



President's Letter

Happy New Year! By the time you get this newsletter, it will most likely be January 2009. I hope that you have all enjoyed the holidays and are starting a very successful year. The holiday season was the perfect time of the year to take a little time off and spend with family and friends, and hopefully reflect on what is important in life. This year some of us may even have a little more free time due to the uncertain economy. These uncertain economic times may actually provide a good incentive to reassess our business practices and relationships, and to work on ways to establish loyal clients who are also friends.

Fortunately, the SENH, as an organization, is in a healthy financial situation and is able to move forward with its various current plans and programs. However, as it is the mission and goal of this organization to best serve its members and the profession of structural engineering, the board is always looking into other ways to have more and better programs at lower costs to you, our members. One way the board

hopes to achieve this is by authorizing the Professional Development Committee (PDC) to look into sponsorship of our membership dinner meetings. Sponsorship will provide a way to fully or partially subsidize the meeting cost or use the sponsorship funds to provide for other SENH activities or low-cost seminars. I have attended other professional organizations that have provided a table at their dinner meeting for the sponsoring organization whose products or services are of direct interest to the profession. This allows the sponsoring organization to display its materials and to have one on one interaction with the attending members. Additionally, a brief period, usually 5 to 15 minutes, may be allocated to the sponsoring organization to allow them to talk about their product or service. I would very much like to hear your opinion about this idea for the SENH meetings. Please talk with me, or any of your board members, about this idea or any other suggestions you may have for meetings.

Also, we have added two more volunteers-Bill Hickey and Jeffrey Karam to the PDC to help Sean

James (chairman) with this demanding task and to bring balance to the committee. If you would like to see a specific seminar topic or know of a business who might be interested in sponsoring one of our meetings, please contact Sean. If you are interested in joining any of the committees or help in any ways please contact the respective chairman or any of the board members.

Recently, I was involved in the initial discussions between the New England area Structural Engineers. Thanks to Bob Durfee, who has been the driving force in getting this discussion organized, we talked about the possibility of forming a New England Council of Structural Engineers. The main reason for forming this group is to have a stronger voice for the structural engineers of this region and to enable a better sharing of resources. Bob and I will keep you updated.

To a prosperous and peaceful New Year - Alex

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Special Points of Interest/ Reminders:

- The next SENH Meeting is January 20, 2009 . See inside for details.
- SENH DUES DUE JANUARY 31, 2009—See inside for your renewal form.

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 four years. The goal is to continue our success 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 40 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 40 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 January via email.

NCSEA - New England Coalition of Structural Engineers Associations

At the annual NCSEA conference in Cleveland, the delegates from the six New England Member Organizations met informally and decided to explore the formation of a New England group that would improve communications between the Organizations, share information and data relevant to Structural Engineering in New England, and to arrange for joint meetings with adjoining states and originations, and share in bringing national speakers to our meetings and seminars.

The first teleconference meeting was held on December 9, 2008. All six (6) Member Organizations from New England participated in this teleconference. SENH was represented by Azodi and Bob Durfee.

The group agreed to create an informal organization called the **New England Coalition of Structural Engineers Associations**. A permanent representative from each Member Organization will be appointed and attend meetings.

NCSEA Winter Institute

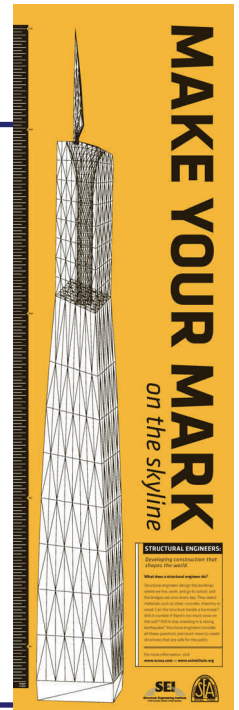
The 2009 Winter Institute on Wind Engineering in Miami, Florida on January 23rd and 24th is only one month away. Sign up now at [Winter Institute 2009](#).

You won't want to miss this opportunity to learn about wind engineering topics from buildings and sport facilities to bridges and towers, especially since the program includes a tour of the RWDI Wind Tunnel Testing Lab on Friday.

For more details or to register for a package click here [Winter Institute](#). Priced at \$350 for one day or \$595 for two days, this is a program you cannot afford to miss. The two-day program provides a total of 15 professional development hours, Diamond Reviewed and accepted in all 50 states. The total of [15 hours also applies to 'Category A' SECB recertification hours](#).

