I wanted to take this space to recognize two people that tirelessly work for this organization in ways that most of you are not aware. These are the people who you may see on an email, or a report, or even standing up front, but you may not be aware of all that they do for our organization. Obviously, many members contribute to everything that we do, and all of the members are invaluable, however, these two people deserve special attention.

Deb Coon is our Administrative Assistant and has been serving in this role for a number of years. She performs a tremendous amount of work behind the scenes, including putting together this very newsletter, collecting dues/meetings fees, sending out meeting notices, helping out with any task that is requested, and most importantly, keeps our organization running smoothly. She is one of those people that no one ever sees, but she weekly goes above and beyond. The BOD agrees that we would all be sunk without her help. I can almost guarantee that we would not exist without her help. She works as a full-time administrative assistant and performs this part-time job on the side. She is always on top of things and makes sure that we meet all of our deadlines and is the “engine that drives the machine”. Not only is she able to drive the machine, but she does so with enthusiasm and kindness. It must be frustrating to “corral us” from our busy schedules, and she is always insistent yet understanding. So, on behalf of the BOD, we sincerely thank you for all of your effort and dedication.

Bob Durfee has been a dedicated member of SENH for more years than any of us can count. Unlike Deb, Bob is not behind the scenes most of the time. He is a very vocal member of our group, whether he is encouraging students to mingle, donating Gunstock tickets, or updating us on the national NCSEA organization, he is often up in front of the group. Bob is the delegate to NCSEA and is extremely active in a subcommittee and in coordinating with the Northeast members of the group. He always comes back to our BOD meetings to report new ideas and trends of the national group. Bob volunteers in numerous ways including the BOD Nomination Committee, the EYO/YEOY Nomination Committee, and many other capacities. To be honest, I am not even aware of all of the work that he performs for our membership and I have surely left something out, because he seems to be involved with everything that goes on. He serves in so many ways and is always gracious with his time and counsel. The BOD has enjoyed his invitation for our summer meeting to be held on his boat the last few years. He has encouraged us as a BOD with his passion and service. On behalf of the BOD, thank you so much for everything that you do for SENH, you are an invaluable part of the team.

These are two great examples of people who go above and beyond in serving our membership. Again, thank you both for all that you do. I know that there are members that we all know that give much of themselves for SENH, and for Structural Engineering in general. Please consider taking the time to thank them. I think sometimes we take these people for granted because they are just always there, and always serve.
Presidents Letter Continued from Page 1

Thank you to all that currently support and volunteer for SENH! If you are interested in becoming more involved or have any questions or concerns, feel free to contact me at president@senh.org or (603) 647-2012.

Also, a friendly reminder that we will be voting on 2 nominations for the BOD at the May meeting.

NH State Building Code Update Submitted by Linda McNair-Perry, P.E.

Throughout 2015, the NH State Building Code Review Board (BCRB) held numerous public hearings and regular board meetings relative to updating the International Building Code, the International Plumbing Code, the International Mechanical Code, the International Energy Conservation Code, and the International Residential Code with amendments. The board found a sponsor and presented legislation to reflect those updates to RSA 155-A in the form of House Bill 1282.

The bill arrived on the House floor with an Executive Departments and Administration (ED&A) Committee recommendation of Inexpedient to Legionate (ITL). For those of you in the know it is very difficult to get 400+ Representatives to vote contrary to a committee’s recommendation. A roll call was taken. Check the link to see how your Representative voted. Those that voted in the affirmative were voting to kill updating the codes for this legislative cycle. The nays totaled 49. As they say, it went down in flames, with the aid of some heavy lobbying from those opposed to the code updates.

For those that have any interest, below is the nitty gritty of what went down based on the House Record.

Rep. J.R. Hoell wrote the Majority INEXPEDIENT TO LEGISLATE (ITL) position for ED&A Committee. “The bill proposes to adopt the 2015 International Building Code as the minimum standard for all new building construction as well as any commercial or residential renovations. The changes in the code are predominantly changes to building energy efficiency and not about life safety. The energy efficiency portion is extremely extensive and adds additional requirements that may force upgrades to other portions of the structure when completing a renovation. Further evidence that this standard is a significant change is that only 6 states have adopted this 2015 standard either at a state level or at a local level. Currently MA, CT and ME are all at the 2009 level or prior editions of the code and VT has only recently adopted the more restrictive 2012 standards. The NH Homebuilders Association raised 9 issues that needed to be amended out if this standard was adopted. Committee members noted during the executive session that we already allow the local jurisdictions to adopt this policy, if they want to, and that there are no prohibitions on homeowners or businesses adopting the newer standards when renovating or building new buildings. Given the energy costs in the state, if there was a compelling reason to adopt these standards, the prospective owners would be adopting these changes on their own, but that is not happening as the costs for some of these energy “solutions” has a negative return on investment once common interest rates are taken into account.

