



Volume 5 Issue 1

January 2011

STRUCTURAL ENGINEERS OF NEW HAMPSHIRE

# Granite Columns

## President's Letter



Happy New Year! This is a great time to reflect on the past year and begin finalizing plans for 2011. As I reflect on the state of our organization, I find an organization that is a strong advocate for structural engineers in New Hampshire and one that provides targeted benefits to our members. I would like to thank all of you for being a part of our organization and particularly those who volunteer their time to SENH. I would also like to thank our Administrative Assistant Deb Coon who keeps our organization running smoothly and looking professional.

### **SENH Logo**

During the update of our web site, we have been taking a fresh look at the organization including our logo. As part of this process we reviewed web sites from NCSEA member organizations across the country (see <http://www.ncsea.com/Members.aspx> for web site links) and made two notes regarding our logo: 1) Most NCSEA organizations use a modified version of the NCSEA logo and 2) our logo is looking dated. With this in mind, SENH Administrative Assistant Deb Coon created the new logo you see on this month's newsletter. We also wanted the SENH membership to have the opportunity to contribute to a new logo. Therefore if you have a design for a new SENH logo, please submit it <mailto:dcoon@hoyletanner.com> by February 15, 2011 and the SENH Board will consider it for use. If you prefer to keep the new logo, we would like to know that as well.

### **2010-2011 SENH BOD Goals**

As discussed in the last President's message, the SENH Board has set five goals for the upcoming year which will be updated in each newsletter.

1. **SEER** - Establish a Memorandum of Understanding with the State of New Hampshire to facilitate a group of Structural Engineer Emergency Reservists (SEER).
  - **Coordination with the NH State Fire Marshall is ongoing.**
2. **UNH** - Improve coordination with UNH structural engineering students and faculty.
  - **Linda McNair-Perry has been appointed as SENH's UNH Liaison.**

### **Inside this issue:**

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### **Special Points of Interest/ Reminders:**

- *The next SENH Meeting is January 13, 2011 See inside for details.*
- *SENH has a limited number of mugs for sale for \$5 each. These white coffee mugs include a blue SENH logo.*
- *It is Dues Renewal time—membership renewals are due by January 31, 2011.*

## Presidents Letter *continued from Page 1*

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3. **SENH Committees** - Improve and update SENH's Committees and gain new volunteers to expand services.
  - ***The PR committee has been very active with work on the new SENH website.***
  - ***Adam Stockin is now a member of the Professional Development Committee.***
  - ***An organizational list of responsibilities by position has been updated.***
4. **CE** - Provide Continuing Education certifications for SENH meetings and seminars for states such as New York that require CE pre-certification. - **No update.**
5. **Scholarship** - Establish a dedicated fund for SENH scholarships. - **No update.**

“Engineering problems are under-defined, there are many solutions, good, bad and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice.”  
- Ove Arup

### ***Newsletter / Web Site Advertising***

As a reminder SENH is requesting project photos (no charge) for use on the updated SENH web site as well as corporate advertising (charge) for the web site and newsletter.

I look forward to seeing you at our next meeting and if you have any questions or comments please feel free to contact me at (603) 669-5555 or <mailto:sjames@hoyletanner.com>.



## 2011 Dues Renewal

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You will note on this year's renewal form that SENH Member and Associate Member dues have increased to \$55/year. The Board is proposing this increase largely due to an increase in our NCSEA annual dues per member from \$16/year to \$20/year. Our annual dues have remained the same for the past three years with our last dues increases in 2007 and 2002. Our organization continues to be financially healthy and we are have begun new initiatives such as web site advertising to reduce the need for future increases and to expand our offerings. We understand that times are financially difficult for many of our member but we hope you will continue to see the many benefits SENH has to offer. A renewal form is included in this newsletter and can also be found at the SENH website.

## Corporate Advertisements

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SENH is currently accepting corporate advertisements starting with the January 2011 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.

## Additional Meetings & Conferences

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Working with the Joint Engineering Societies Committee, NHSPE has developed a "NH Engineering Calendar" ([www.nhecal.org](http://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](mailto:info@nhspe.org).

SeaMASS is sponsoring a Four Hour Wind Presentation by Ed Huston, P.E., SE, featuring "Wind Design Using the new provisions in the 2009 IBC" on February 8, 2011. A "Save the Date" flyer as been included in the newsletter for more information.

**2011 Engineer's Week Banquet is February 17th—Click on <http://calendar.nhjes.org/files/Final.60TH%20Annual%20SAVE%20THE%20DATE%2012.8.2010.pdf> for more details.**

## New Members, Associate Members & Student Members

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

**Member:**

- ◇ Peter J.L. Griem, P.E., Hoyle, Tanner & Assoc., Inc.

