



President's Letter



Snow storms in New Hampshire in January are not unusual, however the amount of snow we have received in January has been much higher than average. The snow load on roofs, particularly after a recent rain event, has been a topic of discussion on the local news. Although it is mentioned that certain buildings have been closed until a structural engineer inspects the building, the advice given to homeowners in these reports is generally from the local fire department, contractors or landscapers. The Office of the State Fire Marshall did reference the SENH/CREEL Snow Load report in a recent press release which is a step in the right direction. However, I think SENH and our members can serve a more public role in these discussions. If you are interested in assisting with these efforts, please let me know.

The Public Relations Committee (PRC) has been working with our web site designer to update our web presence. I am pleased to announce that phase 1 of this effort is nearly complete and the updated SENH web site is scheduled to 'go live' soon (watch your e-mail for updates). In the meantime the current site will be active, however there may be times when it is not available as we will be switching web site hosts as part of our upgrade. I encourage you to spend some time reviewing the site and to submit project photos or corporate advertisements if you haven't already done so. A second, smaller round of updates and additions is also currently being planned. If you have comments or suggestions for the web site please feel free to forward them to myself (<mailto:sjames@hoyletanner.com>) or PRC chair Jeff Tirey (<mailto:jeff@tireyandassociates.com>)

It is the time of year for SENH Board of Directors nominations. Please read the section on Board Nominations in this newsletter for more details.

2010-2011 SENH BOD Goals

As discussed in the previous President's messages, 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).
 - ***Review of a Memorandum of Understanding is complete and coordination continues.***

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Special Points of Interest/ Reminders:

- *The next SENH Meeting is March 8, 2011 See inside for details.*
- *It is Dues Renewal time—membership renewals were due on January 31, 2011. If you have not renewed your dues please do so.*

Presidents Letter *continued from Page 1*

2. UNH - Improve coordination with UNH structural engineering students and faculty.
 - ***A meeting with SENH members and UNH faculty is being scheduled to improve future communication.***
 - ***Our March membership meeting is being held at UNH and will feature presentations on UNH structural engineering research projects.***
3. SENH Committees - Improve and update SENH's Committees and gain new volunteers to expand services.
 - ***The updated SENH web site will go live soon.***
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.***

"What need the bridge much broader
than the flood?"

-William Shakespeare

Much Ado About Nothing

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>.



Nominations for SENH Board of Directors

In accordance with the bylaws, the current SENH Board of Directors have reviewed and approved the following individuals for the three positions opening on the Board:

1. Norm Cote
2. Sean James
3. Josh Lund

Current Board members Norm Cote and Sean James are seeking re-election while Ed Bergeron will not be. The Board has appreciated Ed's efforts, has benefited from his experience and wishes to thank him for all he has done for SENH. The current Board is nominating Josh Lund to fill the remaining open Board position. Josh has been contributing to SENH as Chairman of the Professional Development Committee for the past two years.

According to the bylaws, additional nominations may be submitted by any SENH member in good standing. These submissions must be in writing, have the supporting signatures of at least three SENH members, and be submitted to the Board by March 31. All nominations will be presented to the members by April 15.

Corporate Advertisements

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

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.

- ASCE - Winter Geotechnical Webinar “LRFD for Geotechnical Engineering, Micropile Foundations . To access the webinar brochure go to National’s website www.asce.org and follow along to “Continuing Education” and “Live, Interactive Web Seminars
- ACEC/NHDOT Technical Transfer Conference on April 12, 2011.
- NH Joint Engineering Society Conference on October 6, 2011.

New Members, Associate Members & Student Members

SENH welcomes the following new Members, Associate Members & Student Members:

Associate Member:

- ◇ Brandt Pyle, JSN Associates, Inc.

SENH MARCH MEETING ANNOUNCEMENT

NEXT MEETING: Tuesday, March 8, 2011

PRESENTATION: The main presentation speaker will be UNH Professor Dr. Charlie Goodspeed, and assisted by graduate students. Dr. Goodspeed's topic will be related to research with full depth precast concrete panels used on a bridge in Gilford, NH.

Prior to the main presentation, two graduate students will provide presentations. Tim Foy will present his research on automatic updating of structural models of the Maurice J Tobin Memorial Bridge, and Jason Peddle will present his research on Digital Image Correlation (DIC) as an alternative method of non-destructive testing of bridges.

