



President's Letter



"Change is inevitable. Change is constant." - Benjamin Disraeli

The SENH Board of Directors (Board) will be changing this year with Tony Coviello and Kyle Roy stepping down from their current positions. It has been a pleasure to work with them on the Board and I would like to thank them both for their hard work, dedication and perspectives that they bring to SENH. I have no doubt that they will remain active in SENH and continue to help improve our organization.

Our next meeting is our annual meeting during which we will elect new Board members. Based on recommendations from the nomination committee, the Board is recommending Bob Champagne and Adam Stockin for the open positions. The meeting will also include attendance and a brief presentation by NCSEA president Tom DiBlasi. I encourage all our members to attend and bring any questions, comments or concerns that you may have regarding our parent organization NCSEA.

SENH routinely offers seminars to benefit our members, two of which are detailed in this newsletter. The 'Fracture Critical Inspection Techniques for Steel Bridges' deserves special mention as it is the first time that SENH has sponsored a National Highway Institute (NHI) seminar. The NHI is a division of the Federal Highway Administration which provides transportation-related training on a limited basis at locations throughout the country. Offering this course in Concord allows our members to receive national certification without the time and expense of traveling to other states where this is being offered (NY, NC, IA & AL). Special thanks goes to SENH Vice-President Josh Lund for organizing the seminar and to the NHDOT for allowing us the use of their facilities.

2011-2012 SENH BOD Goals

For the upcoming SENH calendar year, the SENH Board has set three goals for the upcoming year which will be updated in each newsletter:

• **Scholarship** - Establish a dedicated fund for SENH scholarships. This was a goal from last year that needs additional research over the next year. **Input on the focus of the scholarship fund will solicited at our May meeting.**

• **Improved Record Keeping** - SENH has existed as a formal organization since 1995 and since that time a number of documents, email, etc has been generated. This goal includes central storage of past and future documents as well as policies for future record retention. **The process of digitizing past SENH records and research for web-based storage solutions is ongoing.**

• **Finalize SENH Policies** - Over the past several years, the SENH Board of Directors have prepared and approved 15 policies to help guide the organization and improve continuity (see <http://www.senh.org/by-laws#Policies>). There are several additional policies in development that will be finalized over the next year so that all incomplete polices have been addressed. **The final two unfinished SENH polices were discussed at our last Board meeting and should be finalized in May.**

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:President@senh.org>.

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Special Points of Interest/ Reminders:

- *The May Meeting is May 8th. See inside for details.*
- *Fracture Critical Course—June 25th—28th. See flyer inside for details.*

New Hampshire Building Code Review Board, *Submitted by Linda McNair-Perry, P.E., SECB*

Legislative Update for HB-137

The NH Senate Public and Municipal Affairs Committee held a hearing for the amended HB-137 on March 27th with [streaming audio](#) available. This bill, among many other things, was to ratify the decision by the NH Building Code Review Board (BCRB) to update the state building code to the 2009 International Building Code with amendments in accordance with RSA 155. The bill's [docket](#) summary and a Fire Prevention Society [position paper on HB-137](#) offer background on this extensive building and fire code related legislation. The point of contention surrounding fire code enforcement with regards to new construction is this bill is holding up the ratification of the building code updates.

This failure by the legislature to ratify the decision by the board to update the code as permitted by the RSA 155, technically means that the NH State Building Code updates have expired and the NH State Building Code has reverted to the 2006 IBC, IRC, IMC and IPC as amended. The updates by the BCRB to the 2011 National Electric Code (with amendments) remains unchanged. As a practical matter the BCRB is suggesting that code officials and design consultants continue to allow for the option of using the 2009 codes. It is **strongly recommended** that you consult with your local building officials to determine which code they will require for project documents submitted to their town for a permit during this unfortunate interim period.

HB-137 is now in a 'compromise' committee where they will try to iron out some of the major disagreements. If you are interested, please contact any/all/ our State Senator(s) to let them know that it is not in NH's best interest to see the building codes rolled back to 2006 editions.

