



MARCH GENERAL MEETING

3-Second Gust Wind Map

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

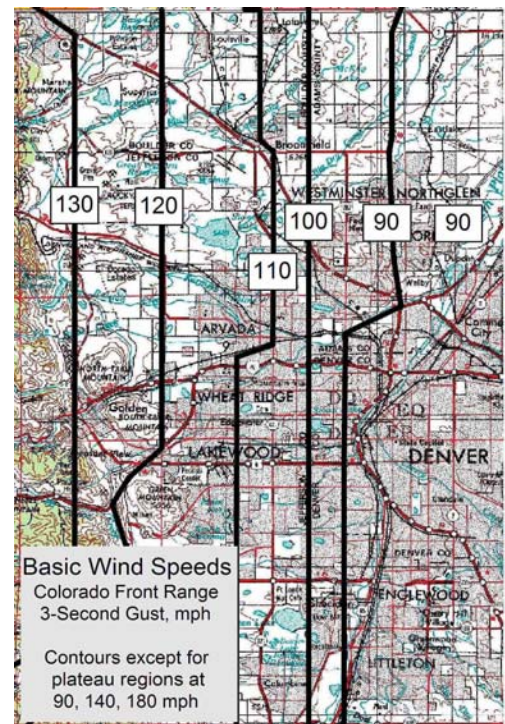
Annual Dinner Meeting

November 2
6 - 9 p.m.

Dr. Jon Peterka, PE, David Houdeshell, PE and Jeannette Torrents, EIT will present the Colorado Front Range 3-Second Gust Wind Map for SEAC adoption. The Front Range Wind Map applies to the special wind region identified in the IBC and ASCE 7 between the Continental Divide and the I-25 corridor and is designed for use with ASCE 7-02 or ASCE 7-05. The map is the culmination of an eighteen-month study analyzing data collected by the Colorado State Climatologist's Office and was presented to the Colorado Chapter of the International Code Council on December 9th. The complete report and map are available for review prior to the meeting at <ftp://co-map:map4u@ftp.cppwind.com>.

Dr. Peterka is a principal with Cermak Peterka Petersen, Inc, a wind engineering firm in Fort Collins, Colorado. His work in wind engineering includes membership on the committee that writes the national wind load standard, development of the standard's non-hurricane wind hazard map, consulting for the FAA on aircraft wind shear, and participation in a National Research Council report to Congress on

wind damage. He is a past member of the Board of Directors for the American Association of Wind Engineering (AAWE) and the chairman of an ASCE Standards Committee on wind-tunnel testing of structures. David Houdeshell, PE is a principal with JVA, Inc. and chairman of the SEAC Wind Committee. Jeannette Torrents is an engineer with JVA, Inc. and an active member of the SEAC Wind Committee.



Don't Miss Out - March General Meeting

Date: Thurs. March 16, 2006
Speaker(s): John Peterka, David Houdeshell, Jeannette Torrents
Location: Renaissance Denver Hotel
3801 Quebec Street (south of the I-70 and Quebec intersection)

Please e-mail your reservations to Caryn Bauer at: cbauer@martinmartin.com.
Reservations MUST be made By 12:00 noon on Monday, March 13, 2006.

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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

As a young boy I remember tracking the weather in the month of March as "Lion" and "Lamb" days, and seeing if the month truly came in as a Lion and left as Lamb. Based on the "buzz" I hear around town it appears that 2006 has come in a Lion for most of us. The majority of firms I talk with are busy and many are and have added additional staff. After a few years of slower economy it appears we are busy once again.

Busy and slow years each come with their own challenges. However, given the choice I think we know which of the two types of challenges we enjoy facing more. As the year progresses, SEAC is busily engaged in many projects designed to help improve our business and increase our individual endeavors.

This month's breakfast meeting is a great opportunity for all of us. The data being

presented at this month's breakfast meeting offers a great opportunity for all of us in that it has the potential to improve our design criteria development and coordination with local jurisdiction. The wind study document being presented has been sent out to all SEAC members in advance so that we can review it and provide the organization a vote of endorsement. I encourage everyone to attend.

As we continue through this busy year I hope we all recommit to embracing the services our industry provides by continuing to provide high quality document and consulting services to our clients.

Good luck as this year continues.



The July SEAC meeting has changed to Thursday, July 27, 2006 - Please update your calendars

Questions & Answers

Q: Is it always appropriate to consider a metal roof deck as a flexible diaphragm?

A: (Response for last newsletter's question)

Our last breakfast meeting addressed this issue very well. Unless the building system is very regular with lateral elements of regular spacing and rigidity it is often not appropriate to assume a steel roof deck is idealized as a flexible system. In the breakfast meeting an example was given where using the semi-rigid nature of the roof deck gave a much more favorable analysis of an existing condition. It is also possible that using a flexible diaphragm design approach could result in an un-conservative lateral load distribution. This could occur with a lateral system using a mixture of braced frames and moment frames. This is common in industrial buildings where there the exterior walls may have braced frames and moment frames are used in wide interior spaces. Distributing the lateral load based on tributary areas may result in significantly reduced loads at the braced frames. The rigidity of the braced frames will tend to draw load away from the adjacent moment frames.

New Question

Is AWS D1.1 the appropriate weld standard to reference for cold-formed framing such as exterior metal stud walls?

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



GUIDE: RECOMMENDED STANDARD OF PRACTICE

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

1999 Seminar Proceedings:

SUGGESTED LOCAL STANDARD OF PRACTICE IN THE PRECAST AND STEEL INDUSTRIES

Price: \$15

2001 Seminar Proceedings:

PRE-ENGINEERED TRUSSES: WHAT THE DESIGNER NEEDS TO KNOW AND SHOW

Price \$15

Contact Caryn Bauer at cbauer@martinmartin.com if you would like to purchase one of these publications.

