



# SEAC

## GENERAL NOTES

Structural Engineers Association of Colorado Newsletter

## SEPTEMBER GENERAL MEETING

### Schedule

**Mark Your Calendar**  
(2007)

#### *General Membership Meetings*

(Breakfast 7:30 a.m.)

January 25

March 15

May 17

August 9

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.

### Nondestructive Evaluation of Masonry

**David B. Woodham, P.E.**, will give an overview of the nondestructive evaluation techniques used by his firm to evaluate masonry structures. Included in the presentation will be discussions of visual methods, surface hardness testing, ultrasonic and mechanical pulse velocity measurements, infrared thermography, surface penetrating radar, x-ray, metal location, and in situ masonry tests. The presentation will describe the application and limitations of the available methods to detect various conditions and anomalies.

David is Vice-president of **Atkinson-Noland & Associates**, a consulting engineering firm specializing in evaluation and repair of existing structures. He received his undergraduate degree in Architectural Engineering from CU Boulder and a master's degree in Civil Engineering from CU Denver. David is registered as a professional engineer in Colorado, Wyoming, Virginia and New York. He is active on the Masonry Standards Joint Committee and is a member of the Prestressed Masonry and Veneer, Glass Block, and Empirical Subcommittees. David is very interested in preservation issues and is a member of International Council

on Monuments and Sites (ICOMOS), National Trust for Historic Preservation, Colorado Preservation Incorporated and Historic Boulder.



### Don't Miss Out - September General Meeting

**Date:** Thurs. September 20, 2007

**Speaker(s):** David B. Woodham, P.E.

**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](mailto:seac@martinmartin.com).  
**Reservations MUST be made By**  
**12:00 pm - Monday, Sept. 17, 2007.**

## Officers & Board Members



Stan Neujahr  
President  
Neujahr & Gorman, Inc.  
303-377-2732  
stanneujahr@neujahrgorman.com



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



Elizabeth Jones  
Secretary  
KPFF Consulting Engineers  
303-865-5800  
elizabeth.jones@kpff.com



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



John Malcom  
Director  
Peak Engineering, Inc.  
303-274-0707  
jmalcolm@peakengr.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  
Lakewood, CO 80215  
(303) 431-6100 x400  
(303) 431-6866 fax  
bnelson@martinmartin.com

**WWW.SEAColorado.org**

*Information for inclusion in the newsletter must*

*Caryn L. Bauer*  
SEAC Executive Assistant  
seac@martinmartin.com

## President's Message

I am finding that; there is becoming a lack of experienced workers on construction projects. When I mention this to other design professionals they are quick to agree, and start to tell me stories of some of their similar experiences. When there are too many untrained workers on a job site, more direct supervision is necessary by the contractor to make sure that the plans and specifications are being followed. In many instances, the project superintendent also does not have enough experience to understand the intent of the design and expects the subcontractors to perform their portion of the work without the appropriate oversight and coordination expected of the general contractor. This has created a situation where the plans and specifications are not always followed because of a lack of understanding of the plans. In some cases the subcontractor builds what they envisioned should be built instead of what was intended to be built. Of course there are some very competent general contractors who do have experienced project managers and superintendents and they make our job easier.

Details that are not being followed are not discovered until and unless the structural engineer visits the site. At that point the burden is placed back on the structural engineer to either accept the way something was constructed or to provide a repair. The structural engineer then has to spend additional time investigating what was done to determine if it is acceptable or how it can be modified to make it acceptable. In either case the structural engineer is forced to accept something that is not what they intended and which

may be inferior to their original design. Heaven forbid the structural engineer expects the contractor to tear out the flawed work and construct it according to the approved plans and specifications. It is difficult to obtain approval for additional fees for extra work required to investigate the deviation from the original design, and often it is done at the expense of the structural engineer. Once the structural engineer accepts the way something was constructed or provides a repair, they are the ones who ultimately become responsible for the way the project was constructed and the contractor is off the hook.

As design professionals we should be able to expect that, if a contractor is licensed and they accept the responsibility to construct a building, as a minimum they understand the non-technical aspects of construction. Unfortunately, the lack of trained workers and experienced project superintendents is only going to become worse. Today, in this country, many more of the young people are going on to college to become managers and professionals; most of the others have no desire to work as hard as is required in construction. When the structural engineer goes to a job site and encounters lack of experienced workers or in-adequate supervision they should immediately contact the contractor and ask or better yet, demand that they rectify the problem. Unless the structural engineers put pressure on the contractors to provide the appropriate level of experience and supervision required on projects we can only expect things to remain the same.

# SEAC ANNUAL DINNER

## NOVEMBER 15, 2007

### **JOLLY DEMIS** The Complete Entertainer



With a name like Jolly, he has to be good – or at least happy!

