



Granite Columns



President's Letter



I'm writing this President's letter on my way to my first NCSEA Summit, held this year in Chicago. SENH has good representation at our parent organization's annual event, with Bob Durfee (SENH Delegate), Jeff Karam (SENH Alternate Delegate) and Alex Azodi (SENH former Alternate Delegate) also attending. There may be others, if so, I'll see you there!

As a small state, we are fortunate to have these three individuals volunteering on a few NCSEA's committees to lend their expertise and voice NH specific ideas/concerns. While they've been coming for years, I'm attending because of my involvement, on SENH's behalf, with sister organization SEI. SELC (Structural

Engineering Licensure Coalition) has formed a Licensing Vision Task Committee with representatives from each of the national organizations who represent structural engineers, NCSEA, SEI, CASE (Council of American Structural Engineers), and SECB (Structural Engineering Certification Board). As Chair of SEI's Professional Activities Committee, I'll bring that perspective, as well as NH' perspective, of the future of structural engineering licensure.

I'm excited to be a part of this impactful group. If you have any particular thoughts about these topics, or would like to chat with me about it, feel free to reach out. As always, our delegates will prepare a report following the Summit to communicate their experience to SENH members. I hope in the future, more SENH members can attend and perhaps participate as well. These national events provide a different avenue to continue your engineering education, meet and trade experiences with SEs all over the country, meet vendors focused on our industry, and get out of the office. I recommend you do what you can to attend at least once.

On another note, the immediate feedback received about SENH's free webinar offering have been positive. TFMoran was gracious enough to host the webinar, which we maxed out! We'll be sure to take advantage of this NCSEA benefit and pass it along to our members again next year.

I look forward to seeing you in November at our next meeting!

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Special Points of Interest/ Reminders:

- *Mark you calendars! The next meeting is November 15th— See inside for details.*
- *Excellence in Structural Engineering Awards are Just around the corner! Check out Inside for more information!*
- *Know someone looking for a change of scenery? See Employment Opportunities Inside!*

SENH Committee Updates

Excellence in Structural Engineering Awards Committee

submitted by Robert Durfee, P.E., SECB

This committee has continued to develop and revised/update the protocol and procedures for the third (2019) annual SENH **Excellence in Structural Engineering Awards Program**. This program identifies and recognizes outstanding structural engineering projects specifically designed by our Members and/or constructed in our State.

The Committee has issued the **Call for Entries**, which is included in this newsletter. Deadline for project submissions is March 1, 2019. Award winners will be announced during the Awards Ceremony to be held during the May 2019 meeting.

Detailed information on the Awards Program, entry requirements, etc. is posted on the SENH website. Go to Members/Excellence Structural Eng.

Young Members Group

submitted by Sean Brown, E.I.T.

Younger Member Group ~ Fall Kickball / Trivia Event:

This year, in light of less than favorable weather on game day, our annual kickball game against ASCE's YMG was exchanged for a boards and brews night at the Anheuser-Busch Budweiser Brewery in Merrimack. The evening's featured board game was Codenames, and pitted the SENH YMG team against their ASCE rivals.

Unfortunately ASCE was able to come away with a win, and will keep the kickball trophy until a makeup game can be scheduled sometime in the spring. Our thanks to the YMG who were able to join us, and to Nevin for bringing all the board games. If members



UNH Resume Review Day

submitted by Timothy Polson, P.E.



Lily Beyer and Tim Polson represented SENH at UNH's Resume Review Day held on September 18th. Lily and Tim met with approximately 25-30 students over the course of the four hour event, freshmen through graduate students - with a few non-engineering students mixed in. Students received feedback on resume content and formatting and were able to ask questions about cover letters and how to prepare for an interview.

SENH November Meeting Announcement

NEXT MEETING: Thursday, November 15, 2018

PRESENTATION: **Unfortunate Confluence of Design and Construction Deficiencies**

Concrete structures rarely are crack free. Even properly designed and constructed concrete structures can develop cracks due to tensile stresses from restraint of volume changes and response to superimposed loads. Cracks in newly constructed concrete structures are typically the subject of some level of scrutiny as to their cause and their structural and durability implications. When cracking is not widespread or severe, the evaluation is usually a simple matter; however, when cracking is systemic the evaluation is often not trivial. This presentation will explore the investigation and remedial strengthening of a podium-slab structure that experienced widespread cracking as the result of an unfortunate confluence of design and construction deficiencies.

