



President's Letter

As I sit down to write this letter, I am seeing the first snowflakes of the fall season. To most, this is the time for apple picking, Halloween costumes, and foliage. To structural engineers, the signs of the season are seen in the race to get "into the ground" before the frost. Hopefully, the change in seasons has brought more business to our community.

I had the unfortunate role recently of closing portions of an elementary school due to structural concerns. The brief story is that several tall masonry walls were built, unreinforced, and had progressed freeze-thaw deterioration. Several things about the situation were striking to me. (note – by all accounts the EOR and AOR have long since retired and may have already celestially departed.) First, the building was constructed in 1991 and was designed with woefully insufficient reinforcing, namely none. Second, the materials, well known to have freeze-thaw susceptibility, were approved by the design team during construction. (We can't blame this on the con-

tractor.) Third, who in their right mind would think that an unreinforced 6-inch masonry wall can be built 15-feet tall? A resident asked me, "How could this happen?". I still don't know the answer. It's likely that the Engineer and Architect were in the twilight of their careers and had not been made aware of new building code requirements and new thinking in building design in general, circa 1991. What makes me feel better is that it is probably less likely to happen today? I hope.

The Continuing Education requirements of New Hampshire's Licensing Board and other state's licensing board are burdensome at times. And sometimes I go to a conference and I feel like the only thing I got out of it was the Professional Development Hours (PDHs). However, there are some conferences or courses that I have attended that have been immensely educational and important to my professional development. Dr. Tim Mays course on diaphragm design is one that comes to mind. I like to think that if this school was being designed today,

any one of SENH's engineers would have done a better job.

It is with this situation in mind that I am reinvigorated for the upcoming SENH dinner meeting topics. I hope you all can attend our November meeting in Manchester where we will hear about the renovation of another unreinforced masonry structure, the Pandora Mill Building. It will be a joint meeting with NHSPE. I hope to see you there.

Tony Coviello, P.E., S.E.
SENH President

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Special Points of Interest/ Reminders:

- *The next SENH Meeting is November 17, 2009 . See inside for details.*
- *Nominations for Engineer and Young Engineer of the Year are due—See Page 2 for more information.*

NCSEA Annual Conference, Scottsdale Arizona

Bob Durfee, Delegate and Alex Azodi, Alternate Delegate attended the annual conference representing SENH. The conference was held on Thursday, October 15th to Saturday, October 17th at the Radisson Hotel and Conference Center on the Yauapai Nation Indian Reservation in Scottsdale, Arizona. Bob and Alex attended several of the Committee meetings and business meetings. Several important business issues covered at the conference were; Specialty Licensing for Structural Engineers, Code of Ethics, changes procedures for the 2012 IBC Code, and the NCEES 16 hours structural exam status. Technical issues and presentations covered steel bending/fabrication, forensic engineering and the I-35W bridge collapse in Minneapolis.

Bob and Alex will provide a brief summary of their activities on the conference at the November 17th membership meeting in Manchester and prepare a detailed conference summary report that will be posted on our website in late November.

NCSEA Advocacy Committee - Promotional Posters

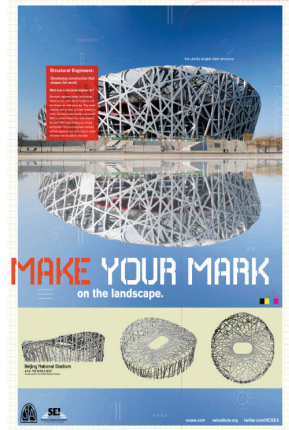
submitted By Robert Durfee, P.E., SECB

The NCSEA Advocacy Committee is again organizing a campaign to place promotional posters about structural engineering in middle schools and high schools. This campaign has been very successful the last five years. The goal is to continue our success for this year. The Committee has prepared a new and revamped poster for this year.

The objective is to place promotional posters in physics, chemistry or math classrooms, libraries or in guidance counselor offices at local middle schools and high schools. This year SENH has obtained 30 posters, and hope to place all posters in our local schools. Last year, through the efforts of many of our members, we were able to distribute 33 posters.

If you are interested in assisting with placing posters in your local schools, libraries, etc., contact our NCSEA Delegate, Bob Durfee @ rdurfee@dubois-king.com.