PLACE: **University of New Hampshire**
Kingsbury Hall, Room N101
Durham, NH

DIRECTIONS: NH Route 4 or 125 to the Lee Traffic Circle, continue on NH Route 4 east to Route 155A (Main Street). Take College Road to Lot B (near McConnell Hall). See SENH website for campus (parking) and Kingsbury Hall maps.

NOTE: No parking is allowed in Lot B prior to 6:00 pm.

AGENDA: 6:15 pm-6:30 pm Registration
6:30 pm-7:15 pm Social Hour and Dinner
7:15 pm-7:35 pm Business Meeting
7:35 pm-9:00 pm Presentation

DINNER: Pizza

COST: Member: \$15.00 - Non-Member: \$20.00
Student Member: FREE - Full Time Student: \$5.00

RSVP: by Friday, March 4, 2011. There will be a \$5.00 late fee for anyone wishing to RSVP past the Friday, March 4, 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

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 January 2011 Meeting Minutes

Business Portion of the Meeting

1. SENH President Sean James, PE began the membership meeting.
2. The board has approved the budget for the upcoming year.
3. Bob Durfee donated Gunstock lift tickets to raffle during this meeting to benefit the scholarship fund - \$140 was raised.
4. A seminar is scheduled for April 1 for a 1/2 day building topic having pdh approval for states which include New York.
5. Engineer's Week Banquet is scheduled for February 17 in Manchester.
6. The next Joint Engineer's Conference is scheduled for October 6 in Manchester.
7. Jeff Tirey PE gave a sneak preview of the new website which is under construction. The PR committee is trying to make the site more user friendly to the public as well as providing opportunities for members to participate in the website. Member participation opportunities include company contribution of project photos at no charge, engineer locator (by name, location, PE state of registration, or by certification), and company business card ad for \$100 per year which includes link to website or linked profile.

State of the Union Overview on New Hampshire Bridges by Mark Richardson, P.E., Administrator of the NHDOT Bureau of Bridge Design

The Portsmouth, NH – Kittery, ME Bridges are in serious need of attention and all three bridges are needed to address traffic volume. The Memorial Bridge is scheduled to be replaced by design build contract starting in 2011 and is scheduled for completion by October 2013; the Sarah Long Bridge is scheduled for rehabilitation or replacement starting in 2016; and the I-95 high level bridge is scheduled for rehabilitation.

Major Bridge and highway projects underway include the Spaulding Turnpike in Rochester (3 projects - 21 bridges - \$70 M) and Newington / Dover Bridge (\$58 M), Lebanon –Harford VT bridge (\$2.7M), Portsmouth Route 1 Bypass – 5 bridges, and I-93 Widening – Salem to Manchester.

In New Hampshire, a bridge is defined as having a span greater than 10 feet. “Red List” bridges currently include 155 state bridges and 373 municipal bridges. “Near Red List” bridges currently include 256 state bridges and 291 municipal bridges. “Green List” bridges currently include 1685 state bridges and 953 municipal bridges. “Closed” bridges currently include 40 state bridges and 53 municipal bridges. 50% of NH bridges were constructed after 1976, and 54% of state bridges were designed for modern highway loads.

Ice Design for Bridges by Leonard Zebilansky, P.E., Army Corps of Engineers Cold Regions Research & Engineering Laboratory, Hanover, NH

Topics included resources to characterize ice thickness, characterize the source of the ice force, modes of failure and calculation, design considerations to reduce ice force, ice induced bridge scour, and discussion of Corps of Engineers Manual for Ice Engineering.

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

Attendance List

State of the Union Overview on New Hampshire Bridges & Ice Design for Bridge Structures
The Grappone Center, Concord, NH
(2.0 PDH's)
January 13, 2011