Rep. Carol Roberts presented the Minority OUGHT TO PASS position for the ED&A Committee. “The International Building Code presently in force in New Hampshire is the 2009 code. It is generally considered among professionals that codes over five years old are dramatically out of date. It is in the best interests of all citizens of New Hampshire when the trades adhere to a newer code. While the latest code has some shortcomings, amendments have been made and may in the future be added to adjust the requirements. Although this bill had the backing of all the aforementioned trades, the majority of the committee found it Inexpedient to Legionate. The minority feels this action sets a bad precedent for allowing special interests to control the outcome of legislation and that cost should not drive changes to the many improvements to the code. Updates to the energy 52.” From the 4 March 2016 HOUSE RECORD “code will not be enforced – intensifying our dependence on fossil fuels;
changes to lifesaving measures such as egress, fire protection, and emergency lighting will not be required and many other updates and additions approved by the trades will not be addressed. These items and other changes are now on the back burner due to the vote of majority.”

Many of the organizations represented on the BCRB are in the inevitable post-mortem phase of this legislative defeat. One issue that should not be a surprise is that legislators felt this code update was rushed through. Last year (or the year before) there was legislation to say no new codes could be considered for adoption unless they were at least three (3) years old. I am paraphrasing, but that was the gist. That particular legislation did not pass, but the sentiment behind that legislation lingers. The BCRB and many others in the built environment (new and existing) have much work to do to help the legislators understand the benefits of keeping the codes (moderately) current, especially when skipping code cycles.

While the ED&A committee process was taking place there were last minute requests for amendments to the 2015 International Residential Code for One- and Two-Family Dwellings (IRC) presented to the BCRB by the NH Home Builders Association (NHHBA). It is presumed that the timing was not accidental. The NHHBA was well represented at the House committee meetings and hearings. We can see the outcome of the ED & A meeting and hearing process with the 10-6 Majority recommendation of ITL. There is still work to be done, before the compromises on the energy code (and a few fire code) issues can be ironed out.

Further, the board has learned that concerns were raised with legislators about the existing building provision in RSA 155-D regarding ENERGY CONSERVATION IN NEW BUILDING CONSTRUCTION. RSA 155-D, which is administered by the state Public Utilities Commission, has not been updated since the BCRB was created and a state building code was legislated into existence in 2002. Conflicts abound between RSA 155-D and RSA 155-A especially with the inclusion of the 2009 International Energy Conservation Code (IECC) and the 2009 International Existing Building Code (IEBC) into the state building code.

In conclusion (kudos if you made it to the end), the BCRB has not given up. They will be working on resolving the issues that arose during this most recent legislative effort. The BCRB plans to do more outreach to legislators and they have created a sub-committee to work with the PUC on language for a comprehensive bill that will address the outdated language in RSA 155-D and the current state building code as well as accommodate new (amended) energy provisions in the 2015 IECC, the 2015 IEBC and the 2015 IRC. Stay tuned.

SENH UNH Scholarship Winners Submitted by Matthew J. Low, P.E.

Structural Engineers of New Hampshire (SENH) is very pleased to announce that one University of New Hampshire (UNH) Civil Engineering student has been selected for the 2016 Structural Engineering Scholarship of $1,000. Students who are eligible are those that are entering their senior year of studies with a focus on structural engineering. This year, Ms. Lindsey Rago is the winner. A scholarship award ceremony at UNH will be held in October 2016 to recognize this fine individual for her achievement.

SENH is proud to support students as they pursue their undergraduate degrees, the first step in becoming tomorrow’s engineers and problem solvers.

Thank you to all members who contribute towards the scholarship during the dues renewal process.