Newly Elected Vice-Chair

At the March 2012 meeting of the New Hampshire Building Code Review Board, Linda McNair-Perry was elected as Vice-Chair. This is a new position that was created in recently updated Building Code Rules (BCR). Linda is working with a web site sub-committee to get the board website corrected and updated properly.

Special Inspections Flyer

When the website got updated some documents that were previously posted disappeared. One in particular came to our attention when it was reported in a STRUCTURE magazine article that our website was good place to find a flyer explaining the basics of *Special Inspections*. And recently one of our members noted its absence when attempting to direct a new building official to the SENH site.

So without much fanfare we resurrected the Special Inspections Committee to update the flyer. It will be getting it posted on the SENH website shortly. Some other SEAs currently have broken links to the missing document that we will try to get corrected as well.

Meet the President

Tom DiBlasi, P.E. President of NCSEA will be in attendance at our meeting on May 8th in Manchester. Come to the meeting early (social time) to meet Tom and discuss issues of interest to Structural Engineers on the National Level.

Tom is a practicing Structural Engineer (Buildings), and President of DiBlasi Associates, P.C. in Monroe, Connecticut.

President DiBlasi will make a brief presentation about NCSEA during the Business Portion of our meeting and answer questions.

It may not be often that as a structural engineer you need to peruse the National Fire Protection Association (NFPA) codes and standards, but just in case here is some good news. NFPA is providing free on-line (read-only) public access to the NFPA docs.

You can get to it through the links page on the NH Building Code Review Board.

MAY MEETING ANNOUNCEMENT

NEXT MEETING: **Tuesday - May 8, 2012**

PRESENTATIONS: **The Specification, Design, Manufacture, and Installation of Cold- Formed Steel Trusses:** *presented by Aegis Metal Framing LLC* – A comprehensive look at Cold-Formed Steel Trusses including their history, current market, typical applications, design parameters and cost implications.

Tom DiBlasi, P.E. President of NCSEA will discuss issues of interest to Structural Engineers on the National Level.

SPEAKERS: **Douglas Phelps** - Northeast & Mid-Atlantic Sales & Marketing Representative
Tom DiBlasi - NCSEA President

PLACE: ***The Yard Restaurant***
1211 South Mammoth Rd
Manchester, NH 03109

DIRECTIONS: From I-293 & 101 - Take exit 1, head south on Route 28 (South Willow Street) and bear left after Super Shoes Factory Outlet. Stay on Route 28 South about 1 mile and enter on your left.

AGENDA: 5:30 pm-6:30 pm Social Hour
6:30 pm-7:15 pm Dinner
7:15 pm-7:30pm Business Meeting
7:30 pm-9:00 pm Presentations

DINNER: Buffet with choice of Fresh Baked Chicken, Roast Round Top of Beef Au Jus, or Tortellini Alfredo

COST: SENH Member: \$45.00 Non-Member: \$55.00 Full Time Student: \$10.00

RSVP: by Tuesday May 1st. 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.

March Meeting Attendance List & Meeting Minutes

Overview of the Memorial Bridge Project in Portsmouth & UNH Steel Bridge Team Update