More information about this program, volunteering, and targeted schools in New Hampshire will be provided to the membership in November via email.



Engineer & Young Engineer of the Year Nominations

SENH is seeking nominations for the Engineer and Young Engineer of the Year Awards. Nomination suggestions should be made to the Board without informing the nominee. Application packages are done without the knowledge of the applicant. SENH has a long history of winners for these awards. This shows how truly involved are membership is in the advancement of the profession and personal achievements of our members. Please talk to a board member if you have someone to suggest.

NH Joint Engineering Society Update

SENH, along with five other NH Engineering Organizations, recently signed a Partnering Agreement which formalizes the Mission, Procedures and Activities of the NH Joint Engineering Society (NHJES) (a copy of the agreement is available online at <http://www.nhjес.org/>). The NHJES mission is to provide education, leadership and support for the profession of Engineering across all disciplines of practice. The NHJES organizes and runs the annual New Hampshire Joint Engineering Societies Conference, maintains the New Hampshire Engineering Calendar (<http://www.nhecal.org/>) and provides Administrative Support for the Engineers Week activities. The group is currently beginning planning for next year's Joint Engineering Societies Conference and exploring other ways that the organizations can pool resources to the benefit of all groups.

New Members, Associate Members & Student Members

SENH is proud to welcome the following new Members, Associate Members & Student Members:

Associate Members:

- ◇ Christopher Robert, SEA Consultants

Student Members:

- ◇ Richard Emberley, Worcester Polytechnic Institute

SENH NOVEMBER MEETING ANNOUNCEMENT

NEXT MEETING: **Joint SENH/NHSPE Meeting**
Tuesday, November 17, 2009

PRESENTATION: ***Historic Pandora Mill Restoration Project*** - Presented by Mr. John S. Jordan, AIA, LEED AP, Jordan Design, PLLC – Architects with Mr. Peter Steffensen PE, Steffensen Engineering.

This project plans to restore the landmark 144,000 square foot Pandora Mill, part of the historic Amoskeag Manufacturing complex, into a mixed use and/or office facility along with development of structured parking on two adjacent City-owned parking lots (to be conveyed to developer).

The presentation will focus on the many challenges involved in turning a derelict historic building into modern usable space.

PLACE: Fratello's Restaurant
155 Dow Street
Manchester, NH 03101
(603) 624-2022

DIRECTIONS: Take I-293 to Exit 5 (Granite St/ Downtown). Take a left at the bottom of the off-ramp if you are coming from the north, or a right at the bottom of the off-ramp if you are coming from the south. Take a left onto Commercial St. at the first traffic light. Follow Commercial St. for approximately ¾ mile and you will see the Fratello's sign on the right. Turn right just before the sign and left at the stop sign to enter the parking area.

AGENDA: 5:30 pm-6:30 pm Registration/Social Hour
6:30 pm-7:30 pm Dinner
7:30 pm-8:30 pm Business News/Speaker

DINNER: Entrée Choice: Prime Rib Au Jus or Broiled Haddock **Special dietary needs can be accommodated by contacting Loretta DeMarco – Director of Sales at 603-641-6776 or by email at banquets@fratellos.com.*

COST: Member: \$40.00 Non-Member: \$45.00 Full Time Student: \$10.00

RSVP: by Friday, November 13, 2009 with **MEAL CHOICE**.

Please send check payable to “NHSPE November Meeting ” with list of attendees to:

NHSPE November Meeting
c/o Martha Mitchell
Terracon Consulting, Inc.
77 Sundial Ave., Suite 401W
Manchester, NH 03103
mmitchell@terracon.com

NOTE: 1.0 PDH has been assigned for attendance to this program. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the meeting.

SENH September 22, 2009 Meeting Minutes

Business Portion of the Meeting

I. BUSINESS PORTION OF MEETING:

The business portion of the meeting was started by Tony Coviello, P.E., President of SENH. This meeting was a joint meeting with the New Hampshire Chapter of the ASCE and he thanked both groups for the good turnout.