SPEAKER: **Charles J. Russo**

As Chief Executive Officer, Charlie provides strategic leadership and overall management for Simpson Gumpertz & Heger. He previously held several senior leadership positions at the firm, including Office Head and Division Head of Structural Engineering for the Washington, DC office. Since he joined SGH in 1995, Charlie's engineering practice has involved diverse applications of structural engineering, including design of new construction, design of repairs and modifications to existing buildings, investigations of performance problems and structural failures, and assistance in resolving construction-related disputes. Charlie is a licensed PE in 18 states. He obtained his Bachelor of Science in Civil Engineering from University of New Hampshire and his Master of Science in Structural Engineering from Tufts University.

PLACE: Grill 28 at Pease Golf Course
200 Grafton Road
Portsmouth, NH
(603) 766-6492

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

DINNER: Buffet with choice of Chicken Saltimbocca and House Marinated Steak Tips, served with Yukon gold mashed potatoes, fresh seasonal vegetables, a garden salad, and freshly baked dinner rolls. Dessert choices are lemon ricotta cake with raspberry coulis and assorted cannoli.

Please include any food allergies or dietary restrictions to be accommodated.

COST: Member: \$55.00 - Non-Member: \$60.00 - Student: \$15.00

"No-shows" will be billed at full amount.

RSVP: By Thursday, November 8, 2018. There will be a \$5.00 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 03110
cberoney@tfmoran.com

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.

Excellence in Structural Engineering Call for Entries!

Structural Engineers of New Hampshire (SENH) announces the Call for Entries for the 2019 SENH Excellence in Structural Engineering Awards Program. The purpose of the program is to recognize creative achievement and innovation in structural engineering by SENH Members.

ELIGIBILITY

Entry must be submitted by a licensed Professional Engineer (P.E.) and Member of SENH whose practice or activity is primarily in the field of structural engineering. Projects must have majority of the structural design performed by SENH Members (50%). Project entry must have been completed, constructed and achieved substantial completion after December 31, 2016.

The submittals will be judged based on the quality of the structural “design” portion of the project. Within the context of this awards program, “design” refers to the overall concept of any structure or structural system within a project. New projects, renovation and rehabilitation projects are eligible. Projects may be located anywhere in the world, with judging preference to projects constructed in New Hampshire.

CATEGORIES OF AWARDS

Awards will be presented in three project categories:

Buildings: Commercial, industrial, institutional, public, or residential building.

Bridge and Transportation Structures: Vehicle, Railroad, or Pedestrian Bridge. Other transportation Structures.

Special Structures: Towers, dams, parking garages, marine structures, signs, specialty structures, unique structures.

A Small firm Project Award may also be presented for an eligible project at the discretion of the Jury.

One entry in each category will be chosen to receive the SENH Excellence in Structural Engineering Award. Non-winning projects from last year’s program may be re-submitted (one time resubmittal only), if all eligibility requirements are met.

JURY OF AWARDS

The selection of award recipients will be made by a distinguished Jury of Awards. There will be a minimum of three jurors. All jurors shall be structural engineers licensed as P.E.’s and Members of SENH. Jurors will have no connection or conflict of interest to projects submitted.

SUBMISSION OF ENTRIES

Visit the SENH website (<https://www.senh.org/excellence-awards>) for program information, entry form, entry requirements, project eligibility requirements, and other criteria.

DEADLINE FOR ENTRIES

All entries must be either emailed (limit file size to 20 MB), or mailed to the SENH office by 6:00 p.m. EST on Friday, March 1, 2019 to:

Email: admin@senh.org

Mail: SENH

PO Box 226

Manchester, NH 03105-0226

PRESENTATION OF AWARDS

The awards winners will be announced, and the awards will be presented at a ceremony during the SENH May, 2019 meeting. A Design Firm representative must be present at the ceremony in order to win and accept the award, be featured in the next issue of the SENH newsletter and be posted on the website.

September Attendance List & Meeting Minutes

(2.0 PDH's)

Murphy's Taproom and Carriage House, Bedford, NH September 12, 2018

Name (listed in alphabetical order by LAST Name)

Mike Stanley*	Normand Cote	James C. Hall	Joseph Ripley
Annabelle Allen	Lou Cote, III	Kayla Hampe	Emily Schneider
Matthew Allen	Sarah Dinwoodie	Neil Helberg	Jillian Semprini
Bill Ashford	William Doucet	John Ingwersen	Liviu Sfintescu
Timothy Audet	Richard Driscoll	Logan Johnson	Sage Sluter
Cameron Bellisle	Tim Dunn	Jeffrey Karam	Mike Stanley
Josif Biczja	Robert Durfee	Tom Lamb	Roger Thibodeau
Michael Bogue	Fred Emanuel	Lisa Martin	Charles Tinkham
Jim Bouchard	Jaime French	Linda McNair-Perry	Robert Vida
Scott Bourcier	JoAnn Fryer	Ken Milender	Katelyn Welch
Robert Busby	David Gates	William Monette	Leland Williams
John Byatt	Anna Giraldi	Benjamin Meyers	Rick Wolf
Eric Caron	Nevin Gomez	Jonathan Nadeau	Steve Wolf
Ethan Carrier	Nils Gonzalez	Timothy Polson	Ross Wood
Devon Christen	Andrew Griffin	Anthony Puntin	Zachary Zavalinos

