



STRUCTURAL ENGINEERS OF NEW HAMPSHIRE

Granite Columns

President's Letter



Happy Holidays! I can't believe it is almost 2014 already. I hope everyone is enjoying the holiday season. It has been a good year for SENH, we have a healthy membership, financially sound, and are fortunate to continue to have volunteers that are dedicated to guiding and improving the organization.

As typical with the January newsletter, the Dues Renewal Notice and Corporate Advertising Form are attached. Please attend to the renewal notice by the January 31, 2014 deadline; it makes it much more efficient to process when they are received in a timely manner. You will notice again there is a new(ish) section on the Dues Renewal Notice related to 'calls from the Public'. As discussed at previous meetings, we occasionally get a call or e-mail question from the public requiring the services of a Structural Engineer. We will be providing a list of Engineers on the website that are available to respond to the public inquiries. This will ensure that BOD is fair in directing calls to Engineers and eliminates the BOD directing calls to Engineers that are not interested in the work. When the public contacts SENH for engineering services, they will be directed to the website listing. The renewal form has three categories (bridge, building – residential, building – commercial); check each box that you wish to be listed for. Names, location, and contact information of interested engineers will be provided on the website.

Corporate advertising with SENH is an inexpensive and effective way to brand your firm to the engineering world, the Public, and Clients. If you are interested in advertising, fill out the attached paperwork.

A reminder that Engineers Week 2014 is February 16-22. The 63rd Annual Engineers Week Banquet and Exhibition will be Thursday February 20 at the SERESC Conference Center in Bedford – visit the NHSPE website for additional information at <http://www.nhspe.org/nh-engineers-week>.

SENH will be forming an EOY/YEOY (Engineer of the Year/Young Engineer of the Year) committee this Spring. The intent of the committee will be to accept nominations for EOY/YEOY nominations and facilitate the application process to best represent our nominations for this prestigious award. In the past we have found that beginning this process late in the year significantly hinders our ability to solicit nominations and prepare the (extensive) application. We have a lot of great talent within our organization and should be making applications every year on behalf of our members.

I would like to take this time to extend my sincere thanks to all the volunteers that take their valuable free time to make SENH the success that it is – all the BOD's and all of the various committee members. A special thanks to Deb Coon whose tireless efforts literally keep SENH moving forward.

If you have any questions or comments please feel free to contact me at (603) 225-2978 or President@senh.org.

Josh

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Special Points of Interest/ Reminders:

- *What SENH Member was honored with Carnegie Mellon's Civil & Environmental Engineering (CEE) 2013 Distinguished Alumnus Award? Look inside and find out!*
- *The next meeting is January 18th. See inside for details.*

2014 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 \$55.00 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.

Corporate Advertisements

SENH is currently accepting corporate advertisements starting with the March 2014 newsletter. The cost of the advertisements will be on an annual calendar year basis and will be included in our 5 newsletters as well as links on our web site. The advertising artwork must be in the form of a 1.3" x 2.3" business card. Please see the "Corporate Advertising Form" in this newsletter for more details.

Supplementing BIM with PDF Communication, *Presented By Derek Gilbert, P.E., Bluebeam Software*

Derek is scheduled to present at the 2014 Structures Congress, taking place, April 3-5 in Boston, MA. His topic, Supplementing BIM with PDF-Based Communications, will examine how structural engineers can improve project communication by utilizing PDF, a universal file format, to share critical information downstream with project team members who may not have access to BIM. Attendees will learn how leveraging 2D and 3D PDFs to communicate project data can give team members a complete 360-degree view of the issues at hand, without requiring access to the model, and ultimately leading to an expedited design coordination process.

New Hampshire Disaster Emergency Response Team, *Submitted By Robert R. Champagne, P.E.*

The NH Disaster Emergency Response Team (NH DERT) is a newly formed group of Engineers, Architects, Building Officials and Contractors. This group has been established as a disaster organization resource available to the State of New Hampshire's Homeland Security and Emergency Management (NHHSEM) for rapid mobilization during times of disasters and emergencies. This group of volunteers will receive training, and be available to assist NHHSEM for post-disaster building evaluations and technical matters regarding disaster preparedness.

The group has been meeting on a regular basis over the last several months in an attempt to clearly define a mission statement and framework for the response structure. Legislation has been filed to include engineers and architects in the NH Good Samaritan Law. We are currently working on a Memorandum of Understanding with NHHSEM. They have been very helpful in our organization of the group, and have provided venues for meetings, training spaces and support.