1. SENH Member Registration Update Request. T. Coviello requested that all SENH members review their P.E. license listing on the SENH website and update them as necessary. SENH is reviewing the potential benefit for having course or meetings pre-approved in states that require this.
2. Structural Note Group. The idea of having a group work on standard plan notes was discussed. Please let T. Coviello know if there is any interest.
3. Ed Bergeron Book. SENH Vice President Ed Bergeron, P.E. has published a book titled "A Pocket Guide to Business for Engineers and Surveyors". A complimentary copy of the book was presented to the youngest engineer in attendance.
4. NCSEA Conference. The annual NCSEA conference will be held from October 15-17 in Scottsdale, AZ. SENH delegates Bob Durfee, P.E. and Alex Azodi, P.E. will be attending the conference.

T. Coviello introduced Jason Ayotte, P.E., president of the NH Chapter of ASCE. J. Ayotte discussed the following:

1. Thank you. J. Ayotte thanked SENH for continuing to hold a joint meeting on an annual basis. He also thanked SENH Administrative Assistant Deb Coon for all her assistance with setting up last year's joint meeting.
2. 2011 Younger Member Conference. ASCE-NH has partnered with ASCE-ME to host the 2011 ASCE Younger Member Conference.
3. Committee Members. ASCE-NH is looking for members to serve on several committees.
4. ASCE Historic Civil Engineering Landmark Designation. ASCE-NH is working on a nomination of the Memorial Bridge in Portsmouth as a National Historic Landmark.
5. NH Tech Fest. ASCE-NH is looking for 6-12 younger members to assist with a booth at the NH Tech Fest.

Concrete Mix Design, *by Brian Barry, Technical Sales Engineer for Dragon Products Company*

II. TECHNICAL PRESENTATION:

Mr. Barry made a Powerpoint presentation on concrete mix design and chemical and mineral admixtures. A copy of the presentation is available on the SENH website (www.senh.org). A brief summary of the presentation follows:

1. Mix Design. Mix design must balance strength, durability, workability and economy.
2. Absolute Volume Method / Code Requirements. The absolute volume method was discussed as it relates to mix requirements. Mix requirements for water/cement ratio, sulfate resistance and code testing requirements were discussed.
3. Mix Ingredients. The concrete mix consists of cement, water, coarse aggregates, fine aggregates and admixtures. The coarse aggregates are sized based on reinforcing spacing and pumping requirements. The water demand of the mix is influenced by many factors and can be assisted with water-reducing admixtures that allow for a 5-30% water reduction.
4. Admixtures. A variety of admixtures are available for air entrainment, water reduction.
5. Supplementing Cementing Materials (SCM). SCM's include fly ash, pozzolans, metakaolin, silica fume and slag. SCM's can improve the concrete by reducing permeability and heat of hydration, increasing strength and improving workability. The use of SCM's can also qualify for points in LEED projects.
6. Trial Mix. A trial mix with calculations was presented and adjustments in the mix discussed to improve the design.

2.0 PDHs for the technical presentation were earned by attendees. Respectfully submitted by Sean T. James, P.E., SECB, Secretary, SENH

