President’s Letter

There has been a flurry of changes within SENH’s leadership. I’m excited to have the opportunity to continue my role on the Board of Directors and now step in as President. I think Adam Stockin served SENH well during his tenure as President, and he will now assume the role of Vice President for the next year.

I also want to welcome our two new Board members Tom Lamb and Josif Bieja who will take on the roles of Secretary and Treasurer and thank outgoing Board members Tom French and Paul Scacchi for their time and efforts. Bob Champagne endured through his role as Treasurer and will now pass that torch via his new role as Director-at-Large.

Additionally, we all welcome our new Administrative Assistant to the mix, Cassi Beroney. She has been working with Deb Coon to transition into the position. Again, as Adam has in the past, I want to thank Deb on SENH’s behalf for her many years of service to keep SENH running smoothly as we continue forward with Cassi.

Under Adam’s tenure as President we saw the establishment of our Younger Members Group as well as the creation of the Excellence in Structural Engineering Awards Program, both of which I consider to be successes. Thank you to all those involved and congratulations, again, to Hoyle Tanner, WSP, and Summit for being selected for awards this year.

As we move forward, the Board has decided to step back and take a good look at creating a Strategic Plan, of which, hasn’t existed since the formation of SENH back in the mid-90’s. As part of this, we will be aiming to: increase membership and participation, take advantage of the benefits provided by our national organization NCSEA, reinvigorate our committees, address the challenge of serving both bridge and building engineers from firms of all sizes, and improve the service to the membership.

However, to follow through with all of these tasks, the Board must be supported by volunteers on our committees. Specifically, Josif has chaired the Professional Development Committee for some time and since he is now on the Board, we are looking for someone to step into the role of chair and for others to provide a helping hand. This is a prime opportunity to have significant pull in the meeting topics and technical trainings that SENH provides.

If you’ve served SENH in the past, thank you, and I appreciate your consideration to jump back in. If you have yet to serve SENH, now is a good time to start, especially for younger members, and develop a new set of skills while giving back to our industry.

Thank you for your continued support, I’m looking forward to seeing you all at our September meeting!

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Special Points of Interest/
Reminders:

- The next meeting is September 27th with an opportunity for a tour of the Sarah Mildred Long Bridge. See inside for details.
- Check out inside to see who won SENH Excellence in Structural Engineering Awards.
SENH COMMITTEE UPDATES

Younger Members Group

UNH Outreach

Last spring, the YMG participated in a resume review boot camp with civil engineering students at UNH. In light of the positive feedback and excellent student turnout, the YMG will organize an event in the fall with the UNH students to continue the momentum! Our goal is to provide the students with an insight into the practical applications of engineering by taking them on a tour of an active construction site. The site will be selected later this fall once the semester is underway, and will be a great opportunity to network with the students.

SENH vs. ASCE Fall Kickball

The Younger Members Group is currently in communication with our counterparts in ASCE-NH to schedule the 3rd annual SENG vs ASCE kickball game! Exact date and location to be determined, but we expect to have the game around mid-September. Keep your eye out for updates!

Review Course - Structural Engineering Exam:

Thanks to a grant awarded by NCSEA, the YMG was able to sponsor James Stein from Engineering Ventures in taking a SE Exam review course. The online course included live and recorded review sessions to help prepare engineers for the vertical and lateral forces portion of the exam. It is our hope that programs like these will encourage other structural engineers to challenge themselves and pursue taking the SE Exam in the future. Good luck James!
Habitat for Humanity:

Last spring the YMG volunteered with the Greater Manchester Habitat for Humanity at a project home on Lowell Street. The house was originally a duplex, and is currently being completely rebuilt into a 5 bedroom home for a family in need. The Habitat for Humanity team had already gutted the old house down to just exterior walls and a foundation, and had installed new framing and floors throughout the house. Talk about an overhaul! On our volunteer day, the YMG helped to build new decks at the front and back of the house for egress.

We found the Habitat for Humanity team was exceptionally helpful, light hearted, and happy to instruct anyone who may not have had building experience in the past.
Excellence in Structural Engineering Awards Nomination
Congratulations to our Winners!