On December 7, 2013 fifteen people attended the Incident Command System (ICS) training hosted at the Incident Planning and Operations Center in Concord, NH. This program introduces the emergency management system and protocol. The course is also available on-line through FEMA. Our second training day is scheduled for January 18, 2014, which will be a certification course for building assessment of structures affected by earthquake, wind and water. This is the California Office of Emergency Services (Cal-OES) Safety Assessment Program (SAP) training, and is one of two post-disaster assessment programs which will be compliant with the forthcoming Federal Resource Typing Standards for emergency responders. This course is based on the ATC 20/45 documents.

All volunteers are welcome to our regular meetings and training seminars/courses. I would be happy to provide additional information to any and all who may be interested. I can be reached via email at bob@summitengineeringinc.com.

SENH JANUARY MEETING ANNOUNCEMENT

- NEXT MEETING:** Thursday, January 9, 2014
- PRESENTATIONS:** **NHDOT Bridge Program Update**, by *Mark Richardson, PE* – Find out what has been going on at NHDOT and what is on the horizon.
- The Memorial Bridge – Design Innovations & Fabrication Challenges**, by *Jerry Zoller, PE*
- King Road Grade Separation Project, Burlington, Ontario**, by *Jonathan Davies, PE, Jeffrey Long, PE and Jeb Pittsinger* – The project included a two lane underpass beneath four active railway tracks without disrupting the freight or commuter train services. The project was completed by constructing a 26' x 52' reinforced concrete box adjacent to the rail lines and jacking it into place during a 72 hour closure of the railway tracks over Canadian Thanksgiving 2012.
- SPEAKERS:** Mark Richardson, PE– NHDOT Bureau of Bridge Design Administrator
Jerry Zoller, PE - Project Engineer at NHDOT Bureau of Bridge Design
Jonathan Davies, PE - Vice President, Jeffrey Long, PE - Sr Structural Engineer and Jeb Pittsinger - Engineer with Hatch Mott MacDonald.
- PLACE:** Grappone Conference Center
70 Constitution Ave. Concord, NH 03301
- DIRECTIONS:** Take I-93 to Exit 15W onto I-393 West. In ¼ mile, turn right onto Commercial St. Turn right to stay on Commercial St. Constitution Ave. and the Grappone Conference Center is 250 yards ahead on the right.
- AGENDA:** 5:15 pm – 6:15 pm Registration/Social Hour
6:15 pm – 7:00 pm Dinner
7:00 pm – 7:15 pm Business Meeting
7:15 pm – 7:45 pm NHDOT Bridge Program by Mark Richardson, PE
7:45 pm – 8:25 pm The Memorial Bridge by Jerry Zoller, PE
8:25 pm – 9:00 pm King Rd Project by Hatch Moot MacDonald
- DINNER:** Buffet with choice of Salmon or English Cut Prime Rib.
- COST:** SENH Member: \$50.00 Non-Member: \$55.00 Full Time Student: \$15.00 - 'no-shows' will be billed at full amount.
- RSVP:** by Friday, January 3, 2014. There will be a \$5.00 late fee for anyone wishing to RSVP past this date.
- Please send check payable to “Structural Engineers of New Hampshire” with list of attendees to:
- Hoyle, Tanner & Associates, Inc.
Attn. Deb Coon
150 Dow Street
Manchester, NH 03101
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 meeting.

November Meeting Attendance List & Meeting Minutes

Risk Control Session, Shop Drawings and Contract Clauses

Sheraton Portsmouth Harborside, Portsmouth, New Hampshire (2.0 PDH's)

