



President's Letter

There is something very enjoyable about rewarding someone who does so much for others. Lonely and tedious can be the nights spent volunteering, when you could be home with your family.

That's why I was very pleased to hear that one of our own was recently awarded the Engineer of the Year honor by the Joint Engineering Societies of New Hampshire. Jeff Tirey, PE, one of SENH's founders, will be receiving this award on February 18th at the annual Engineer's Week Banquet. I was one of a few people that had the honor of looking at Jeff's nomination package. It is truly impressive. Sometimes we think of a person in the context that we interact with them. School, Work, or your kids soccer practice. What should be more obvious is that a person volunteering at one of these activities is often the same person volunteering at the others. Jeff is one of those people. I and the SENH board thank him for his service and congratulate him on his well deserved award and accomplishments.

While NHSPE was the sponsoring society for the Young Engineer of the Year award winner, SENH is also happy to call her a member. Veronica Carter, PE won the honor this year. Veronica is a graduate of UNH and is currently a professor at the New Hampshire Technical Institute in Concord. I did not get to review her nomination package, but I am lucky to know her personally. She too is well deserving of this award and we congratulate her.

The SENH board has been very active over the last couple of months. We were invited to a meeting of the Joint Board of Licensure to speak about the upcoming changes to the PE exam. The Joint Board was very receptive to our comments and we are happy to report that by all appearances, they plan on adopting the new 16-

hr exam as the standard exam from licensing structural engineers. As a reminder, this new exam will begin in April 2011.

This March we will be having a dinner meeting at the University of New Hampshire in Durham. The topic will be "Geotechnical Parameters for Site Classifications E & F". What do you do when a geotechnical report comes back with the words "liquefiable soils"? Does it mean battered piles? Does it mean more testing is required? Find out, when Dan Stapleton, PE and Gary McAllister, PE from GZA GeoEnvironmental come to speak to us.

It is still our hope to get this meeting approved by NCSEA for pdh's that will be approved by our more restrictive states (e.g. NY, FL). NCSEA offers a onetime free review of a 1 pdh presentation for its member societies. We intend to take advantage of that offer. This will be a test, of sorts, to see if this makes sense for future meetings. There is a moderate amount of paperwork to be done to accomplish this. The time to do this paperwork comes at the expense of volunteers. (Do you see how I am tying this into my first paragraph?) We could use volunteers on the Professional Development Committee to seek out new ideas and speakers, to organize the meetings, and to submit the necessary paperwork for approval of credits. We heard from our membership that they would appreciate these efforts. We would like to hear from our membership that some are willing to help do the work.

Thank you for your time. I look forward to seeing you at the Engineer's Banquet or at the March dinner meeting.

Tony Coviello, PE, SE
SENH - President

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Special Points of Interest/ Reminders:

- *Congratulations Jeff Tirey, P.E., SECB—NH 2010 Engineer of the year!*
- *Congratulations Veronica Carter, P.E.—NH 2010 Young Engineer of the Year!*
- *The next SENH Meeting is March 9, 2010. See inside for details.*

Jeffrey L. Tirey, P.E., SECB Named 2010 NH Engineer of the Year



New Hampshire's
Engineer of the Year
Jeffrey L. Tirey, P.E., SECB

Jeffrey L. Tirey, P.E., SECB was honored as the 2010 NH Engineer of the Year by the NH Joint Engineering Societies at the Engineers Week Banquet on February 18 recognizing his exemplary talent, effort and involvement in the engineering profession and the community. The Board of Directors of the Structural Engineers of New Hampshire (SENH) was pleased to nominate him for this award.

Jeff received his BSCE from Massachusetts Institute of Technology. He holds professional engineering licenses in New Hampshire, Maine, Vermont, Massachusetts, Connecticut and New Jersey. Jeff is a founding member of SENH (Structural Engineers of New Hampshire), has national certification as a structural engineer by the Structural Engineering Certification Board (SECB) and maintains a council record with the National Council of Engineering Examiners. He is also a damage assessment reservist with the NH Office of Emergency Management. Jeff began his engineering career in 1977, opening his own consulting structural engineering business in Littleton in 1985.