2009 Dues Renewal

It's that time of year again. This year SENH is proud to announce that there is no increase in dues and remains at \$50.00 for Members and Associate Members. Also, for any current FULL TIME Student Member the renewal fee of \$15.00 is being waived. Simply fill out the renewal form and mail it in to the address provided. A renewal form is included in this newsletter and can also be found at the SENH website.



New Members, Associate Members & Student Members

SENH is proud to welcome the following new Student Members:

Student Members:

- ◇ Noah Chingburg
- ◇ Mary Ferguson
- ◇ Krystian Kozlowski
- ◇ Ryan Mitchell
- ◇ Christopher Montigny

NH State Code Review *Submitted By Joel Fisher, P.E.*

Little of interest to structural engineers has taken place at the NH State Code Review Board meetings of late. Donald Bliss is now the chairman of the Board. The Board held a public hearing for and voted to adopt Appendix C-Group U Agricultural Buildings of the IBC during the November 14, 2008 meeting. New Board members Timothy Dupont, representing the Plumbers Board, and Cheryl Killam representing the Governors Commission on Disabilities, were welcomed. HB 1571, relative to inspection and construction or alteration of publicly accessible buildings for compliance with accessibility standards; and proposed amendments to RSA 155 were discussed. The Board provided input on the proposed bill and amendments. The Board did not believe the bill would achieve the desired result of greater compliance with accessibility standards. Also discussed during the meeting was the proposed adoption of Appendix E-Supplemental Accessibility Requirements of the IBC. Discussion relative to Appendix E was continued to the next meeting. The Board has been revamping the FAQ section of the website to make it clearer and more informative. Additional information on the Boards activities can be found at

<http://www.nh.gov/safety/boardsandcommissions/bldgcode/index.html>

Prior to the November 14 meeting, I suggested adoption of snow load requirements as part of the State Building Code. The Board voted to recommend the CRREL report in the FAQ section of the Boards website, and did not want to adopt the snow load study to be part of the Code. The language in the FAQ section will be as follows:

· **Has NH adopted a snow load standard that is different than required in the International Building Code?**

No. Due to the lack of snow load data in the IBC and IRC for most NH towns, the Board voted to recommend the Cold Regions Research and Engineering Laboratory ERDC/CRREL TR-02-6 Ground Snow Loads for New Hampshire, US Army Corps of Engineers, as published in February 2002, be utilized as a standard. The report provides a compilation of case studies performed as required by, and in accordance with the IBC, for every town in NH. Acceptance of an alternative method of snow load determination is subject to the approval of the local jurisdiction. (Note - insert link to report)

The SENH Board is going to discuss the possibility of proposing an amendment requiring the use of TR-02-6. Please contact a Board member if you have an opinion on the matter.



The UNH students have been doing a lot more than selecting steel for the ASCE/AISC Student Steel Bridge Competition. They are a motivated group devoted to improving upon the university's showing in the 2008 event, which was hosted in their own Whittemore Center. The students have UNH professor Dr. Erin Bell in place as their official advisor and additional support from other professors working with them and reviewing their progress. Rebekah Briggs and I have taken turns attending some of their meetings in Kingsbury Hall to help provide some experienced guidance to their project as well as grimace at anything that looks potentially unsuccessful or dangerous. While ideas and designs come solely from the students, we are allowed to offer suggestions to be mindful of things like buckling in compression members or shear stress in webs.

To this point they have determine their structure layout, the member types that make up their structure and an approach to the connections. The connections will be plentiful; no member of the structure can exceed twenty pounds and each must fit into a box with inner dimensions of 42"x6"x6". For a twenty-foot span bridge that's a lot of pieces! They also have an electronic three dimensional drawing of their bridge.

The students reached their fall semester goal, which was to have their structure type and members figured out by the winter break. Design and fabrication awaits them in the spring semester, which will include learning some new modeling software and completing countless welds. Now that they have become more acquainted with the AISC steel manual and have copies of helpful chapter one dimensions and properties tables, they are well on their way.

Respectfully submitted by Stephen R. Langevin, P.E.