November 12, 2013

Name	Organization	Name	Organization
Geoffrey R. Aleva, P.E.	Civil Consultants	Michael Herlihy, ARM, CRIS	Ames & Gough, Inc.
Alex Azodi, P.E., SECB	Omega Structural Engineers	Sean James, P.E.	Hoyle, Tanner & Assoc., Inc.
Daniel Bard	Summit Engineering, PLLC	Jeffery R. Karam, P.E., LEED	Summit Engineering, PLLC
Lily Beyer	Hoyle, Tanner & Assoc., Inc.	Roger Keilig, PE, PG, CPESC	HTE Northeast, Inc.
Josif Bicja, P.E.	Hoyle, Tanner & Assoc., Inc.	Tom Kilrain, P.E.	Department of Navy
Sean Brown E.I.T.	Parsons Brinckerhoff	Thomas E. Lamb, P.E.	TFMoran, Inc.
Jay H. Brown, P.E.	Structural Systems, Inc.	Matthew J. Low, P.E.	Hoyle, Tanner & Assoc., Inc.
Robert S. Busby, P.E.	Kalwall Corporation	Josh Lund, P.E., SECB	McFarland Johnson, Inc.
Robert Champagne, P.E., LEED	Summit Engineering, PLLC	Tyler McNally	Summit Engineering, PLLC
Alice Chao, E.I.T.	Hoyle, Tanner & Assoc., Inc.	Eric Ohanian	Dubois & King, Inc.
Nathaniel Colp	University of New Hampshire	Linda McNair-Perry, P.E., SECB	SFC Engineering Partnership, Inc.
Edward F. Decelle	Structural Systems, Inc.	Eric Picard, E.I.T.	TFMoran, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Marshall Ramini	Summit Engineering, PLLC
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	Neil J. Rapoza, P.E.	Civil Consultants
Cris-Hawk Farrin	Summit Engineering, PLLC	Joshua D. Reilly	Structural Systems, Inc.
Roger W. Gayer, P.E.	Structures Unlimited, Inc.	Paul Sbacchi, P.E.	TFMoran, Inc.
Derek J. Gilbert, P.E.	Bluebeam Software, Inc	Michael J. Sievert, P.E., SECB	MJS Engineering, P.C.
Geoffrey S. Glover	University of New Hampshire	Carter Terry	University of New Hampshire
Peter J.L. Griem, P.E.	Hoyle, Tanner & Assoc., Inc.	Ross Wood, P.E.	CHA Companies
Scott Hartford, P.E.	Kalwall Corporation		

1. SENH President Josh Lund opened the membership meeting.
2. President Josh Lund congratulated Member Alex Azodi on his appointment by the Governor to the NH Board of Engineers.
3. President Josh Lund congratulated Member Linda McNair-Perry on winning 'Civil Engineering Distinguished Alumnus Award' from Carnegie Melon.
4. Treasurer Bob Champagne reported the current checkbook balance of \$27,650
5. President Josh Lund made a call for members to volunteer for committees and to submit articles to the Newsletter.
6. Member Bob Durfee reported on the September NCSEA conference in Atlanta.
7. Member Alex Azodi reported on NH Board of Engineers.

Presentation

Brief Risk Control Presentation on Shop Drawings and Contract Clauses, Presented by Michael Herlihy, ARM of Ames & Gough, Inc.

Mr. Herlihy gave a detailed presentation of the risks associated with Shop Drawing Reviews and common Contract Language that can expand liability or conversely minimize risk for an engineering firm.

Mr. Herlihy began by explaining that the shop drawing submittal process is a necessary part of all construction projects and that they come with inherit risks that may increase liability for the reviewing firm. He stated that shop drawings are purposed to detail information for means and methods of construction and to demonstrate the contractor's knowledge of the design intent; They are not intended as a change order approval process. To minimize liability risk to the reviewing firm the designer should specify what will be reviewed, establish a schedule, and communicate the process to the contractor prior to the start of construction. Mr. Herlihy mentioned it is the contractor's role to create a submission schedule and verify the accuracy of each submittal as it applied to the project prior to submission. He emphasized that ALL submittals must have the contractor's stamp stating they reviewed and approved the submittal prior to the engineer beginning a review. He affirmed that the reviewing engineer can minimize risk by making sure there is enough time built into contracts for the submittal process, by agreeing early on what is to be submitted and to take action early when the contractor is off schedule. He stressed that engineers not review shop drawings without the contractor's approval stamp or that have obvious errors or omissions and that shop drawings shall be stamped with the engineers disposition prior to returning them. The stamp should have a statement stating that the intent of the review and/or approval is only for "General Conformance with the design concept of the Project and the information given in the Contract Documents".

The second part of Mr. Herlihy's presentation discussed client contract pitfalls that expand liability for design firms. Some of these areas that he highlighted include: Unclear Scopes of Service, Indemnification Clauses, Warranties or Guarantees, Timeliness of Performance, Ownership of Documents and Waivers of Subrogation. He stated that scope of services should be clear and specific, not open ended and that the contract should state that out of scope services may be performed for an additional fee. Mr. Herlihy cautioned the audience regarding the inclusiveness of indemnification clauses and said that indemnification should be specifically reserved for the engineering firm and their sub-consultants. The presentation ended with a brief case study of a 2011 lawsuit that included an owner, contractor, engineering firm and geotechnical inspector firm. The message delivered was that the inspection firm could have prevented a judgment against them for ALL the owner's legal fees had the indemnification clause not stated the inspection firm would indemnify and hold harmless the owner from "ANY" claim caused by "ANY" negligent act or omission by the inspection firm. Even though they were found to be only partially negligent in their services, they had agreed to bear the owner's legal costs even though the owner filed the lawsuit.

The presentation was extremely informative and most certainly caused many of our members to re-evaluate their shop drawing review process and their standard contract languages.