University of New Hampshire (2.0 PDH's) March 6, 2012

Name	Organization	Name	Organization
Anabelle Allen	UNH - Steel Bridge Team	Ryan D. Henley	University of New Hampshire
Matthew Allen, P.E.	JSN Associates, Inc.	Sean James, P.E.	Hoyle, Tanner & Assoc., Inc.
Paul Armano	Parsons Brinckerhoff	Thomas T. Kendrick, P.E.	McFarland-Johnson, Inc.
Vincenzo P Bartucca	University of New Hampshire	Tom Kilrain, P.E.	Department of Navy
Shannon Beaumont	CLD Consulting Engineers, Inc.	Thomas E. Lamb, P.E.	TFMoran, Inc.
Lily Beyer	Hoyle, Tanner & Assoc., Inc.	Bob Landry, P.E.	NHDOT
Ronak P. Bhatia	University of New Hampshire	Thomas Levins, P.E.	The Louis Berger Group, Inc.
Josif Bicja, P.E.	Hoyle, Tanner & Assoc., Inc.	Benjamin Longchamp	
Stephen Boyington, PE	Jacobs	Jonathan M. Longchamp, P.E., SECB	Daigle Engineers, Inc.
Sean Brown	University of New Hampshire	Matthew J. Low, P.E.	Hoyle, Tanner & Assoc., Inc.
Jay H. Brown, P.E.	Structural Systems, Inc.	Josh Lund, P.E., SECB	McFarland Johnson, Inc.
Alex Buessing	UNH - Steel Bridge Team	Thomas Marshall, P.E.	Kleinfelder SEA
Robert S. Busby, P.E.	Kalwall Corporation	Patrick Massicotte	University of New Hampshire
John Byatt, P.E.	CLD Consulting Engineers, Inc.	Matt Mastrogiacomo	University of New Hampshire
Nicholas D. Caron, EIT	The Louis Berger Group, Inc.	Eric Ohanian	University of New Hampshire
Ethan Carrier	University of New Hampshire	Ryan Parker	University of New Hampshire
Lou Cote	Steffensen Engineering Assoc., Inc.	Daniel Patterson	University of New Hampshire
Ethan Cote	University of New Hampshire	Linda McNair-Perry, P.E., SECB	SFC Engineering Partnership, Inc.
Normand G. Cote, P.E., SECB	NGC Structural, LLC	John T. Poisson, E.I.T.	McFarland-Johnson, Inc.
Edward F. Decelle	Structural Systems, Inc.	Josh Reilly	Structural Systems, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Ross Robertson	UNH - Steel Bridge Team
Jesse Fand	UNH - Steel Bridge Team	Richard A. Rouleau, P.E.	Consultant
William Finneran	University of New Hampshire	Kyle Roy, P.E., SECB	Tower Hill Engineering, PLLC
Jon Gatarz	University of New Hampshire	Curt Spencer	University of New Hampshire
Roger W. Gayer, P.E.	Structures Unlimited, Inc.	Adam M. Stockin, P.E.	Parsons Brinckerhoff
Martin Gorham, P.E., LEED	JSN Associates, Inc.	John G. Stockton, P.E.	The Louis Berger Group, Inc.
James Grant, E.I.T.	JSN Associates, Inc.	Edward Weingartner, P.E.	Hoyle, Tanner & Assoc., Inc.
Timothy L. Grant, P.E.		Jeffery R. Karam, P.E., LEED	Summit Engineering, PLLC
Jim Hall	McFarland-Johnson, Inc.	Larry VanDessel	University of New Hampshire
Kayla Hampe	Lehigh University, Bethlehem PA	Rachel Beaudry	University of New Hampshire
Robert S. Hartford, P.E.	Kalwall Corporation		

Business Portion of the Meeting

SENH President Sean James, PE began the meeting with a brief introduction of the presentation speakers. Since the next board of directors meeting has not yet been held, there was no new business to discuss at this time.

Presentations

Mr. Robert Landry, Project Manager, NHDOT, gave a comprehensive overview of the Memorial Bridge Project in Portsmouth, NH.

The UNH Steel Bridge Team presented an update on their progress for this year's competition. The bridge components have been fabricated, and they will be ready to assemble their bridge this week in preparation for the regional competition.

The UNH Concrete Canoe Team presented an update on their progress for this year's competition. This year's canoe design promises to be lighter than previous designs

2.0 PDH's for the technical presentation was earned by attendees.

Respectfully submitted,
Norm Cote, PE, Secretary

Nationals Here We Come, *by Anabelle Allen, President, UNH ASCE*

That's right, the UNH Steel Bridge Team will be heading to Nationals for the second year in a row. UNH placed 3rd out of 13 teams in this year's New England Regional Competition, right behind Université Laval and MIT. This year's rules brought some fierce competition between the New England Teams, but the top 3 broke ahead of the pack and were clearly the most competitive. However, we definitely have some work to do before Nationals.