Jeff provides structural engineering services in many categories including new design, renovation, evaluation, forensic and expert witness testimony. His areas of expertise encompass all types of educational, commercial, residential, government and recreational building projects. Some recent and notable design work includes the Montshire Museum of Science Outdoor Science Park, Norwich, VT, Windy Hill School at Colby Sawyer College in New London, NH, Littleton Police Station and Littleton High School Addition in Littleton, NH as well as district courthouses in Merrimack, Coos and Carroll Counties, all located in New Hampshire.

Jeff is one of the co-authors of "Ground Snow Loads for New Hampshire". Working with the U.S. Army Corps of Engineers Cold Regions Laboratory in Hanover, New Hampshire, Jeff gained national prominence and recognition for establishing snow loads for all towns in New Hampshire. He continues to assist other states across the country who wish to start their own snow load mapping projects.

Jeff is an avid hiker and enjoys camping and skiing. He has been involved in MATHCOUNTS where he served as the North Country coordinator, Androscoggin Valley Search and Rescue (AVSAR) serving both on the board of directors and participating in many mountain search and rescue missions, and has worked at the Mt. Washington Observatory where he designed and built exhibits for the Summit Museum. While a member of the Randolph Mountain Club (RMC), he served on the board of directors and, as president, was instrumental in guiding the club through a ten year effort to replace three of its four aging huts. Jeff also served on the Board of Directors of The Children's House, a Montessori pre-school in Littleton, NH. He currently serves on the building renovation committee at the Riverside School (Lyndonville, VT), is a volunteer lacrosse coach and assists with a civil engineering and architecture course at the St. Johnsbury Academy. Jeff has been very active in all aspects of ice hockey, from coaching in the Littleton and Lyndonville (VT) youth hockey programs, to playing in a weekly men's league.

Jeff resides in St. Johnsbury, Vermont with his wife Cynthia and sons, Tucker and Evan.

SENH MARCH MEETING ANNOUNCEMENT

NEXT MEETING: Tuesday, March 9, 2010

PRESENTATION: **Geotechnical Seismic design parameters for site class E and F sites**, Gary McAllister, P.E. – GZA GeoEnvironmental

The presentation will illustrate the geotechnical engineering approach of providing seismic design parameters to the structural engineer; specifically, for sites underlain by low strength soil, which are subject to Site Class E and F designations under IBC 2006. The presentation will include brief discussion on the topics of seismic theory, applicable Codes, Site Class, Liquefaction, Site-Specific Ground Motions, and Design Spectral Response Acceleration Parameters

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). We recommend you park at the Visitor Information Center or C-lot". Both are metered parking lots and both are a 5 minute walk to Kingsbury. As with most college campuses, parking is strictly enforced. However, bus transportation is free and frequent. See <http://www.unh.edu/transportation/visitor/map.pdf> for more information.

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-8:45 pm Presentation

DINNER: Pizza

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

RSVP: by Friday, March 5, 2010.
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 2010 Meeting Minutes

Business Portion of the Meeting

I. BUSINESS PORTION OF MEETING:

1. S. James presented the business portion of the meeting as SENH President Tony Coviello was not able to attend the meeting.
2. The 2010 SENH Budget has been approved by the Board of Directors and a summary will be emailed to members soon.
3. SENH held a raffle of 4 passes to Gunstock Ski Area during the meeting. The passes were provided by Bob Durfee who is a Gunstock Commissioner. All proceeds will be used towards the SENH Scholarship.
4. Ed Bergeron provided a summary of his and Tony Coviello's meeting with the NH Joint Board of Licensure and Certification. The Joint Board will be administering the 16-hr SE exam and Ed noted that the cost may approach \$1,000 for the 2 day exam.
5. Bob Durfee provided an update on the NCSEA Winter Institute that will be held on March 12th and 13 in Coronado, CA.
6. The next SENH meeting will be held on March 9th at UNH.

NHDOT Update, *by Mark Richardson, P.E., NHDOT*

Mr. Mark Richardson, PE, NHDOT Administrator for the Bureau of Bridge Design gave a presentation on current bridge issues and projects in the state.