2016 Steel Bridge and Concrete Canoe Competitions

The 2016 New England ASCE Student Conference occurs on April 22-24, 2016. Northeastern University and Wentworth Institute of Technology are co-hosting. Colleges and universities from all over New England and parts of Canada be on the Northeastern campus in Boston to present their steel bridge sand concrete canoes in competitions. Here are links to the schedule and maps/parking info. For those of you that have participated or judged in the past, you might be interested in seeing the rules for the 2016 Student Bridge Competition. The top tier student bridge teams will get to compete in the National Competition that takes place at Brigham Young University in Utah at the end of May.
NEXT MEETING: Tuesday, May 10, 2016

PRESENTATION: **Open Web Steel Joist Composite Floor System**, by **Ric Anderson, P.E.**, Ecospan by Nucor-Vulcraft. Although composite open web steel joist floor systems are very cost effective relative to other floor systems, many engineers have reservations about specifying them. This presentation will discuss the benefits of composite steel joist systems, and in conjunction with how to properly specify these floor systems. Additional topics of discussion will be camber, vibration and other design considerations when specifying an open web composite joist system.

SPEAKER: **Ric Anderson P.E.**, is the product engineer for the Ecospan® Composite Floor System supplied by Nucor-Vulcraft. Ric received his Bachelor of Science in Civil Engineering from Mississippi State University and a Master of Science from Virginia Tech. Mr. Anderson has research and design experience with multiple floor systems encompassing single family residential to high rise construction. He has been involved with the design of many types of structures that incorporated steel composite joists as well as engineered lumber. He is currently licensed in 16 states.

PLACE: The Derryfield Restaurant
625 Mammoth Road
Manchester, NH 03101

AGENDA: 5:30 pm-6:30 pm Registration/Social Hour
6:30 pm-7:30 pm Dinner
7:30 pm-7:45 pm Business Meeting
7:45 pm-8:45 pm Presentation

DINNER: Buffet with choice of Grilled Salmon or Chicken Marsala.

COST: SENH Member: $50.00 Non-Member: $55.00 Full Time Student: $15.00 - ‘no-shows’ will be billed at full amount.

RSVP: by Thursday, May 5, 2016. 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
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. Some members will be **golfing** before the meeting. To join in, please email Rebekah Gaudreau at gaudreaujr@pbworld.com no later than May 5th to be included on emails regarding any golf plans.
March Attendance List & Meeting Minutes
SE Licensure by Tom Grogan, P.E., A Grand View, and by the way... by Jeffrey L. Tirey, P.E., SECB
University of New Hampshire, Durham, NH (2.0 PDH’s)
March 22, 2016

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<td>Christopher R. Fournier, P.E.</td>
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<td>Robert Henry</td>
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<td>Jeffery R. Karam, P.E., LEED</td>
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<td>Tom Kilrain, P.E.</td>
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<td>Samuel L. White, McFarland Johnson, Inc.</td>
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Business Portion of the Meeting

◊ SENH President Adam Stockin opened the SENH business portion of the meeting.

◊ Treasurer Bob Champagne gave a brief budget update, reported that about 75% of the normal dues are in and reminded those who still need to renew.

◊ Josif Bicja gave an update on upcoming events:
  ◆ May 12: Derryfield golf event with a Vulcraft technical topic
  ◆ April 6: Manchester Simpson Strong-tie seminar
  ◆ SEAM has an iron and stone discussion in May
  ◆ September meeting is combined with ASCE, no topic yet
  ◆ December 6-8 NHDOT In-Service bridge inspection refresher course
  ◆ March 2017 NHDOT Fracture critical inspection training

◊ Chris Fournier gave an update on the Young Member Group
  ◆ Reminded all of the purpose of the group, which is to engage younger structural engineers and assist with early career transition and encourage involvement with SENH
  ◆ The YMG plans to participate in the NCSEA YMG national trivia night in June
  ◆ We are planning a future Fisher Cats game

◊ Adam reminded all that Board of Director voting will be in May for the two opening positions and that the nomination committee has nominated Adam and Bob C for re-election.

◊ Josif introduced the technical presentations
Presentations

UNH Steel Bridge Team

The team will be participating in the Northeast regional competition hosted by Northeastern University and hopes to qualify for the national completion at BYU. The team's design and approach aim to minimize the construction cost and the structure cost. The team is currently in the midst of fabrication. Their initial design was scrapped due to time constraints on fabrication and a simpler design was pursued. The team is again utilizing twist lock connections. They hope to test part of the bridge soon.