Our strongest category was our deflection ranking 2nd behind MIT. We also had a very competitive weight and construction time, placing 3rd in both categories. We have extensive plans to make these even more competitive too. Since we are allowed to modify the bridge between regional and national competitions we have big plans to re-design some of the components of the bridge to make it lighter and easier to construct.

The 2012 National competition will be held at Clemson University in South Carolina the weekend of May 25th and 26th. We are currently in the process of fundraising to pay for the trip and any sort donation would very much be appreciated. Thank you to SENH for helping us get this far!



The 2012 SBT: L to R: Sean Brown (Junior), James Halsey (Junior), Rachel Beaudry (Sophomore), Jesse Fand (Senior), Anabelle Allen (Senior), Ross Robertson (Senior), Alex Buessing (Senior), Nicholas Balzano (Senior), Mary Donlon (Junior), Jon Tatone (Junior), Tristan Donovan (Junior), Devon Christen (Sophomore). Also not shown are two very important members to our team: Dr. Goodspeed (Faculty Advisor) and Jon Culp-Yu (Graduate Student Advisor).

NOTE: Graduation at UNH this year is the weekend before Nationals, so it is nice that the Seniors can compete at National without having to miss their big day.

UNH Reminders and Announcements, *Submitted by Linda McNair-Perry, P.E., SECB*

Linda McNair-Perry has resumes for students for both full time work and for internships that were collected at the Spring Career Fair and that are meant to be shared with interested SENH members. Contact her at lperry@sfceng.com.

Congratulations to Ryan McNabb and Sean Brown who are this year's SENH scholarship winners. Both have received a scholarship in the amount of \$500.00. A thank you also goes to our membership for your generous donations and contributions to our raffles. This program is not possible without your support.

Congratulations to SENH member Dr. Ray Cook who won the 2012 Jean Brierley Excellence in Teaching Award. This annual award recognizes his excellence in teaching as a UNH faculty member and acknowledges his long-term distinguished career at UNH.

SENH would like to congratulate the UNH Steel Bridge Team and good luck at Nationals. We will be having a raffle at the next SENH meeting to benefit the team. If you have any items/gift cards/tickets for events please let Sean know.

ASCE's Northeast Regional Concrete Canoe Competition is being held at UNH on Saturday, April 21st at Ayer's Lake Campground in Barrington. The schedule for this event is as follows:

- 7-9am: Arrival at lake and canoe setup
- 9-11am: Display Judging and Sink Test
- 11am-12pm: First Round of Races
- 12pm: Lunch
- 12-5pm: Racing

One final reminder for the [UNH Civil Engineering Alumni Conference](#) on April 30th. The Conference is sponsored by alumni for the benefit of the UNH Civil Engineering students, with the objective of making it a valuable experience for all attendees.

Our Sponsors



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Employment Opportunities



SENIOR HIGHWAY PROJECT MANAGER
Seeking an energetic individual experienced in developing highway scoping, design and traffic projects in New Hampshire. Experience should include developing projects for NHDOT, NH municipalities and regional Planning Commissions. Qualified candidates must possess a NH P.E. license and ideally will have 10+ years of experience. Candidates will be required to manage the development of projects, interface with clients and direct a staff of junior engineers and technicians. Location: Bedford or Laconia, NH. Competitive salary, excellent fringe benefit program, ESOP Company.

BRIDGE ENGINEER
A Bridge Engineer with a minimum of 8-10 years experience is needed for our busy and growing Bridge Engineering Group. Duties include the evaluation, planning, design and construction administration of Federal, D.O.T. and municipal bridge projects and programs. Bridge Design Team Management/ Leadership experience and client relationship and business development experience desired. Bachelor's of Science Degree in Civil Engineering (BSCE) required, Master's Degree (MS or MSCE) a plus. Experience with AutoCAD and/or MicroStation desired. Experience with AASHTO standards required, experience with NHDOT and VTrans standards a plus. VT/NH P.E. required or ability to obtain. Location: Bedford or Laconia, NH. Competitive salary, excellent fringe benefit program, ESOP Company.