SENH JANUARY MEETING ANNOUNCEMENT

- NEXT MEETING:** January 20, 2009
- DOT UPDATE:** Prior to the main presentation, Mark Richardson, PE, from the NH Department of Transportation will give a short update on current topics and new details at NHDOT.
- PRESENTATION:** “Evaluation & Rehabilitation of the Deer Isle Suspension Bridge”, by Evan C. Lowell, P.E., TranSystems | Lichenstien
- The Deer Isle Bridge is the only roadway connecting Deer Isle, ME to the mainland. This slender bridge has received numerous improvements to stiffen the superstructure, as it has experienced several episodes of undulating and swaying in the coastal winds. TranSystems | Lichenstien performed a comprehensive inspection, material testing and load rating to evaluate the bridge’s condition. This evaluation served at the basis for a deck replacement design to: increase the bridge's capacity, maintain its aerodynamic performance and be constructed with minimal interruption to traffic.
- PLACE:** **The Grappone Conference Center,**
70 Constitution Ave., Concord, NH.
Phone 225-0303
www.grapponeconferencecenter.com
- DIRECTIONS:** I-93 to exit 15 west. Turn right at the first stoplight onto Commercial Street. Follow Commercial Street ¼ mile to Constitution Ave.
- AGENDA:** 5:30 pm-6:30 pm Social Hour
6:30 pm-7:15 pm Dinner
7:15 pm-7:30 pm Business Meeting
7:30 pm-9:00 pm Presentations
- DINNER:** Buffet choice of Pork Loin, Chicken or Haddock.
- COST:** Member: \$50.00 Non-Member: \$55.00 Full Time Student: \$10.00
- RSVP:** by Thursday, January 15, 2009. There will be a \$5.00 late fee for anyone wishing to RSVP past the January 15th date.

Please send check payable to “Structural Engineers of New Hampshire” with list of attendees to:

SENH
P.O. Box 226
Manchester, NH 03105-0226
Contact: Deb Coon, Administrative Assistant
dcoon@hoyletanner.com

- NOTE:** 2.0 PDHs have been assigned for attendance to this program. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the

SENH November 18, 2008 Meeting Minutes

Business Portion of the Meeting

The meeting was called to order by Alex Azodi, P.E., President, of SENH at 7:00 pm.

1. **Treasurers Report:** Kyle Roy reported the financial position of the organization continued to be strong. The ending bank balance was \$19,699.65.
2. **Public Relation Committee:** Alex reiterated that Jeff Tirey has accepted the chairman position. Linda McNair Perry is serving as Liaison to UNH. Bob Durfee is the liaison to NCSEA. Two university professors, Ricardo Medina and Erin Bell, and 10 students are attending tonight's presentation. SENH will be again offering scholarships to two UNH Juniors who are focusing on structural engineering in their studies. Applications are being requested by December 31. The award will be given in January. The recipients will be presented at the Engineering Banquet, February 19.
3. **Mary Ferguson, a senior at UNH,** talked about the UNH Steel Bridge Design Competition Program. About 20 students are involved with this year competition. They are seeking financial and professional support for this program from sources outside of UNH. The students hope to raise four to five thousand dollars for the project. The project will give the students experience in a competitive design environment having time, material, and cost constraints. This year, the bridge's superstructure must be below the deck. The emphasis will be on construction speed, minimal deflection, and high strength to weight ratio. Wentworth Institute of Technology will host the Regional Student Steel Bridge Competition in April of 2009. The mission of this year's bridge team is to win the regional competition and represent the university at the 2009 National Student Steel Bridge Competition will be held on May 22nd and 23rd at the University of Nevada, Las Vegas.
4. **NCSEA:** Bob Durfee announced that he and Alex attended the annual conference in Cleveland during the 23rd through the 25th of October. All of the New England organizations except Vermont were represented. In all, thirty-six organizations were present. Alex has been appointed to the Code Advisory Committee. The committee's function is to review and recommend code changes. The upcoming IBC will contain more definitions, simplify the wind load design, and revise the live load reduction provisions. It will clearly state that Structural Engineers of Record, (SER) will not be considered in conflict with the provisions of the code if they perform special inspections. Chapter 13 in conjunction with the LEED provisions has also been revised. The code now includes structural provisions for LEED certified buildings. Efforts are underway to have the New England Area organizations share speakers. The joint effort should reduce conflicts between adjacent organizations and simplify the means of getting speakers for meetings. ASCE 7 has major revisions to wind and seismic calculations when it debuts in 2010. The NCSEA Winter Institute is being held in Miami January 23-24. The subject will be wind engineering.
5. Alex again encouraged the membership to be more involved in structural programs at the local and national level. Many of the current committees are under staffed. Some of the past code changes were not done by structural engineers because they were too busy to participate. Anyone wishing to serve at NCSEA should give their names to Bob Durfee so that when a positioning is vacant, Bob can quickly respond to get it filled by a SENH member.
6. **Matt Low** spoke on behalf of NHSPE. Currently, there are 240 members in this state. The goal of the organization is to protect the current licensing program. He hopes that the SENH membership would consider joining both organizations. Sixty people have signed up for the next NHSPE meeting regarding DES permit updates.
7. **Nominating Committee:** This committee was just recently formed. It is composed of the present and past presidents of SENH, Alex Azodi, and Linda McNair Perry and one other past president, Bob Durfee.
8. **Professional Development Committee:** Alex spoke of a plan to have sponsors for dinner meetings. The program will be monitored by the PDC. The sponsors could set up a table at the business meeting and present a five-minute speech. The sponsors must be connected to the structural engineering field. Sponsorship fees could offset the price of the meetings. It would provide contact with an individual who may have a product needed for the office or next project. Alex asked the members present if they approved of the plan. The majority of the membership did approve. Sean briefly discussed future meeting topics. January's meeting will be a bridge topic. March's meeting will be on non-destructive testing. May's meeting will probably be on point loading of concrete on grade.
9. Sean thanked the students for attending tonight's dinner. Students wishing to leave were excused from attending the main presentation.
10. Sean James introduced the speakers.