1. Piscataqua River Crossings. In depth inspections and ratings of the three major bridges is ongoing as well as a connection study for the area. As a result of the inspections the Sarah Long bridge was down posted to 20 tons, repairs were made and an estimated \$65M in additional repairs are needed. The inspection lead to the temporary closure of the Memorial bridge while \$125K in emergency repairs were completed. The NHDOT is awaiting notification on a federal TIGER grant that includes the Memorial bridge repairs as well as work to the port.
2. I-93. \$70M worth of projects have been completed, \$58M are in progress and over \$400M remains.
3. Manchester-Boston Regional Airport Connector. Good progress is being made on the project and it is scheduled to open in 2012.
4. Seacoast projects. The Spaulding Turnpike will have \$70M worth of improvements made. The Newington/Dover project includes a new southbound superstructure that includes options for a steel or concrete superstructure. The bridge is estimated to cost \$58M.
5. ARRA. NH received \$129M in ARRA funds for transportation and spent 50% of that funding within 120 days.
6. I-93 Bridge Impact. An I-93 overpass bridge was struck by a dumpster rolloff truck that had the dump portion up. The dump portion hit the exterior girder, which stopped the truck and caused the truck cab to swing up and hit another

Structural Integrity Inspections of NE Bridges, *by Debra Moolin, P.E., PB World*

Ms Debra Moolin, PE of PB presented a discussion of recent structural integrity inspections of some New England signature bridges.

1. Newport Bridge. An inspection of this unique suspension bridge was completed. The bridge is one of only three bridges with a unique parallel strand cable. The work included nine areas where the cable was unwrapped and wedged for inspection, replacement of four suspender cables and installation of a dehumidification system at the cable anchorages. The cable inspection followed a NCHRP report and found the cables to be in good condition except near the anchorages where some corrosion was occurring.

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Structural Integrity Inspections of NE Bridges, by *Debra Moolin, P.E., PB World*

Continued from page 4

2. Jamestown Bridge. An inspection of this precast segmental bridge was made which included ultrasonic testing of the post-tensioning ducts. The initial testing revealed several locations of duct banks that were not filled. These areas were repaired and eventually all the ducts banks were tested and repaired as needed. A fiber optic camera was also used during the inspection.
3. Cape Cod Canal Bridges. These include the 1930's era Bourne and Sagamore Bridges. The inspection of these bridges was completed using ropes since they were not allowed to close a lane of traffic for the inspection. PB retained a firm specializing in rope use in support of their inspection activities.

2.0 PDH's for the technical presentation was earned by attendees. Respectfully submitted by Sean T. James, P.E., SECB, Secretary, SENH

NHJES Update *Submitted by Sean T. James, P.E., SECB*

A NH Joint Engineering Society meeting was held on January 7, 2010 with S. James representing SENH. A request was made by NHSPE to provide a partial sponsorship to MATHCOUNTS (www.mathcounts.org). This is a national organization that provides club and competition opportunities for middle school students that are interested in mathematics. The program has been active in NH for over 20 years with over 400 students from 60 schools participating last year. The support by NHJES will allow them to continue to provide a quality program to NH students. If you are interested in volunteering to help with this program please contact the NHSPE (www.nhspe.org).

Raffles Raise Money for SENH Scholarships *Submitted by Matthew J. Low, P.E., SECB*

If you were at the January SENH meeting in Concord, you will have noticed that we orchestrated a raffle that night to raise money for the SENH Scholarship program. Bob Durfee, a Gunstock Mountain commissioner, generously donated four (4) prime-time ski passes for the raffle which raised approximately \$110 for the scholarship program. We would be interested in having raffles at future meetings as well, so if you have items of interest that could be donated to SENH for this cause, please let any of the Directors know or email me at mjlow@hoyletanner.com. The students thank you for your support!

2010 Dues Renewal

Dues renewal for 2010 were due January 31, 2010. At the time of the publishing of this newsletter there is still a significant amount of outstanding dues to be renewed. Please take the time to send in your renewal. A renewal form has been included in this newsletter for your convenience. Members who do not renew their dues by March 31st will be dropped from the membership. Don't let this happen to you!