Visit our website at: <http://www.dubois-king.com>. Send resume to: DuBois & King, Inc., P.O. Box 339, Randolph, Vermont 05060
Fax: 802.728.4930 Email: Human.Resources@dubois-king.com

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SENIOR HIGHWAY ENGINEER/PROJECT MANAGER
Seeking an energetic individual experienced in developing highway scoping, design and traffic projects in New Hampshire. Experience should include developing projects for NHDOT, NH municipalities and regional Planning Commissions. Qualified candidates must possess a NH P.E. license and ideally will have 8 - 10 years of experience. Candidates will be required to manage the development of projects, interface with clients and direct a staff of junior engineers and technicians. Position location: Bedford or Laconia, NH. Competitive salary; excellent fringe benefit program, ESOP Company.

SENIOR BRIDGE ENGINEER/PROJECT MANAGER
A Bridge Engineer with a minimum of 8 - 10 years experience is needed for our busy and growing Bridge Engineering Group. Duties include the evaluation, planning, design and construction administration of Federal, NHDOT/VTRANS and municipal bridge projects and programs. Bridge Design Team Management/Leadership experience and client relationship and business development experience desired. Bachelor's of Science Degree in Civil Engineering (BSCE) required, Master's Degree (MS or MSCE) a plus. Experience with AutoCAD and/or MicroStation desired. Experience with AASHTO standards required, experience with NHDOT and VTrans standards a plus. VT/NH P.E. required or ability to obtain. Position location: Bedford or Laconia, NH. Competitive salary; excellent fringe benefit program, ESOP Company.

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Email: rgoodall@dubois-king.com

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Monday, June 25, 2012 – Thursday, June 28, 2012

FHWA-NHI 130078

Fracture Critical Inspection Techniques for Steel Bridges

NHDOT Large Conference Room #114, 7 Hazen Drive, Concord, NH

Monday through Wednesday 8:00AM – 4:30PM

Thursday 8:00AM – 2:00PM

\$1,000 SENH Members - \$1,100 Non-Members

Registration fee includes course materials and continental breakfast.

The course curriculum for this training reflects current practices, while addressing new and emerging technologies available to bridge inspectors. In addition, the course features exemplary training; hands-on workshops for popular types of nondestructive evaluation (NDE) equipment; and a case study of an inspection plan for a fracture critical bridge.

The first day of the training focuses on the concept of fracture critical members (FCMs), FCM identification, failure mechanics, fatigue in metal, and an overview of NDE methods. Day two includes demonstration sessions and hands-on applications of NDE techniques for dye penetrant, magnetic particle testing, Eddy current testing, and ultrasonic testing. Days three and four emphasize inspection procedures and reporting for common FCMs, including problematic details, I-girders, floor beams, trusses, box girders, pin and hanger assemblies, arch ties, eyebars, and cross girders/pier caps. The course will conclude with a case study detailing the preparation of an inspection plan of a fracture critical bridge.

Registration:

Registration for SENH members only through Friday, May 4, 2012

Open registration starting Monday, May 7, 2012

Registration deadline: Friday, June 1, 2012

This program is limited to 20 participants. Registrations will be accepted on a first-come first-served basis. Payment is due within 1 week of registration. Cancellations received after June 1, 2012 and no-shows will be billed.

Register by mail or e-mail to:

Hoyle, Tanner & Associates, Inc.
Attn: Deb Coon
150 Dow Street
Manchester, NH 03101
dcoon@hoyletanner.com

Send payment to above address.





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

WWW.SENH.ORG



Member of

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

Tuesday, May 08, 2012.

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