Respectfully submitted by Thomas French, PE, Secretary

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Employment Opportunities



SENH 2014 Dues Renewal Notice



Member of

Renewal dues are as follows:

Member: \$ 55.00 Associate Member: \$55.00 Student Member: \$15.00 Retired Member: \$15.00
Waived for 2014

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

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

BY January 31, 2014

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

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

Please check one:

Member Associate Member Student Member Retired Member

NAME _____ FIRM _____

ADDRESS _____

PHONE _____ FAX _____ **E-MAIL _____

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

Age 35 and Under Over 35 – This information is being gathered in an attempt to grow our younger member group.

Does the information provided represent a change in registration data from the previous year? YES NO

Do you wish to be listed on the website to accept calls from the public? YES NO

If yes - check all categories that apply : Bridges Buildings Residential Buildings Commercial

Do you hold any additional certifications such as SECB LEED Other _____

Do you wish for SENH to share your e-mail address with NCSEA to receive their announcements? YES NO

Do you wish to have your member information (except e-mail) included on the SENH Website? YES NO

Do you wish to have your name in a searchable database on the SENH Website? YES NO

Voluntary SENH scholarship contribution: \$10 _____ \$20 _____ \$50 _____ OTHER \$ _____

Check # _____ Check Amount \$ _____

If you wish to have your "Linked In" profile shown on the SENH Website with your member directory listing, please provide the link here:

****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.



Structural Engineers of New Hampshire

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

www.senh.org



Corporate Advertising

Introduction:

SENH accepts corporate advertisement for posting on its website and for inclusion in five (5) newsletters delivered electronically to its members. The postings will include a hyperlink to the firms website if desired.

Advertisement Format:

All advertisements shall be in the form a 1.3" x 2.3" business card and shall be submitted electronically in a .jpg or .pdf format.

Advertisement Fee:

An annual fee of \$100 is required for structural engineering related firms who employ at least one (1) Member or Associate Member of SENH. An annual fee of \$150 is required for structural engineering related firms who do not employ a Member or Associate Member of SENH. An annual fee of \$300 is required for non-structural engineering related advertisements. Advertisement Fees are for the Period of January 1st to December 31st. Advertisements received outside of the annual renewal cycle will be assessed a fee of \$10/month, \$15/month and \$30/month respectively.

For purposes of SENH advertisements structural engineering related firms shall include the following:

- Structural Engineering Design Companies
- Architectural / HVAC Design Companies
- Survey Companies
- Geotechnical Engineering Companies
- Manufacturers whose products are utilized in building or bridge construction
- Architectural Historians / Archaeologists
- Companies providing professional services to structural engineering companies (Accountants, Lawyers, etc.)
- Software companies providing structural analysis, CADD, estimating or scheduling software
- Other companies approved at the discretion of the SENH Board of Directors

The SENH Board of Directors reserves the right to limit the type of advertising accepted for use.



Structural Engineers of New Hampshire

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

www.senh.org



Member of

Corporate Advertising Form

CONTACT INFORMATION:

Company Name: _____

Company Address: _____

Phone & Fax Numbers: _____

Website Address: _____

Contact Name: _____

Contact Phone Number: _____

Contact E-mail Address: _____

BUSINESS DESCRIPTION:

- Company employs at least one (1) SENH Member or Associate Member.
- Company does not employ at least one (1) SENH Member or Associate Member.

If second box is checked, please provide a brief description of business and how it relates to structural engineering:

ADVERTISING FEE:

- \$100 – Structural Engineering Related Company employing at least one (1) SENH Member or Associate Member.
- \$150 – Structural Engineering Related Company that does not employ at least one (1) SENH Member or Associate Member.
- \$300 – All other companies.

SUBMIT COMPLETED APPLICATION WITH FEE TO:

Structural Engineers of New Hampshire
P.O. Box 226
Manchester, NH 03105-0226

SUBMIT ELECTRONIC ADVERTISEMENT

TO: admin@senh.org

Please Note: Electronic files may be submitted prior to applications and fees however the advertisement will not be posted until SENH has received the application and application fee.



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

WWW.SENH.ORG



Member of

Save the Date – May 1, 2014!!!! The University of New Hampshire Civil Engineering Industrial Advisory Board, in conjunction with the civil and environmental engineering faculty and students, will be holding the 3rd UNH Civil and Environmental Engineering Alumni Conference on the campus of UNH. The day will be filled with technical topics, educational sessions and networking between industry and academia. The first two conferences were such a success we are convinced that the third conference will be beneficial to all those that attend, present or participate in the conference. Should you have any questions, please contact Matthew J. Low, P.E. at mjlow@hoyletanner.com or (603) 669-5555 ext. 128.

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