Name	Organization
Dana Michael Adams, P.E.	De Niro Construction
Geoffrey R. Aleva, P.E.	Civil Consultants
Josh H. Bartlett	Boise Structural Solutions
H. Edmond Bergeron, P.E., SECB	HE Bergeron Engineers
Josif Bicja, P.E.	Hoyle, Tanner & Assoc., Inc.
Jason Blais, P.E.	Opechee Construction Corp.
James Bouchard	Quantum Construction Consultants, LLC
Steve Boyington	Jacobs Engineering Group
Michael A. Brassard	Dubois and King
Robert S. Busby, P.E.	Kalwall Corporation
John Byatt, P.E.	CLD Consulting Engineers, Inc.
Normand G. Cote, P.E., SECB	NGC Structural, LLC
Tony Coviello, P.E.	Summit Engineering, PLLC
Cheryl W. Coviello, P.E.	Vine Associates
G. Keith Donington, P.E.	Parsons , Brinckerhoff, Quade & Douglas, Inc.
Jon Downing	TFMoran, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.
Joel Fisher, P.E.	Fisher Engineering, P.C.
Tim Foy	University of New Hampshire
Anna E.G. Giraldi, E.I.T	Quantum Construction Consultants, LLC
Peter J.L. Griem, P.E.	Hoyle, Tanner & Assoc., Inc.
Sean James, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Roger Keilig, P.E.	HTE Northeast, Inc.
Paul Kirby, P.E.	The Louis Berger Group, Inc.
Stephen Kiss, P.E.	SAK Engineering
Krystian E. Kozlowski	Kleinfelder/S E A Consultants Inc.
Thomas E. Lamb	TFMoran, Inc.
Stephen R. Langevin, P.E.	TEC, Inc.
Thomas Levins, P.E.	The Louis Berger Group, Inc.
Matthew J. Low, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Josh Lund, P.E., SECB	Stantec
Thomas Marshall, P.E.	Kleinfelder SEA
Lisa M. Martin, P.E.	Quantum Construction Consultants, LLC
Donald F. Mayo, P.E.	Donald F. Mayo, P.E.
Kenneth W. Milender, P.G., P.E.	Miller Engineering & Testing, Inc.
John T. Poisson, II, E.I.T.	Hoyle, Tanner & Assoc., Inc.
Neil J. Rapoza, P.E.	Civil Consultants
Mark Richardson, P.E.	NHDOT
Paul Sbacchi, P.E.	TFMoran, Inc.
Miles P. Stetson, E.I.T.	The H. L. Turner Group, Inc.
Adam M. Stockin, P.E.	Parsons , Brinckerhoff, Quade & Douglas, Inc.
John G. Stockton, P.E.	The Louis Berger Group, Inc.
Jeffrey L. Tirey, P.E., SECB	Tirey & Associates, P.C.
Eric Truebe	Lakeside Engineering, Inc.
Johnathan B. Truebe, P.E.	Lakeside Engineering, Inc.
Christopher M. Vick, P.E.	Concrete Systems, Inc.
Edward Weingartner, P.E.	Hoyle, Tanner & Assoc., Inc.
John J. Wilson, P.E.	Jacobs Engineering Group
Stephen Wolf	CONTECH Construction Products Inc.
Leonard Zabilansky, P.E.	ACOE Cold Regions Research & Engineering Laboratory

UNH Career & Internship Fair *by Linda McNair-Perry, P.E., SECB*

The sun is higher in the sky, the snow is melting, and very shortly UNH students will be gathering at the Spring Job Fair looking for gainful employment or summer internships. Once again SENH will have a representative (or two) at the fair to converse with and mentor the students. As in the past, we will gather resumes from those students who would like us to share them with interested SENH members. If you are one of those interested potential employers, please send me an e-mail to lperry@sfceng.com. Send along any information you would like me to share with the students. And last, but not least, contact me if you are interested in manning the SENH table at the "All Majors Career & Internship Fair" on March 7th from 12-4 in the Memorial Union Building. We continue to encourage our members to consider hiring UNH students for formal or informal internships.

2011 Regional ASCE/AISC Student Steel Bridge Competition *by Linda McNair-Perry, P.E., SECB*

Another spring event is fast approaching. The students at UNH have been at work preparing for steel bridge competition at the 2011 New England Regional ASCE Conference, which will take place at L'Université Laval located in Québec City on April 29-30, 2011. They will compete with a dozen other universities for the opportunity to go to the nationals in Texas. The steel bridge, along with the concrete canoe, are now included as UNH Senior Projects. The students doing the steel bridge have completed their design for the 1:10 scale model, checked it twice (maybe even thrice), taken receipt of the steel and plan to do all of their own fabrication on campus this year.