**Student Member:**

- ◇ David D. Gaylord, University of New Hampshire

# SENH JANUARY MEETING ANNOUNCEMENT

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**NEXT MEETING:** Thursday, January 13, 2011

**PRESENTATION:** Leonard Zabilansky, PE, from the Army Corps of Engineers Cold Regions Research & Engineering Laboratory, will present on the topic of ice design for bridge structures. Items covered will include resources to characterize ice thickness, characterize the source of ice force, modes of failure and calculation, design considerations to reduce ice force, ice induced bridge scour, and discussion on the COE Manual for Ice Engineering.

Mark Richardson, PE, Administrator of the NHDOT Bureau of Bridge Design, will provide a 15-25 minute "State of the Union" overview of the Bureau of Bridge Design prior to the main presentation.

**PLACE:** The Grappone Center  
70 Constitution Avenue  
Concord, NH 03301  
(603) 225-4949

**DIRECTIONS:** From I-93 North: take Exit 15 W (393), go over I-93, take a right at first light (Commercial Street), follow Commercial Street and take a right onto Constitution Avenue, take a left into the Courtyard parking lot.  
From I-93 South: take Exit 15 W (393), take a right at first light (Commercial Street), follow Commercial Street and take a right onto Constitution Avenue, take a left into the Courtyard parking lot.

**AGENDA:** 5:00 pm-6:15 pm Social Hour  
6:15 pm-7:00 pm Dinner  
7:00 pm-7:15 pm Business Meeting  
7:15 pm-9:00 pm Presentations

**DINNER:** Buffet with choice of Sliced Sirloin of Beef, Sautéed Chicken with Hunter Sauce, and Penne Verde

**COST:** Member: \$55.00 Non-Member: \$65.00 Full Time Student: \$10.00

**RSVP:** by Thursday, January 6, 2011. There will be a \$5.00 late fee for anyone wishing to RSVP past the Thursday, January 6, 2011 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](mailto: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.

# SENH November 2010 Meeting Minutes

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## **Business Portion of the Meeting**

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1. SENH President Sean James, PE began the membership meeting.
2. Treasurer's report was given by Kyle Roy, PE.

## ***Advanced Composite Systems for the Strengthening, Protection and Repair of Structures*** by Michael Travis, Fibrewrap Construction LP

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Fibrewrap Construction, Inc. is a full service structural renovation company, specializing in the design and application of Advanced Composite Systems. Fibrewrap Construction, Inc. was founded in 1988 to assist in the development of [Fyfe Company](#) LLC's Tyfo® Fibrewrap® Systems.

Fibrewrap Construction, Inc. has performed state of the art structural repairs to many facilities including military installations, industrial facilities, hospitals, petrochemical plants, schools, water and waste water sites and coastal structures. These upgrades have included seismic retrofit, overloading, change of use, corrosion control and blast hardening.

***2.0 PDH's for the technical presentation was earned by attendees. Respectfully submitted by Normand G. Cote, PE, SECB, Secretary - SENH***

# Attendance List

Fibrewrap Products, Systems and Applications  
The Yard Restaurant, Manchester, NH  
(2.0 PDH's)  
November 16, 2010

Name	Organization	Name	Organization
Alex Azodi, P.E., SECB	Omega Structural Engineers	Sean James, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Josh Bartlett	Boise Structural Solutions	Paul Kirby, P.E.	The Louis Berger Group, Inc.
Michael A. Brassard	Dubois and King	Stephen Kiss, P.E.	SAK Engineering
Robert S. Busby, P.E.	Kalwall Corporation	Aaron M. LaChance, P.E.	Stantec Consulting
Robert R. Bussiere, P.E.		Thomas E. Lamb	TFMoran, Inc.
Robert Champagne, P.E., SECB	Summit Engineering	Stephen R. Langevin, P.E.	TEC, Inc.
Geoffrey Conway, P.E.	Foley Buhl Roberts & Associates, Inc.	Sean Loeding	Fibrewrap Construction LP
Normand G. Cote, P.E., SECB	NGC Structural, LLC	Josh Lund, P.E., SECB	Stantec
Cheryl W. Coviello, P.E.	Vine Associates	Kenneth G. Marshall, P.E.	Foley Buhl Roberts & Associates, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Richard E. Roberts, P.E.	Foley Buhl Roberts & Associates, Inc.
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	Kyle Roy, P.E., SECB	TFMoran, Inc.
Roger W. Gayer, P.E.	Structures Unlimited, Inc.	Adam M. Stockin, P.E.	Parsons , Brinckerhoff, Quade & Douglas, Inc.
Dan L. Gelinis, P.E., SECB	Gelinis Structural Engineering, LLC	Benjamin E. Tirey, P.E., SECB	Str. Eng Consultant
Derek J. Gilbert, P.E.	Foley Buhl Roberts & Associates, Inc.	Michael Travis	Fibrewrap Construction LP
Timothy L. Grant, P.E.		Jeffrey S. Trexler, P.E.	Trexler Engineering
Peter Griem, P.E.	Hoyle, Tanner & Assoc., Inc.	Mark D. Whittemore, P.E.	Dubois & King, Inc.