UNH Concrete Canoe Team

This year's team consists entirely of sophomores and decided to create a mold from an available racing canoe. The first attempt was to make a foam mold, but attempts were unsuccessful. A concrete mold was then utilized with a central split point. The team is using ductile concrete with metallic fibers and hopes to engage a local shotcrete contractor to place the 3/8 inch-thick structure.

SE Licensure by Tom Grogan, PE

Tom first reviewed the history of engineering licensure, beginning with the Code of Hammurabi in 1762. Wyoming was the first state to license engineers in 1907 and Illinois was the first to license structural engineers in 1915 to keep out fool's and rascals. Tom explained that PE Boards cannot restrict PE's from performing structural engineering and that such a restriction would need to come from the legislature. Tom reviewed that there are currently four types of states that recognize SE's: full practice restriction, partial practice restriction, title act, and roster designation. The goal of specialized SE licensure is to protect the public. Tom reviewed several failures demonstrating the severity of what can happen when structural engineering goes wrong. Tom outlined the benefits of separate SE licensure: the unaware public is better protected, SE's are better identified, increased mobility of licensure, reduced discipline cases, and potential for reduced insurance premiums. Regarding NH, Tom reviewed that 20 years ago 65% of SENH members supported SE licensure, the NH PE board opposed it. In 2015 the results were unfavorable. Tom urged that should SE licensure be pursued in NH, that a licensure committee should be formed to gain support from membership first, and then find out who will support or oppose the action. See the detailed outline of this important presentation below.

A Grand View, and by the way by Jeffrey L. Tirey, PE, SECB

Jeff reviewed a project he encountered when he was approached by a new owner of a kit log home in Franconia Notch. The new owner simply wanted to enhance their view of the mountains by increasing the windows within the gable wall of their home. Upon closer inspection Jeff found many deficiencies with the structure that extended beyond the original scope including a missing column supporting the ridge beam and insufficient bracing of the exterior log walls. Jeff reviewed his approach to the problems which included the installation of a large steel moment frame structure at the gable end and a wood framed truss encompassed in the roof zone to take place of the missing column.
History of Licensure:

- 1907– Wyoming first state to license engineers
- 1915 – Illinois established structural engineering practice act/licensure
- Currently 55 jurisdictions license engineers
- Currently 17 jurisdictions have some form of structural engineering licensing for structural engineers

Defining Structural Licensing that Currently Exist:

- Requirements beyond general engineering
- Special requirements for licensing
- Rules and regulations
- Legislative statutes concerning practice
- Restrictions on practice

Types of Structural Licensure that Currently Exist:

- Full Practice Restriction
- Partial Practice Restriction
- Title Designation
- Roster Designation

Why Structural Licensure?

- To Protect the Health Safety and Welfare of the Public
- Protect From What?
  - Unqualified Professionals
  - Inexperienced Professionals
  - Professionals not familiar with current/new codes
  - Costly Failures

SENH Licensure Efforts to Date:

- 1997 SENH began to explore “specialty” licensure
  - Formed committee to explore
  - Member survey at that time indicated 65% were in favor of Structural Engineering Licensure
  - However the NH Licensing Board was opposed.
- 2015 SENH survey
  - Conducted a survey of its members.
  - Survey indicated 42% support SENH pursuing Structural Engineering Licensure

“What’s Next” for SENH?

- Determine if we will pursue SE Licensure
- Form a Licensure committee
- Spend time with the membership determining if SENH has enough support
- Put together white paper and simple one page document that explains the intent
- Find out who will support/oppose the legislation
- Make a GO/NO GO Decision
- Ask NCSEA for assistance
Transitioning from Student to the Work Force

Submitted by Gregory Clauson, E.I.T.

For many college seniors, making the transition from full-time student to a full-time career can be incredibly daunting. There will be many new responsibilities and challenges regardless of the career you choose. Here are a few tips based on my experiences that will hopefully make those first few weeks and months go a little smoother.

One very important lesson I learned very quickly is that learning does not end after college. In fact, the learning has really just begun. Learning how to do your job, especially in engineering, will take time (and lots of it) so be patient and ask questions about anything you don’t understand. This is your chance to learn all the things your more experienced coworkers may take for granted.