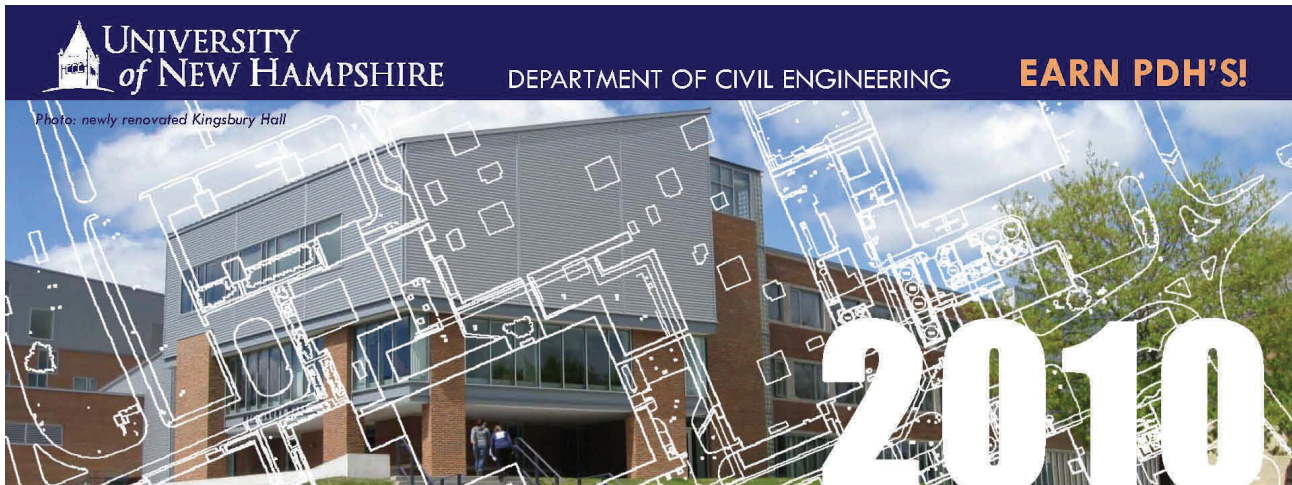
Attendance List

Concrete Mix Design, Chemical Admixtures & Mineral Admixtures

The Derryfield Restaurant (2.0 PDHs)

September 22, 2009

Name	Organization	Name	Organization
Dana Michael Adams, P.E.	Opechee Construction Corp.	Kayla Hampe	University of New Hampshire
Matthew Allen, P.E.	JSN Associates, Inc.	Scott Harmon	S.W. Cole Engineering, Inc.
Jason Ayotte	Vanasse Hangen Brustlin, Inc.	Sean James, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Alex Azodi, P.E., SECB	Omega Structural Engineers	Logan Johnson	Golder Associates Inc.
Brian Barry	Dragon Products Company	Heather Jones	University of New Hampshire
Shannon Beaumont, P.E.	CLD Consulting Engineers, Inc.	Roger Keilig, P.E.	HTE Northeast, Inc.
H. Edmond Bergeron, P.E., SECB	HE Bergeron Engineers	Jon Kuel	
Steve Berlo	Headwaters Resources	Dennis R. LaBombard, P.E., SECB	LaBombard Engineering, LLC
Dave Bissonnette	Redimix Companies, Inc.	Aaron M. LaChance, P.E.	Stantec Consulting
Jason Blais, P.E.	Opechee Construction Corp.	Thomas E. Lamb	TFMoran, Inc.
Scott Bourcier, P.E.	Dubois & King, Inc.	Gary Lemay	
Jay H. Brown, P.E.	Structural Systems, Inc.	Jonathan M. Longchamp, P.E., SECB	Daigle Engineers, Inc.
Tim Bryant	Vanasse Hangen Brustlin, Inc.	Josh Lund, P.E.	Stantec
Robert S. Busby, P.E.	Kalwall Corporation	Thom Marshall, P.E.	S E A Consultants Inc.
Robert R. Bussiere, P.E.		John Maynard, P.E.	Maguire Group Inc.
John Byatt, P.E.	CLD Consulting Engineers, Inc.	Donald F. Mayo, P.E.	Donald F. Mayo, P.E.
Timothy J. Cady, PE	Charter Environmental, Inc.	Andrew Michaud	S.W. Cole Engineering, Inc.
Scott M. Carter	Terracon	Chad B. Michaud, P.E.	S.W. Cole Engineering, Inc.
Robert Champagne, P.E., SECB	Summit Engineering	Mike Mozer	Vanasse Hangen Brustlin, Inc.
Christopher A. Ciocci, P.E., S.E.	Stahlman Group	Jeffrey S. Nawrocki, P.E.	JSN Associates, Inc.
Robin A. Collins P.E., LEED AP	PMA Consultants LLC	Linda McNair-Perry, P.E.	SFC Engineering Partnership, Inc.
Lou Cote	Steffensen Engineering Assoc., Inc.	Rick Pullin	
Normand G. Cote, P.E., SECB	NGC Structural, LLC	Martin Risley	CHA
Tony Coviello, P.E.	Summit Engineering, PLLC	Chris Robert	S E A Consultants Inc.
Mike Croteau	S E A Consultants Inc.	Kyle Roy, P.E.	TFMoran, Inc.
Edward F. Decelle	Structural Systems, Inc.	Hossein Salehkhrou, P.E.	JSN Associates, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Hugh C. Scott IV, P.E.	Advanced Drainage Systems/Hancor
Gordon M. Edington	Vanasse Hangen Brustlin, Inc.	Michael J. Sievert, P.E.	MJS Engineering, P.C.
Donald Ellison	Aggregate Industries	Jesse Sipple, EIT	
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	Peter Steffensen, P.E., SECB	Steffensen Engineering Assoc., Inc.
Tim Foy	FMC Technologies	Kirk L. Stenersen, P.E.	Higher Design, PLLC
Jaime French, P.E.	CLD Consulting Engineers, Inc.	Roger M. Thibodeau, P.E., SECB	Twin State Engineering
Jeffrey L. Garnett	MJS Engineering, P.C.	Benjamin E. Tirey, P.E., SECB	Str. Eng Consultant
Greg Goodrich	Vanasse Hangen Brustlin, Inc.	Jeffrey L. Tirey, P.E., SECB	Tirey & Associates, P.C.
Matt Grady, P.E.	R.W. Gillespie & Associates, Inc.	Jeffrey S. Trexler, P.E.	Trexler Engineering
Marc Grenier, P.E.	R.W. Gillespie & Associates, Inc.	Andrew D. White, P.E.	CCS Constructors, LLC
Sally Gunn	Vanasse Hangen Brustlin, Inc.	Erik J. Wiberg, P.E.	R.W. Gillespie & Associates, Inc