Jolly Demis earned his namesake the day he was born. "This is the jolliest baby I've ever delivered," the doctor said. Starting his entertainment career as a singer songwriter, Jolly's career began as the leader of many successful bands that performed nationally. Always a bit of a jokester and looking for the funny stuff in life, he started interacting with the audience.

Eventually going solo, Demis evolved into more of a comedian than a musician. Within a few years, Jolly began to establish not only a Colorado following but also began to sprout a national reputation for his hilarious live performances. Before long, Demis was on the fast track to fame, opening for the Kingston Trio at the legendary Copa Room at the Sands Hotel on the Las Vegas Strip!

Jolly incorporates both music and comedy in his shows, as well as an uncanny ability to involve any audience in the act. Whether opening for various heavyweights such as **Lee Greenwood**, **Mario Lopez**, **Three Dog Night**, **Bill Engvall** of the Blue Collar Comedy Tour, and "NYPD Blue" and "La Bamba" star, **Esai Morales**, or headlining nationally, Demis' comedic versatility and showmanship make him the consummate entertainer. When Jolly's not making corporate America laugh, he still finds time to lend his talents to worthy causes such as Children's Hospital, Race for the Cure, Special Olympics and the Cystic Fibrosis Foundation.

Jolly's songwriting and musical talent are evident in television jingles heard on stations from coast to coast. He can also be seen on the Golf Channel hosting a new infomercial with World Record Long Driver, Jack Ham and PGA all time great, Al Geighberger.

His list of credits aside, Jolly is at his creative best during live performances, in which he wastes no time endearing himself to every audience. The spontaneous songster has the unique ability to find hilarity in all aspects of life and enable audiences to laugh at themselves with him.

"Jolly Demis sounds like the name of a clown or maybe even a candy bar. But there's nothing clownish or too sweet about Demis, a man of considerable talent when he uses his voice, guitar, and comedy repartee with the audience." (Walter Saunders, Rocky Mountain News.)

**Find out what Corporate America is laughing about!**

We hope to see everyone at the Annual Dinner. This will be a GREAT evening of Fun and Laughter. More details to come.



# GENERAL NOTES - *Keep them CLASSIFIED!*

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



**FAY ENGINEERING CORP.**  
CONSULTING ENGINEERS

The Fay Engineering Corporation – A Leader in Forensic Engineering since 1971 - has an immediate opening for a Structural or Architectural Engineer. The successful candidate will consult with insurance adjusters, attorneys, contractors and building owners on various litigations, claims, damage evaluations and remediation.

Do you enjoy interacting and building relationships with clients?

Can you work independently and manage multiple tasks?

Are you ready to take control of your career?

If you answered "Yes" to these questions ... Please visit our website for requirements and details [www.fayengineering.com](http://www.fayengineering.com)

Email cover letter and resume to [wmh@fayengineering.com](mailto:wmh@fayengineering.com) or fax to 303-329-5209.

**Parametrix**  
*Consulting*

Parametrix, a premiere engineering, planning and environmental sciences consulting firm is seeking a full-time **SENIOR BRIDGE ENGINEER / PROJECT MANAGER (#DNV703)** to join our **Denver, CO** office. The successful candidate will be proficient in the structural design of bridges and transportation structures including the preparation of calculations, plans, specifications, and cost estimates; business development; client management; and project management of design work on bridges and structures. Candidates will have: BSCE; PE license; 10+ years progressive experience in design and analysis using AASHTO / CDOT (or equivalent) standards; and committed to managing/mentoring junior staff and project teams. Apply online at: [www.parametrix.com](http://www.parametrix.com)

## **Classified Adds Policy**

To place an ad please contact  
Caryn Bauer at:

[seac@martinmartin.com](mailto:seac@martinmartin.com)

Employment Ads must be kept to  
100 (maximum).

The cost is \$100.00.



**Western Engineering & Research Corporation (WERC)**, regarded by clients for effective forensic investigations and by employees for its team atmosphere and opportunities for growth is seeking an experienced structural engineer.

Successful candidates will have a BS or MS, PE or SE, be proficient spoken and written communicators, team players and problem solvers who demonstrate professionalism. Diverse and challenging projects encompass site investigations, analysis, design, report writing, and expert testimony.

WERC offers a competitive salary and benefits package, growth opportunities, and potential leadership role. Send your letter of interest and resume [employment@werc.com](mailto:employment@werc.com) or fax to 303-757-4222. For more information, visit [www.werc.com](http://www.werc.com).

# GENERAL NOTES - *ANNOUNCEMENTS*

**SEPTEMBER SPONSOR:**  
**ALPINE SITE SERVICES, INC.**  
**THANK YOU**



Alpine Site Services, Inc. manufactures, installs and load tests steel pipe screw piles, a proven alternative to conventional deep foundations. Engineered screw piles are currently being used worldwide to support loads up to 500 kips per pile. Alpine's screw piles install much faster than other deep foundation systems, regardless of site, weather or soils conditions. Alpine's unique load test system allows for full-scale, on-site load testing of pile capacities up to 600 kips (ultimate load). The ability to provide high-capacity, on-site load tests, coupled with our patent-pending torque data-logging system, ensures that production piles meet project specifications. With our "owned" transportation fleet, Alpine is able to offer services for projects anywhere. Working closely with both the General Contractor and the Engineer of Record, affiliated Structural and Geotechnical consultants make the change from conventional deep foundation design to screw piles smooth and successful.