Next, find a professional mentor. A mentor can help you perform better at your job and help explain the intricacies and tricks to succeeding in your field. Not everyone is willing or able to be a mentor; so choose carefully. Someone you feel you can learn from. It’s not unusual to have more than one mentor. Mentoring relationships are based on a few key components: a common understanding of each other’s needs and expectations; mutual trust; honesty; and respect for each other’s time.

Finally, learn your company culture. This includes some obvious items, like dressing appropriately, but also understanding what is and is not acceptable behavior. Are work hours strictly enforced or do you have some leeway? Understanding the little details of everyday working like will help you fit in, feel more comfortable, and get along better with your coworkers.

Your career starts now. This time can be scary, but it’s also rewarding. From now on, you make your own choices and with a little planning and foresight your lifelong dreams and goals.
PRESS RELEASE

For immediate release.

Contact: Carolyn Isaak, Executive Director, AIANH — 603-357-2863, office@aianh.org

**NH Architects & Engineers Set to Assist During Declared Disasters**

*(April 14, 2016)* — The New Hampshire Architects and Engineers Emergency Response Task Force (NH AEER-TF) is a group of architects, engineers, and other building industry professionals who are trained in a Safety Assessment Program (based on California OES-SAP) to serve as second responders in an emergency situation under the management of professional emergency responders. In times of natural disasters or other catastrophic events, architectural and engineering expertise and skills are needed to provide structural, mechanical, electrical, or other architectural or engineering evaluations to determine the integrity of structures, buildings, piping, or other systems. After a declared disaster, the group will assist local emergency management officials and the State of New Hampshire and help business owners get back on their feet sooner and citizens to return to their homes sooner, expediting the recovery process and saving lives and money.

The effort is led by the New Hampshire Chapter of the American Institute of Architects and representatives from the Structural Engineers of New Hampshire (SENH), Associated Consulting Engineers (ACE), and the NH Society of Professional Engineers (NHSPE). NH AEER-TF members are architects, engineers, and Certified Building Inspectors. Qualified contractors as well as architects and engineers in training can be part of the team to assist licensed professionals.

Task Force members are required to pass two emergency response training programs, one specific to building safety assessment and one pertaining to incident control. The NH AEER-TF has provided two training opportunities since 2014, is arranging more sessions, and encourages its members to avail themselves of training offered by FEMA and the State.

The volunteer program was initiated three years ago. The organizational team spent the first two years concentrating on training and legislation to provide protection from civil litigation for volunteer services rendered in an emergency. Liability protection is essential for licensed professionals who are more vulnerable to suits in their area of expertise than regular citizens. Legislation to add architects and engineers to the NH Good Samaritan law passed in July 2015 and took effect immediately.

A Memorandum of Understanding with NH Homeland Security and Emergency Management was signed, which outlines when and how the NH AEER-TF would work for NH Homeland Security and Emergency Management.
NH AEER-TF bylaws were adopted April 6, 2016. Officers are Paul Hemmerich AIA, president; Bob Champagne, PE, vice-president: Jonathan Hallé AIA, secretary; and Linda McNair Perry PE, treasurer. A subcommittee is working with NH Homeland Security Emergency Management and NH DOT to establish activation procedures, which are nearly complete.

NH AEER-TF will give a presentation at the June 9 NH Emergency Preparedness Conference at the Radisson Hotel in Manchester, NH. This event brings together emergency responders from across the state to explore a wide spectrum of emergency management topics. The NH AEER-TF presentation will explain the team’s availability to provide assistance in an emergency and how we can help local governments perform facility & building safety evaluations as quickly (and safely) as possible allowing communities’ citizens and businesses to return to normalcy.

A meeting of the full NH AEER TF will be held on June 16 at NH Homeland Security/Emergency Management in Concord, and the group invites all individuals interested in offering their volunteer service. The event will include a tour of the operations centers, remarks by HSEM Director Perry Plummer and NH AEER TF President Paul Hemmerich AIA, and a review on the progress of the Activation procedures and Safety manual by NHDOT Assistant Manager and EMS Coordinator Mark Kirouac. For more information on the event, contact AIA New Hampshire at office@aianh.org, 603-357-2863.
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