Overview of Construction Related Insurance Requirements, by Susan Siegel, CPCU, and Robert Simpson, VP of the Rowley Agency, Inc.

The presentation addressed the following three issues.

1. How to read insurance certificates. What does it all mean?
2. How to write insurance requirements as part of a construction contract. What does additional insured really mean?
3. What you should know for design build projects in terms of insurance.

Continued from Page 6

Insurance certificates are issued as a matter of information only. They confer no rights upon the certificate holder. The certificate can not amend, extend or alter the coverage afforded by the policies. Insurance certificate only informs the party to whom they are given that the coverage exists.

As part of the handouts, a typical insurance certificate was provided. The form was subdivided into risk categories starting with general liability. The categories that followed were automotive liability, garage liability, excessive/umbrella liability, workers compensation and employers' liability, and other. Excessive liability provides higher limits beyond the standard general liability limits. Workers compensation is required for NH. All state contract workers involved with a project must be listed. Worker compensation automatically excludes the administrative staff. The standard certificate can not remove care, custody or control from a contractor, architect or engineer. A Builder Risk insurance policy needs to be written. Builder Risk indemnifies (secure against future

loss, damage, or liability) to a building under construction, renovation, or repair. The policy may also include coverage for items in transit to the construction site (up to a certain percentage of value) and items stored at the site. It should be noted water damage excludes floods. Builder risk is for property, not for land (dirt), flooded roads or bridges.

Public liability insurance is protection which pays sums that the insured is legally obligated to pay, or that the insurer has agreed to pay, as damages to others as a result of the insured negligence. It may cover bodily injury to another or damages to the property of another. It does not cover poor or faulty workmanship!

How insurance specifications are written does not mean grabbing something that looks good. Often what is grabbed is outdated and misleading. A list of antiquated terms was provided along with the current terminology in the handouts. Not only are insurance specification are misleading, sometimes what is required does not exist. The following sentence found under **Insurance and Indemnification** specification is one example.

"The contractor shall procure Public Liability Insurance with minimum limits of \$1,000,000 / \$2,000,000 insuring against claims for bodily injury and death and "broad form" Property Damage and Bodily Injury Insurance in an amount not less than \$10,000,000, and the contractor shall maintain such insurance in force until the final completion of the work." Many instances of faulty or erroneous limits, liabilities and issues were presented.

A review of an endorsement change to a policy intended to give engineers protection proved to be vague and inadequate. It was immediately clear that insurance specifications should be written by insurance experts.

Contractual relationships can affect liability issues. Contractor led, design subcontracted, places the liability with the contractor even though the AE firm has insurance. Designer led, construction subcontracted, places liability with the design professional. The design professional need to make sure that the construction contractor has the right insurance.

2.0 PDHs for the technical presentation was earned by attendees.

Respectfully submitted by Robert S. Busby, P.E., Secretary, SENH

Attendance List

Overview of Construction Related Insurance Requirements
The Sheraton Harborside Portsmouth Hotel & Conference Center
(2.0 PDHs)
November 18, 2008