Building Structures Category
Project Name: RiverWalk Resort at Loon Mountain Phase I
Project Location: Lincoln, New Hampshire

Bridge and Transportation Structures
Project Name: Replacement of Bridge 10 over New Haven River
Project Location: New Haven, VT
Structural Design Firm: WSP|Parsons Brinckerhoff, Manchester, NH

Special Structures
Project Name: Northeastern University—Interdisciplinary Science & Engineering Complex—Spiral Stair
Project Location: Boston, MA
Structural Design Firm: Summit Engineering
REFERENCE CORNER

Please contact the SENH administrator if you have references available, or if you have a need for a reference to be placed in this section. For obtaining references, please contact the individuals directly. This section is only intended to be a forum to serve the membership, SENH is not responsible for the references

Available

I have a number of vintage/antique civil and structural engineering books. Looking to sell those published from 1852 to 1949. Will give away books published after 1950. There are textbooks, manuals, and references. All disciplines of civil engineering books are included-- general civil, highway, drainage, dams, soils, foundations, hydraulics old AASHTO codes for both highway and bridges, and more. For more info e-mail dntewksbury@myfairpoint.net.

Needed

This location can be used for members that are going to take the PE and would like to ask for a reference. If you are looking for a particular reference please contact Cassi Beroney at cberoney@tfmoran.com to have your request published here.
SENH/ASCE JOINT SEPTEMBER MEETING ANNOUNCEMENT

PRESENTATION: Design and Construction of Sarah Mildred Long Bridge Wednesday, September 27, 2017

The new Sarah Mildred Long Bridge replaces the existing structure that was completed in 1940. The original bridge for many years was known as the Maine-New Hampshire Bridge. In 1987 the bridge was renamed to honor Sarah Mildred Long, an employee of the Maine-New Hampshire Interstate Bridge Authority for 50 years. The honor was retained for the new structure.

The new bridge consists of 200’ tall precast concrete towers that will support a 300’ long steel box girder lift span. With a large 56’ vertical clearance in its mid-level resting position there will be 68% fewer bridge lifts. Its lower position will allow the passage of railroad traffic, while its upper position will allow the passage of tall ships. The approach structures are precast segmental concrete box girders built in balanced cantilever. The roadway spans are 320’ long, while the railroad spans are 160’ long.

The presentation will provide an overview of design and construction of the bridge. Particular focus will cover the unique engineering aspects of the project including main bridge foundations, precast concrete towers, lift mechanics, and the precast concrete approach superstructures.

SPEAKERS:

Chris Burgess, P.E., S.E., P.Eng. is a Principal Bridge Engineer with Figg Bridge Engineers (FIGG) for over 26 years. Chris is the Lead Design Engineer of the approach structures and is providing technical support and construction quality review for this fast track, high profile concrete segmental bridge. Chris received both his Bachelor and Masters of Sciences Degrees in Structural Engineering from the University of Colorado. He is a registered Professional Engineer in 24 states, a registered Structural Engineer in 6 states, and a registered Canadian Professional Engineer in British Columbia.

Peter Roody, P.E. has been with Hardesty & Hanover since 1982. As Chief Engineer of Bridges and Movable Structures, he is responsible for project management, structural designs, investigations, and construction support services for major engineering projects. A multi-national project manager and lead engineer, Mr. Roody’s experience includes fixed and movable bridge projects and special structures including travelers, cranes, movable roofs and various heavy movable structures. For 35 years at H&H, Peter has lead multi-disciplined projects that involved structural, mechanical, electrical, traffic, environmental and construction disciplines.

PLACE: Sheraton Portsmouth Harborside Hotel, 250 Market St. Portsmouth, NH

AGENDA: 5:30 pm – 6:30 pm Registration/Social Hour/Cash Bar
6:30 pm – 7:15 pm Dinner
7:15 pm – 7:30 pm Business Meeting
7:30 pm – 8:30 pm Presentation

DINNER: Buffet with choice of Herb Roasted Sliced Sirloin with cabernet mushroom demi-glace, Seared Fresh North Atlantic Salmon with lemon herb vinaigrette.

COST: ASCE/SENH Member/Non-Member: $65.00 Government Employee: $35.00 Full Time Student: $20.00 ‘no-shows’ will be billed at full amount.

RSVP: By Friday, September 22, 2017. There will be a $10.00 late fee for anyone wishing to RSVP past this date. Pay on line using PayPal at http://www.senh.org/meeting-calendar
or send check payable to “Structural Engineers of New Hampshire” with list of attendees to:

TFMoran, Inc.
Attn. Cassi Beroney
48 Constitution Drive
Bedford, NH 0310
cheroney@tfmoran.com

PARKING: See the enclosed parking map from the City of Portsmouth for available parking lots near the hotel. Please note that Sheraton Harborside Outdoor Lot fee has recently increased to $3/hour. There are many other available parking lots near the hotel.

NOTE: 2.0 PDHs have been assigned for attendance. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the meeting.