Bridging education and experience.

Friday, April 30th and Saturday, May 1st, 2010

We invite you to join us on April 30 and May 1, 2010 for the first UNH Department of Civil Engineering Alumni Conference. Please save the date!

The Conference will be a forum for alumni of the Civil Engineering Department to return to UNH and share with students and faculty their experiences, including professional project work, research, and/or other notable career achievements since leaving UNH. The Conference will also provide a collegial forum for alumni to hear from, and interact with both students and faculty.

The Conference will include formal presentations, as well as less formal panel and roundtable discussions, with topics across the breadth of civil engineering. Social activities and a celebratory Friday night reception and banquet are also planned. Please check back as we will periodically provide updates on this page.

A "call for presentations" announcement is anticipated to be out in November. Initial questions can be sent to unhconference@sanbornhead.com.

The Conference is being co-sponsored by the Department's Industrial and Student Advisory Boards. We look forward to seeing you in 2010!

The UNH Civil Engineering Alumni Conference Committee:

- Charles L. Head, P.E., P.G. – Chair
- Jean Benoit, Ph. D., - Faculty Chair
- Meagan Wengrove, E.I.T. – Student Chair
- Marya Gorczyca, P.E. – Programming
- Stephen Ransom, L.S.P. – Budget
- Duncan Mellor, P.E. – Facilities
- Kent Walker, E.I.T. – Student Representative for Conference Logistics

A Message on Behalf of the Students of the Department:

Dear UNH Civil Engineering Alumni:

As a current student here at your prior "home" I would like to take this opportunity to invite you to the UNH Civil Engineering Alumni Conference. If you remember back to your days at UNH and wandering the halls of Kingsbury, I think you can remember thoughts of "what do I do after I graduate," and "how did all of those UNH civil students before me make it through their program," and "what are they all doing with their lives?" cross through your mind. Well today, although the halls of the newly renovated Kingsbury are only three years old the civil students still have those same thoughts that you did!

As a student body we would be very interested and intrigued to hear what you have been doing for the years since you graduated from UNH. We also are excited to show you what we are up to now! Students here are more interested in their options and opportunities in their future careers than many other topics, please come and help us celebrate being a Wildcat as we learn together about what you have been up to, what we are doing now, and what your colleagues and former classmates are doing with their careers today. So, PLEASE save the date and make the UNH Civil Engineering Alumni Conference a great end to your April and beginning to your May!

I hope to see you then!

- Meagan Wengrove, E.I.T.

UNH Civil Engineering Department Student Advisory Board Chair

More information and call for presentations to follow. Visit www.unh.edu/civil-engineering for a link to more information and updates.

Additional Meetings & Conferences

Working with the Joint Engineering Societies Committee, NHSPE has developed a "NH Engineering Calendar" (www.nhecal.org) where all societies can post events. The intent is to have a single site where upcoming events for all societies are listed. If you would like to post an event, please email the details to info@nhspe.org.

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**P.O. BOX 226
MANCHESTER, NH 03105-0226**

WWW.SENH.ORG



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