| Name | Organization | Name | Organization |
|------------------------------|--------------------------------|----------------------------|-----------------------------------|
| Dana Michael Adams, P.E. | Opechee Construction Corp. | Heather Jones | University of New Hampshire |
| Geoffrey R. Aleva, P.E. | Civil Consultants | Jeffery R. Karam, P.E. | Summit Engineering, PLLC |
| Matthew Allen, P.E. | JSN Associates, Inc. | Roger Keilig, P.E. | HTE Northeast, Inc. |
| Alex Azodi, P.E., SECB | Omega Structural Engineers | Tom Kilrain, P.E. | Hoyle, Tanner & Assoc., Inc. |
| Dr. Erin Bell | University of New Hampshire | Dave Konieczny, P.E., SECB | Pyramid Engineering, P.C. |
| H. Edmond Bergeron, P.E. | HE Bergeron Engineers | Krystian Kozlowski | University of New Hampshire |
| Josif Bicja, E.I.T. | Hoyle, Tanner & Assoc., Inc. | Thomas E. Lamb | TFMoran, Inc. |
| Jay H. Brown, P.E. | Structural Systems, Inc. | Stephen R. Langevin, P.E. | Maguire Group, Inc. |
| Robert S. Busby, P.E. | Kalwall Corporation | Matthew J. Low, P.E., SECB | Hoyle, Tanner & Assoc., Inc. |
| John Byatt, P.E. | CLD Consulting Engineers, Inc. | Gerald Maher | |
| Robert Champagne, P.E., SECB | Summit Engineering | Nathan Maher, P.E. | JSN Associates, Inc. |
| Noah Chinburg | University of New Hampshire | Anthony P. Manzi, P.E. | Emanuel Engineering, Inc. |
| Normand G. Cote, P.E., SECB | NGC Structural, LLC | Dr. Ricardo Medina | University of New Hampshire |
| Tony Coviello, P.E. | Summit Engineering, PLLC | Chris Montigny | University of New Hampshire |
| Edward F. Decelle | Structural Systems, Inc. | Patrick Moon | University of New Hampshire |
| Sarah Desiderio, P.E. | JSN Associates, Inc. | Thomas J. Mullen | Poole Professional Ltd. |
| Robert H. Durfee, P.E., SECB | Dubois & King, Inc. | Linda McNair-Perry, P.E. | SFC Engineering Partnership, Inc. |
| Lawrence Dwyer | Terracon | Kyle Roy, P.E. | TFMoran, Inc. |
| Fred Emanuel, P.E. | Emanuel Engineering, Inc. | Hossein Salehkhrou, P.E. | JSN Associates, Inc. |
| Mary Ferguson | University of New Hampshire | Susan Siegel, CPCU | The Rowley Agency, Inc |
| Thomas A. French, P.E. | Michie Corporation | Robert Simpson, VP | The Rowley Agency, Inc |
| David W. Gates, P.E. | CLD Consulting Engineers, Inc. | Jonathan B. Truebe, P.E. | Lakeside Engineering, Inc. |
| Martin Gorham, P.E. | JSN Associates, Inc. | Kent Walker | University of New Hampshire |
| Kayla Hampe | University of New Hampshire | Edward Weingartner, P.E. | Hoyle, Tanner & Assoc., Inc. |
| Daniel Hudson, P.E. | CLD Consulting Engineers, Inc. | James Woitdt | University of New Hampshire |
| Sean James, P.E., SECB | Hoyle, Tanner & Assoc., Inc. | | |

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.



SENH 2009 Dues Renewal Notice



Renewal dues are as follows:

Member: \$ 50.00

Associate Member: \$50.00

Student Member: \$15.00

Please make check payable to SENH, and send with completed form to:

SENH
P.O. Box 226
Manchester, NH 03105-0226

BY January 31, 2009

**If sending one check for more than one person, please fill out a slip for each person.*

PLEASE FILL OUT COMPLETELY, THIS FORM IS USED FOR CONFIRMING AND UPDATING LISTS!

Please check one:

Member Associate Member Student Member

NAME _____ FIRM _____

ADDRESS _____

PHONE _____ FAX _____ **E-MAIL _____

P.E. YES NO WHICH STATE(S) _____

ARE YOU CERTIFIED BY THE STRUCTURAL ENGINEERING CERTIFICATION BOARD? YES NO

VOLUNTARY SENH SCHOLARSHIP CONTRIBUTION: \$10 _____ \$20 _____ \$50 _____ OTHER \$ _____

Check # _____ Check Amount \$ _____

Please indicate below if you would like to serve on one or more of the following committees.

- Professional Development Committee
- Public Relations Committee
 - Scholarship
 - Website
 - Student Outreach
 - Publicity
- SENH/NHTI Library Coordinator
- Other (Please Specify) _____

****Our newsletters are delivered via e-mail. In order to receive your newsletter via US Postal Service you must check the box below.**



Please send my newsletter via regular mail.



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

WWW.SENH.ORG



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