Straight from their website "the mission of the ASCE/AISC Student Steel Bridge Competition (SSBC) is to supplement the education of civil engineering students with a comprehensive, student-driven project experience from conception and design through fabrication, erection, and testing, culminating in a steel structure that meets client specifications and optimizes performance and economy. The SSBC increases awareness of real-world engineering issues such as spatial constraints, material properties, strength, serviceability, fabrication and erection processes, safety, esthetics, and cost." I could not have said it better myself.

In 2008, SENH put out the call to our members for volunteer judges at the competition that was taking place at UNH that year. The 2011 competition, is taking place north of the border after having been in Boston the last two years. We have at least one intrepid member, Keith Donnington, P.E., who is going to make the journey to judge for his fourth year in a row. When I asked him why, he said that he valued the opportunity to see the students in action and to mentor them. To see their energy, excitement, and thirst for knowledge reminds him of why he chose structural engineering as a profession. There is also the opportunity to interact with the other judges who are colleagues in the same field.

2011 Scholarship

The applications for the scholarship have been received by the Public Relations Committee and are in the process of being reviewed. The winners will be announced shortly.



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Space Still Available

Fill out the enclosed sponsorship form and see your advertisement here!



NATIONAL COUNCIL OF STRUCTURAL ENGINEERS ASSOCIATIONS

Letter to SEA's
JANUARY/FEBRUARY, 2011

Dear Delegates of our NCSEA Member Organizations:

Happy 2011! I hope that you and your family had a wonderful holiday season and your firms are off to a good start for the New Year. My name is Jim Malley, and I have the honor of being NCSEA President for 2010-2011. NCSEA is planning to communicate with our Delegates and Member Organizations more frequently this year, including letters such as these, and at least two web-based meetings that hopefully will be attended by Delegates and/or leaders of all NCSEA Member Organizations.

One of the challenges that NCSEA continually faces is ensuring that our individual members are aware of all the good work that is being done on their behalf, and to assist the work of their statewide and local Member Organizations. Being the "National" organization naturally results in making it difficult to communicate in a way that each individual engineer has an accurate understanding of the ongoing activities. Listed below is a partial list of NCSEA activities, with the volunteer committee primarily responsible noted in parentheses.

- Provide practicing engineers access to the development and revision process for codes and standards (Code Advisory)
- Advocate positive changes in the building code development process (Code Advisory)
- Enhance the image of structural engineers in the eyes of the general public (Advocacy)
- Educate the media to encourage them to seek structural engineers for commentary on issues that pertain to structural engineering (Advocacy)
- Convey accurate information to the general public relative to structural-engineering-related events (Advocacy)
- Educate other design professionals and potential clients about the role, value and importance of structural engineers (Advocacy)
- Educate elected officials about the importance of structural engineers in order to gain their support for SE licensing legislation, Good Samaritan Acts, mandatory peer review, and QBS (Advocacy)
- Encourage students to pursue careers in structural engineering (Advocacy)
- Develop publications to assist engineers with difficult and poorly understood areas of practice (Publications)
- Advocate for structural engineering degree programs (Basic Education)
- Enhance communication thru NCSEA website improvements, the Member Organization Delegate Handbook, and monthly e-newsletters sent to all MO members (NCSEA Office)
- Provide meaningful, practical and convenient continuing education opportunities at reasonable prices, such as Webinars, annual Winter Institute and Conference (Continuing Education)

- Provide national support for pursuing separate structural licensing on a state-by-state basis (Licensing)
- Pursue improvement in the level of competence and standard of practice of the structural engineering profession throughout the U.S. (Licensing)
- Work toward establishing a national Structural Engineering Emergency Response (SEER) network to link state SEER groups, as well as help promote in-state Good Samaritan laws (SEER)
- Provide reasonably-priced ATC-20 and ATC-45 training for MO's (Continuing Education)
- Continuously update the NCSEA SEER Manual (SEER)
- Encourage communication and interaction between member organizations, their committees, and NCSEA committees (NCSEA Office)
- Revitalize existing, and create new, state SEAs (Membership Development)
- Publish STRUCTURE, the leading monthly publication for, by, and about structural engineers and their practice (Publications – Editorial Board, NCSEA Office)

A few of these items are noted as being a responsibility of the NCSEA Office. In addition to these items, our office staff supports and spurs our committees to complete all of their tasks and goals. Led by Executive Director Jeanne Vogelzang, they are critically vital to our success, working collaboratively alongside the volunteer efforts of our members.