A tour of the Sarah Mildred Long Bridge will be held starting at 4 pm. If you are interested in attending please email Josif Bicja at jbicja@hoyletanner.com with list of attendees. Space is limited to 30 people and it will be on first come, first served basis. Attendees are responsible for wearing proper footwear (steel toes (if possible), hiking boots, or non-steel toe boots), safety vests, safety glasses and hard hats.
May Attendance List & Meeting Minutes
Insulated Concrete Forms & Ecospan Composite Floor Systems
Derryfield Restaurant, Manchester, NH (2.0 PDH’s)
May 17, 2017

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<td>Azodi, P.E., SECB</td>
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<td>Daniel</td>
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<td>Paul</td>
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<td>Paul M.</td>
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<td>Bellisle, E.I.T.</td>
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<td>Jonathan</td>
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<td>Gomez, P.E.</td>
<td>Joel</td>
<td>Vendi, Hoyle, Tanner &amp; Assoc., Inc.</td>
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<td>Scott</td>
<td>Hartford, P.E.</td>
<td>Ross</td>
<td>Wood, P.E.</td>
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Business Portion of the Meeting

- SENH President Adam Stockin opened the business portion of the meeting
- SENH Treasurer Bob Champagne provided a budget update.
- Ross Wood gave an update on the Younger Members Group
  - The YMG participated in the NCSEA YMG trivia night last Thursday.
  - They are planning a Habitat for Humanity volunteer day later this summer in Manchester.
  - They are looking for engineers who are taking the SE exam to participate in the SE Review Course in the fall, which will be covered by a grant received from NCSEA.
- Josif Bicja announced that the Professional Development Committee is looking for new members to assist with developing topics for future meetings and trainings.
- Adam began the election process for the open Board positions. Chris Fournier, Tom Lamb, and Josif Bicja were nominated for the three spots and were unanimously accepted by the membership in attendance.
- Adam introduced Bob Durfee to announce the winners of the SENH Structural Engineering Excellence Awards. See the summary included in the newsletter for the results.
- Josif introduced the presentations.

Presentations

Ecospan Composite Floor Systems – Nucor Vulcraft

Ecospan was introduced as a complete floor system joists, decking, and shear connectors which can provide a floor to span ratio of L/30 with a 3 inch concrete slab. The joists are typically spaced 4 feet on center and are cambered such that drywall could be directly attached. The system is provided with a proprietary shear connector installation tool. The system was touted to be made with 80% recycled materials and therefore can aid in LEED certification. Significant fire and acoustic benefits can be achieved with proper detailing. Vulcraft offers engineering support from conceptual cost estimating to final detailing to ensure their system is properly specified.
Logix Insulated Concrete Forms

The Logix line of ICFs were introduced as a stay in place concrete form with the added benefit of EPS insulation on both sides. The forms can accommodate 4 to 12 thick walls and have plastic webs spaced 8 inches on center within the form. The webs keep the sides of the forms together and hold rebar in position. Additionally the edges of the webs offer locations for secure attachment of items to the walls. Logix claimed some proprietary benefits over similar products such as increased concrete flowability, multiple stocked transition, angled, and corner blocks, as well as additional markings to ease installation and field modification. Prescriptive load and applicability tables are provided via their website.
MEET SENH’S NEW ADMINISTRATIVE ASSISTANT

Hello Members of SENH! My name is Cassi Beroney and I will be taking over for Deb Coon as the Administrative Assistant for all of you.

I have worked for TFMoran in Bedford for the past 5 years. For most of that time I served as the receptionist and administrative assistant for all departments. In June of this year, I transferred to the Accounting Department at TFM. My duties still include assisting other departments when and where I can.

My husband, Mark, and I live in New Boston where we have raised our 4 kids—David, Jr. (DJ), Allyson, Kyle and Sarrah. I earned my Associates Degree in Accounting in 2015 from Mount Washington College (former Hesser College). Originally from Anchorage, Alaska, I have called New Hampshire my home for the past 25 years.

I have heard how well Deb has served SENH, and learned first hand all the duties she has taken on. I am hoping to make the transition as seamless as possible. I am looking forward to working with all of you and helping out in anyway that I can!

DEAR DEB,

Thank you for the many years of service to the SENH membership. All your work, collaboration, and coordination has been greatly appreciated. We wish you well on all your future endeavors!!

Thank you for everything.
Our Sponsors

Employment Opportunities

SENIOR BRIDGE ENGINEER/PROJECT MANAGER (Concord, NH)

Quantum Construction Consultants, LLC (QCC) is seeking a highly motivated, Senior Bridge Engineer/Project Manager to join our progressive team in Concord, NH.

Responsibilities will include project management, structural design calculations, bridge design reports, plans and specifications, and assist project team as required for quality assurance. Requirements include NH Professional Engineer License and 15+ years’ experience in bridge design.

Please see our full classified advertisement at www.quantum-cc.com in the company section or forward qualifications to hnadeau@quantum-cc.com.