Sales contact:  
Mike Oliveira  
303-994-3131 cell  
mike@alpinesites.com

## **AUGUST BREAKFAST MEETING**

We were pleased to have one of our members, **John Hanlon**, as a speaker at the August meeting, along with others from **Rocky Mountain Prestress**. The topic was Precast Rib Slab Framing and focused on the use of this system, as well as Precast Segmental Cores, for the Westin Resort project in Avon. John Hanlon, Director of Engineering, was assisted in the presentation by **Mike Hemberger**, preconstruction services, with Rocky Mountain Prestress.

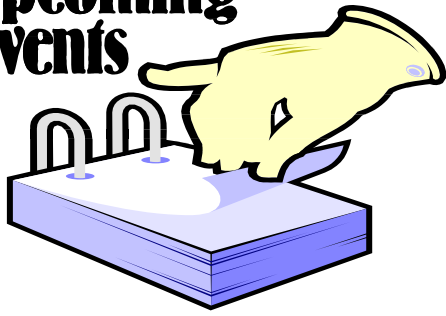


## **THANK YOU - Boise Cascade for Sponsoring the August SEAC General Meeting**



# GENERAL NOTES - ANNOUNCEMENTS

## Upcoming Events



Watch for details on the SEAC  
Fall Seminar, scheduled for  
**October 25, 2007.**

Topic: ATC-45



### **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**

PRICE: \$25.00 (IF YOU ATTEND LAST  
YEAR'S SEMINAR)

UNIT PRICE: \$50.00

CD: \$100.00

Contact Caryn Bauer at  
seac@martinmartin.com for order  
forms.

## Welcome

Please welcome our newest members to  
SEAC:

**Robert Alson** (Professional Member)  
City & County of Denver

**Kay Krebs** (Professional Member)  
City & County of Denver

**Degan Hambacher** (Professional Member)  
FDG Incorporated

**Miriam Bourquin** (Affiliate Member)  
Anderson & Hasting

**Shane McCormick** (Professional Member)  
Martin/Martin, Inc.

**Brian Kirtland** (Professional Members)  
JVA Inc.

**Brett Robinson** (Affiliate Member)  
JVA, Inc.

**Adam Tschida** (Affiliate Member)  
Kleinfelder



***Rocky Mountain Chapter ACI Presents***  
**Shoring & Re-Shoring of  
Multi-Story Buildings**

**Dennis Kenley, Baker Concrete, *Formwork Designer***

*Mr. Kenley holds an Associate Degree from ITT Tech and has been with Baker Concrete for seven of his eleven years of experience. The Rocky Mountain Chapter of ACI is committed to quality programming that will provide the most up-to-date technical information and education related to the industry. We hope you will plan to join us.*

**Date:** Thursday, September 20, 2007  
**Time:** 5:30pm Registration  
6:00pm Dinner Buffet (Cash Bar)  
6:30pm-8:30pm Technical Presentation  
**Place:** The Red Lion Inn (near INVESCO Field)  
1975 Bryant Street, Denver. Parking is free and easy.  
<http://www.redliondenverdowntown.com/home.htm>  
**Cost:** Members.....\$30 per Member  
Non-Members.....\$35 per person  
Students Members ....FREE

**RSVP: Deadline: September 17, 2007**

**REGISTRATION**

Call 303-694-1166 or E-Mail: [phleaux@comcast.net](mailto:phleaux@comcast.net)  
Mail Check to: Flo Dubowitz, Rocky Mountain Chapter ACI  
9291 East Oxford Drive, Denver, Colorado 80237

Company \_\_\_\_\_ Phone \_\_\_\_\_

**List Names of Attending (check if member):**

\_\_\_\_\_ Member? \_\_\_\_\_ Member?  
\_\_\_\_\_ Member? \_\_\_\_\_ Member?

Method of Payment ☐ Cash ☐ Check ☐ Credit Card (provide information below)

CREDIT CARDS WILL BE ACCEPTED **ONLY IN ADVANCE** BY MAIL, PHONE  
OR FAX (FAX 303-655-7536)

(FOR SECURITY REASONS, DO NOT E-MAIL CREDIT CARD INFO)

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Billing Address \_\_\_\_\_ C/S/Z \_\_\_\_\_

Telephone Number Credit Card: ☐ Visa ☐ MasterCard Amount \$ \_\_\_\_\_

Card # \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Security Code: \_\_\_\_\_