In addition to these ongoing activities, recent NCSEA accomplishments include:

- Successful participation of the Code Advisory Committee (CAC) in representing practicing SE's on numerous proposed changes to the 2009 IBC. Positions taken by the CAC were upheld on issues related to simplified wind provisions, seismic retrofit of existing buildings, numerous seismic design issues, quality assurance/quality control, and design related to progressive collapse.
- Survey of educational institutions for structural-engineering-related courses offered and publication of the results in the May 2010 issue of STRUCTURE magazine, in the interest of improving the technical and practical quality of education for structural engineering students.
- Publication of two NCSEA books and short courses offered throughout the U.S. (*Guide to the Design of Diaphragms, Chords and Collectors Based on the 2006 IBC and ASCE/SEI 7-05* and *Guide to the Design of Out-of-Plane Wall Anchorage Based on the 2006/2009 IBC and ASCE/SEI 7-05*).
- Formation of five new member organizations, in Alaska, Mississippi, North Carolina, Pennsylvania, and Wisconsin.
- New SE Practice acts in Utah and Washington. Active support of MO's pursuing new SE Acts in Florida, Texas, Nebraska, Ohio, Alaska and Georgia.
- Signing of an agreement with the International Code Council (ICC) Evaluation Service to assist ICC with the technical review and acceptance of structural products.
- Establishment of a successful ongoing series of webinars for members, that focuses specifically on the educational needs of practicing structural engineers.
- Development of a review/refresher course specifically designed for the new NCEES Structural Engineering examination, given for the first time this January and February, prior to the first time the new SE test is being given.

- Monthly e-newsletters to update the membership on activities and issues of interest.

In addition to our ongoing activities, I am greatly looking forward to working with the Board, our NCSEA staff, NCSEA Committees, and our Member Organizations over the next year to carry out the Vision and Mission of NCSEA that we reconfirmed last year:

Vision: NCSEA and its Member Organizations constitute the premier professional society for practicing structural engineers in the United States of America.

Mission: NCSEA serves to advance the practice of structural engineering and, as the autonomous national voice for practicing structural engineers, protect the public's right to safe, sustainable and cost effective buildings, bridges and other structures.

One of the Board's first actions this year was to finalize and approve NCSEA's Strategic Plan. As the President in the first year of the five year Strategic Plan, my goal is to ensure that we get off to a good start toward achieving the six main goals outlined in the plan. They are simply stated as:

External Goals

1. Promote the Profession
2. Represent the Profession
3. Improve the Profession

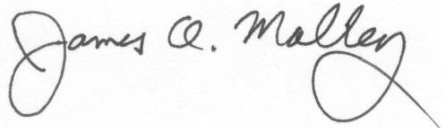
Internal Goals

1. Encourage and Support the Member Organizations
2. Energize Committee Activity
3. Ensure Financial Security

The Strategic Plan has a great deal of detail as to how we plan to achieve these goals. While I am certain that we will make good strides forward on all six goals this year, I plan to place emphasis on areas where NCSEA can continue to expand our service to our Member Organizations and their individual members. I pledge that we will strive to serve the varied needs of all our Member Organizations to the maximum extent possible during the coming year.

As with any volunteer-based organization, there are numerous activities and functions where Delegates, Member Organization leaders, and individual members can become involved and make significant contributions to the future success of NCSEA and our profession. We urge each of you to consider joining us in NCSEA's effort to serve our profession and help protect the public safety. If you have questions about NCSEA's activities, program, or how they relate to those of your Member Organization, please feel free to contact me, or NCSEA Executive Director Jeanne Vogelzang, via the NCSEA website at www.ncsea.com. If you do decide to actively participate, I believe that you will find it to be a stimulating and rewarding experience.

Thank you for all that you do, and will do, to promote, represent and improve our profession.



James O. Malley
NCSEA President, 2010-2011



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



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.

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



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

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.