# SENH 2011 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 2011*

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

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

**BY January 31, 2011**

*\*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) \_\_\_\_\_

Do you hold any additional certifications such as  SECB  LEED  Other \_\_\_\_\_

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

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 03105-0225

[www.senh.org](http://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 1<sup>st</sup> to December 31<sup>st</sup>. Advertisements received outside of the annual renewal cycle will be assessed a fee of \$10/month.

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 03105-0225

[www.senh.org](http://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 03105-0225

**SUBMIT ELECTRONIC ADVERTISEMENT TO:**

[dcoon@hoyletanner.com](mailto:dcoon@hoyletanner.com)

*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.*

## SEAMass Announcements

### SAVE THE DATE February 8, 2011 Four Hour Wind Presentation by Ed Huston, P.E., SE

#### Wind Design Using the new provisions in the 2009 IBC

Recent trial designs of wind and seismic provisions have shown that practicing engineers have great difficulty applying the wind provisions of ASCE 7-05 and that they often get unconservative answers. The SEAOC, SEAO and SEAW Wind Committees, in cooperation with NCSEA, have developed a much faster, simpler method for wind design of typical buildings which has been published in the 2009 IBC. Trial designs of this method indicate that it improves accuracy and greatly reduces the time it takes to calculate the wind forces.

The seminar will provide an overview on the provisions and recommendations for solutions to wind engineering design, especially as those provisions are encapsulated in the traditional method of "All-Heights". It will discuss how wind flows around a building and how the flow of wind is taken into account by ASCE 7. The seminar will provide a comparison of the traditional method of "All-Heights" to the new "Alternate Method of All-Heights" in the 2009 IBC. The last session of the seminar will present three detailed example problems which compare and contrast the existing and alternate design methods. These examples include analysis of torsion and topographic effects.

#### Ed Huston, PE, SE

Ed Huston is a 1971 civil engineering graduate of the University of Washington, Ed is a licensed civil and structural engineer in Washington, and is licensed in seven other western states. He is a principal in the firm of Smith & Huston, Inc., Consulting Engineers in Seattle, Washington. Ed has over 39 years of experience in structural design, evaluation, investigation and code and standards development. He has been very active in the Structural Engineers Association of Washington, (SEAW) holding positions as Seattle Chapter President and State Association President. He is currently chair of the Exam Committee, and coordinates the Northwest Conference Council.

Ed is a former President of the Board of Directors of NCSEA. He is chair of the Code Advisory Committee – General Requirements.

Ed has served on the board of directors and as President of the Applied Technology Council, (ATC) a national organization whose goal is the research into the effects of earthquakes and other natural forces and the dissemination of the results of that research. Ed was a member of the SAC Steel Project Joint Venture Management Committee; was on the Project Review Panel of ATC 43 - *Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings*; and was Lead Technical Consultant on ATC 45 - *A Field Manual for Safety Evaluations of Buildings after Windstorms and Floods*. He is a co-author of the *ATC Design Guide 2: Basic Wind Engineering of Low-Rise Buildings*.

Ed is a member of The Masonry Society and has served on their board of directors as board member, secretary and treasurer. He also serves on the Masonry Standards Joint Committee, which writes the masonry standard and specification. He represented SEAW on The Puget Sound Engineering Council, an association of 24 Engineering Societies, and served as Secretary. Ed is also a member of the Institute of Structural Engineers, headquartered in London, England.

Ed is a co-author of the *Wind Commentary to the Uniform Building Code - 1991 Edition & 1994 Editions*, ATC-60, *SEAW Commentary on Wind Code Provisions*, as well as the *SEAW RSM-03, SEAW's Handbook of a Rapid Solution Methodology™ for Wind Design* and *The Masonry Designers' Guide to the ACI/ASCE 530 Code, First through Sixth Editions*. He has made over 160 seminar and technical presentations.

Scheduling information will be available soon.



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

**WWW.SENH.ORG**



Member of

**Mark Your Calendars for the  
Upcoming Dates of Future SENH  
Meetings:**

*Thursday, January 13, 2011*

*Tuesday, March 8, 2011*

*Tuesday, May 17, 2010*

**Board of Directors**

President	Sean James, P.E., SECB
Vice President	H. Edmond Bergeron, P.E.
Secretary	Normand Cote, P.E., SECB
Treasurer	Kyle Roy, P.E.
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