GENERAL NOTES - *Keep them CLASSIFIED!*

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



We are seeking structural engineers with between two to five years experience in structural design of institutional, educational, commercial and residential buildings. Applicants must hold a BSCE or MSCE. Experience in steel, concrete, timber and masonry design is essential.

Applicants with an interest in architecture and design, combined with an ability to design creative aesthetic structural details, would be ideal.

Please send your resume via fax or e-mail (MS Word, PDF file or hypertext link).

Contact: Julian Lineham, P.E., President
TELEPHONE: (303) 558-3145
FAX: (303) 440-8536
E-MAIL:
jlineham@studionyl.com

For more information about us please visit www.studionyl.com



Jirsa Hedrick & Associates is a team of progressive, energetic professionals. We are looking for structural engineers and AutoCAD technicians with the vision and creativity to design innovative, cost effective structures. These individuals must be results oriented, have excellent communication skills and a desire to broaden their experience in a changing technical environment. If you work well with clients in a technically challenging environment and have three to five years of experience in the structural design of buildings, Jirsa Hedrick would like to hear from you.

We offer a competitive compensation package and substantial growth opportunities to qualified and motivated engineers and CAD technicians.

Applicants should e-mail a copy of their resume to: personnel@jirsaheadrick.com

Classified Adds Policy Statement

Last year the SEAC board of directors approved the inclusion of classified advertisements in the SEAC newsletter. Since it's approval, many firms have taken advantage of this opportunity. The adds provided in this month's newsletter are being included unedited as they have been written by the participating firms. The SEAC board of directors will be discussing this topic in the January Board of Directors meeting. We will be adopting content and size limitations for these advertisements. These limitations will be published to our membership prior to our next newsletter publication.



We seek to hire talented structural engineers with 0-6 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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12499 W. Colfax Ave.
Lakewood, CO 80215
303-431-6100 (p), 303-431-6866(f)
bnelson@martinmartin.com
www.martinmartin.com

Building Department Survey (Chair: Henry Lopez)

The committee is proceeding with data collection for the new building department survey. They are planning on a fall 2006 publication date.

Precast Liaison (Chair: Richard Mayta)

The committee last met on January 26th. It is considering three new topics for discussion: a review of precast concrete specifications, developing basic or standard precast details and preparing a checklist of important information that should be shown on structural drawings for projects that incorporate precast concrete.

Standard of Practice (Chair: Jim Ness)

The committee is planning to take up the topic of BIM modeling as it relates to standard of practice.

Steel Liaison (Chair: Bruce Wolfe)

The committee is wrapping up its study of the steel shop drawing process and will soon be publishing a report titled, "Suggestions for Improving the Steel Shop Drawing Process." Committee members Richard Huddleston and Bruce Wolfe presented a paper titled, "Steel Building – Exterior Wall Interface Issues", authored primarily by committee member Jeff Janakus, at the NASCC Conference in February. They also presented this talk twice to the RMSCA in January. The committee's next topic is tentatively planned to be floor levelness in steel buildings. The next committee meeting is March 7th.

Wind Loads (Chair: Dave Houdeshell)

Committee members Dave Houdeshell and Jeannette Torrents participated in the presentation by Jon Peterka of the Front Range Wind Gust Map Report at the Colorado Building Officials Conference in Colorado Springs last December. This program will also be presented at the March SEAC meeting.

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

Vendors Corner

Intumescent paint has never been a favorite product for many of us due to its problems with installation. Historically the required thickness of the paint has led to long application times and a sloppy appearance that has not been desired for exposed applications. At the recent NASCC, a vendor of intumescent paint illustrated how this has significantly changed with recent advancements. The required thicknesses are less, costs are lower and the appearance is no different than other types of paint, both solvent and water based paints are available. It may be time for us to rethink how we may use this product for fire-proofing applications in exposed areas. The vendor that illustrated these new products is listed below. They also provided the name of an engineer that lectures often on these products and that can be used as an additional resource.

Carboline

Contact Phone Number: 888-323-3473

Technical Assistance: Don Falconer

Contact Phone Number: 800-263-4087

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 at jr@sci-denver. Thank you.



MEETING NOTICE

“Maturity Method in Concrete Water Storage Construction”

Members and guests are invited to join us for a luncheon meeting of the Rocky Mountain Chapter ACI. The meeting will convene at The Red Lion Inn (near Invesco Field), 1975 Bryant Street, Denver, with a presentation by Kit Badger of Bates Engineering. Please consider bringing a guest whom could benefit from this presentation.

Date: Thursday, March 16, 2006

Place: The Red Lion Inn (near Invesco Field)

1975 Bryant Street, Denver

Parking is free and easy.

<http://www.redliondenverdowntown.com/home.htm>

Time: 11:30am - Registration

Noon - Lunch

12:30pm - Technical Presentation

Cost: Members: \$25 per person – Non-Members: \$30 per person.

ADVANCE RESERVATIONS REQUIRED.

Mail, Phone or E-Mail Registration to:

Flo Dubowitz

Rocky Mountain Chapter ACI

9291 East Oxford Drive

Denver, Colorado 80237

303-694-1166

E-Mail: phleaux@comcast.net

Please make your reservations by mail, phone or e-mail by Monday, March 13, 2006. INVOICING IS NO LONGER AN OPTION FOR PAYMENT—PLEASE BRING CASH OR A CHECK.

Please make checks payable to: **Rocky Mountain Chapter ACI.**

SAVE THE DATE: Friday, April 28, 2006, 35th Annual Concrete Awards Program, Adam's Mark Hotel