Semi-Rigid Diaphragms and Other Practical Structural Engineering Design Examples: Based on the 2006/2009 IBC and ASCE/SEI 7-05

COURSE DESCRIPTION:

The 2006/2009 International Building Code (IBC) and ASCE/SEI 7-05 contain a variety of requirements that are difficult for structural engineers to apply during routine practice. To make matters worse, finding practical example problems with realistic design constraints is an arduous task at best. Some of the most commonly mentioned topics include:

- Semi-rigid diaphragms (seismic and wind)
- Sloped diaphragms
- Seismic joints and sliding connections
- Simplified dynamic analysis to include alternate means and methods commonly used in design (to save the client money)
- Design and detailing for heavy wheel loads (i.e., fork trucks) on elevated slabs

Using concept oriented instruction and real world practical examples, Dr. Mays covers these topics and more in this new short course. As always, Dr. Mays uses hand calculations, simple statics, and easy to understand examples to verify the accuracy of models prior to utilizing them in the course's more complex examples. This new course is sure to challenge the young engineer to think while offering the seasoned structural engineer excellent design examples that currently do not exist in the literature. Note that a few of the topics (e.g., semi-rigid diaphragms) covered in the course require some degree of elementary computer modeling to determine seismic and wind demands. In such cases, computer results will be provided during the course and these results will not be software program specific. Most, if not all, commonly used structural analysis programs may be used to obtain the results as presented in the course.

Course hours are approved for FL and NY through the National Council of Structural Engineers Associations.

Space is limited. Please register early.

WHAT DO ATTENDEES RECEIVE?

- 4.0 Professional Development Hours
- Binder of Complete Course Notes and Example Problems Worked During the Course
- Access to freeware used for some topics
- Breakfast

SCHEDULE:

7:30 – 8:00	Registration/Breakfast
8:00 – 8:45	Semi-Rigid Diaphragms - Modeling
8:45 – 9:30	Semi-Rigid Diaphragms - Design and Detailing
9:30 – 10:00	Sloped Diaphragms/Seismic Joints
10:00 – 11:15	Simplified Dynamic Analysis
11:15 – 12:00	Elevated Slab Design for Heavy Wheel Loads

COURSE INSTRUCTOR:

Timothy Wayne Mays, Ph.D., P.E. is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays recently served as Executive Director of the Structural Engineers Associations of South Carolina and North Carolina. He currently serves as NCSEA Publications Committee Chairman. He has received two national teaching awards (ASCE and NSPE) and both national (NSF) and regional (ASEE) awards for outstanding research. He is the recipient of the 2009 NCSEA Service Award. He is a prolific speaker who sits on several code writing committees and his areas of expertise are code applications, structural design, seismic design, steel connections, structural dynamics, and civil engineering aspects of antiterrorism.



Semi-Rigid Diaphragms and Other Practical Structural Engineering Design Examples: Based on the 2006/2009 IBC and ASCE/SEI 7-05

Registration Form

DATE AND LOCATION*:

March 31, 2011 – Manchester, NH
Holiday Inn
2280 Brown Avenue
Manchester, NH 03103

April 4, 2011 – Portland, ME
Holiday Inn - By the Bay
88 Spring St
Portland, ME 04101

April 5, 2011 – Boston, MA
Doubletree Guest Suites Boston
400 Soldiers Field Road
Boston, MA 02134-1893

To Register, please complete the application below and fax it to SE/ES at (803) 753-9296 (or send via mail to the SE/ES address below). Confirmation packages will be delivered by E-mail. E-mail questions to SE/ES at the address listed at the bottom of this page. All checks should be made payable to SE/ES.

Name: _____
Company: _____
E-mail: _____
Address: _____
City: _____ State: _____ Zip: _____
Daytime Phone: _____
Fax: _____
Amount Enclosed with Check: _____
MC VISA
Credit Card Number: _____
Name on Card: _____
Card Expiration Date: _____
Signature: _____



Florida License Number (for reporting hours): _____

COST:

- \$109 - if received by March 18, 2011
- \$129 - if received after March 18, 2011
- \$49 - unemployed and full-time student special rate

\$20 discount for each additional registration from the same company (e.g., 3 people from the same company pay 1 x \$109 + 2 x \$89 = \$287)

**Structural Engineering
and Education Solutions, LLC**
1536 Clarendon Way Mt. Pleasant, SC 29466
Email: timothymays@bellsouth.net
Tel: 843.813.6884 Fax: 803.753.9296



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

Tuesday, March 8, 2011

Tuesday, May 17, 2010

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