Attendance List

NHDOT Update & Structural Integrity Inspections of NE Bridges

The Grappone Center (2.0 PDH's)

January 12, 2010

Name	Organization	Name	Organization
Dana Michael Adams, P.E.	Opechee Construction Corp.	Sean James, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Chris Baker	Vanasse Hangen Brustlin, Inc.	Steve W. Johnson, P.E.	NHDOT
Shannon Beaumont	CLD, Inc.	Roger Keilig, P.E.	HTE Northeast, Inc.
H. Edmond Bergeron, P.E., SECB	HE Bergeron Engineers	Thomas T. Kendrick, P.E.	McFarland-Johnson, Inc.
Josif Bicja, E.I.T.	Hoyle, Tanner & Assoc., Inc.	Dave Kull	McFarland-Johnson, Inc.
Jason Blais, P.E.	Opechee Construction Corp.	Dennis R. LaBombard, P.E., SECB	LaBombard Engineering, LLC
Steve Boyington	Jacobs Engineering Group	Aaron M. LaChance, P.E.	Stantec Consulting
Jay H. Brown, P.E.	Structural Systems, Inc.	Stephen R. Langevin, P.E.	TEC, Inc.
Tim Bryant	Vanasse Hangen Brustlin, Inc.	Jason Lodge, P.E.	Hoyle, Tanner & Assoc., Inc.
Robert S. Busby, P.E.	Kalwall Corporation	Matthew J. Low, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
Robert R. Bussiere, P.E.		Josh Lund, P.E.	Stantec
John Byatt, P.E.	CLD, Inc.	Donald F. Mayo, P.E.	Donald F. Mayo, P.E.
Normand G. Cote, P.E., SECB	NGC Structural, LLC	Debra Moolin, P.E.	PB Americas
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Mike Mozer	Vanasse Hangen Brustlin, Inc.
Gordon M. Edington	Vanasse Hangen Brustlin, Inc.	Linda McNair-Perry, P.E.	SFC Engineering Partnership, Inc.
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	John T. Poisson, II, E.I.T.	Hoyle, Tanner & Assoc., Inc.
Christopher R. Fournier	H.E. Bergeron Engineering	Mark Richardson, P.E.	NHDOT
Tim Foy		Adam M. Stockin, P.E.	Parsons , Brinckerhoff, Quade & Douglas, Inc.
Greg Goodrich	Vanasse Hangen Brustlin, Inc.	Edward Weingartner, P.E.	Hoyle, Tanner & Assoc., Inc.
Sally Gunn	Vanasse Hangen Brustlin, Inc.	John J. Wilson, P.E.	Jacobs Engineering Group
Steven M. Hodgdon, P.E.	Vanasse Hangen Brustlin, Inc.		

Steel Bridge & Concrete Canoe Competitions.

Annually, SENH tries to donate to the UNH ASCE Steel Bridge and Concrete Canoe competitions. This year has been no different. The concrete canoe competition and steel bridge competition are annual events. Each have regional competitions where teams (schools) compete for the right to go to the national competition. Both the regional and national competitions rotate between hosting schools. This year's National concrete canoe competition will be held at Cal Poly. The National Steel bridge competition will be held at Purdue University. We are pleased to include a recent thank you card that we received from the students.

UNIVERSITY OF NEW HAMPSHIRE

Dear Deb CowN,

Thank you for structural EngneerNH contribution to steel bridge and concrete canoe! UNH ASCE is proud of its competition teams and is working with them as they work to improve and reach their goals. Your contribution is greatly appreciated and will help with their continued success!

Sincerely,
UNH ASCE

Megan Wengrow
chapter President



Kent B Walker
Professional Development
Coordinator

Stevan J Rzepke
Special Events Coordinator

Jason Peddle
TREASURER

Arianna Paquette
Secretary

Jonathan Coult-ye
Vice President

John Reed
ENELiaison

Thank You!

Additional Meetings & Conferences

Working with the Joint Engineering Societies Committee, NHSPE has developed a "NH Engineering Calendar" (www.nhecal.org) where all societies can post events. The intent is to have a single site where upcoming events for all societies are listed. If you would like to post an event, please email the details to info@nhspe.org.



SENH 2010 Dues Renewal Notice



Renewal dues are as follows:

Member: \$ 50.00

Associate Member: \$50.00

Student Member: \$15.00

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

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

BY January 31, 2010

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

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

Please check one:

Member Associate Member Student Member

NAME _____ FIRM _____

ADDRESS _____

PHONE _____ FAX _____ **E-MAIL _____

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

DOES THE INFORMATION PROVIDED REPRESENT A CHANGE IN REGISTRATION DATA FROM THE PREVIOUS YEAR: YES/NO

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

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

Check # _____ Check Amount \$ _____

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

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

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



Please send my newsletter via regular mail.



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

WWW.SENH.ORG



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