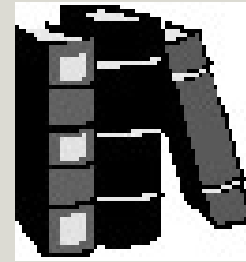
To place an ad please contact

Caryn Bauer at:

seac@martinmartin.com

Employment Ads must be kept to
100 (maximum).

The cost is \$100.00.



Publications For Sale

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
for order forms.