***Event Speaker**

Business Portion of the Meeting

Vice President Timothy Polson made a few announcements

- SENH will host a Lunch and learn webinar on October 24 in the Manchester area
 - The Next SENH meeting topic will be presented by Simpson Gumpertz and Hagar on forensic engineering
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Presentations

Mike Stanley Founder and CEO Transit X

Transit X transportation system consists of an elevated light rail transit system constructed of fiber reinforced polymer components (FRP). It consists of an elevated double light rail supported on FRP columns. Battery/solar powered FRP pods travel along the rails at high speeds. Pods are lowered to the ground level for entry and exit. The POD system will be fully automated with users scheduling their use with a smart phone-based application. Over 30 pod types have been conceptualized including medic, sleeper, water, delivery and freight types.

Transit X sees podway transportation as the next generation of transportation. Benefits of the system include more green space through elimination of roadways, utility support, water transportation and freight transportation. There are pilot projects in the early stages in about 5 locations worldwide. The construction and operation are intended to be privately funded and financially sustainable. The cost to use the pod system will be similar to public transportation.

Employment Opportunities

Civil Engineer Harriman

Harriman's growing multi-disciplinary practice is seeking a **Civil Engineer** to join our team. With various locations throughout New England, our ideal candidate can select the best location for them: Auburn, Maine; Boston, Massachusetts; or Portsmouth, New Hampshire. With a holistic, ground-up approach to design, our civil team works closely with the firm's internal practice groups - coordinating with architects and engineers throughout the firm - as well as directly with prime engineering clients, on a diverse group of project types. If you're a collaborative, innovative engineer who is passionate about the built environment and can tackle technical reports, calculations, and specifications with ease, we want to meet you!

What you'll do here:

- Design and manage civil engineering and land development projects including grading, storm drainage, utility design, environmental design, facility planning, site layout, roadway design, and permitting for a variety of project types including schools, municipal facilities, retail and mixed-use developments, and more
- Complete engineering calculations for grading, drainage design, storm-water modeling, erosion and sediment control, and storm-water permitting
- Prepare technical reports and assessments, including applications for LEED certifications
- Produce engineering documents and civil specifications, including permitting documents for state and local permits
- Conduct comprehensive quality assurance peer reviews within the civil engineering discipline and coordinate with engineering, landscape and architectural team members.
- Support projects during construction administration phase
- Assist with the development of project proposals and develop project budgets
- Participate in business development and outreach opportunities to solicit and acquire new work.

Position Requirements:

- Bachelor's degree in Civil Engineering from an accredited program
- Professional licensure, or a commitment to obtain professional licensure
- Familiarity with governing State and National codes and standards
- Excellent interpersonal skills and the ability to establish and maintain client relationships
- Ability to manage multiple tasks concurrently and develop detailed construction documents and specifications
- Strong knowledge of design and analysis software including AutoCad, Civil 3D and HydroCAD
- Excellent interpersonal and communications skills and the ability to establish and maintain relationships with clients, coworkers, and consultant teams
- Active engagement in professional engineering organizations such as ASCE, ACEC, and others

Benefits

We offer competitive salaries and a full benefits package including medical, dental, 401K program and a friendly, collaborative work environment. Harriman is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or veteran status.

Apply online at www.harriman.com/careers/.

Employment Opportunities

CIVIL ENGINEER V #20050 - External(Job Id 12639)

State of New Hampshire Job Posting - Department of Transportation - Division of Project Development

Bureau of Bridge Design—7 Hazen Drive, Concord, NH

Civil Engineer V Labor Grade 30: \$66,393.60 - \$91,104.00 40 Hours per week Position #20050

The State of New Hampshire, Department of Transportation, Division of Project Development, Bureau of Bridge Design has a vacancy for a full time Civil Engineer V.

Summary:

To evaluate and manage the planning and design processes for the project development of bridge structures for the Bureau of Bridge Design.

Responsibilities:

Monitors, reviews, and participates in the development of engineering studies, cost estimates, contract plans, and contract proposals for bridges and related items in order to insure that all work is in compliance with project requirements, state specifications, and national engineering codes.

Coordinates between the Bureau of Bridge Design, other bureaus or agencies and consultants by providing and obtaining information, approvals, and permits necessary for the design and construction of projects.

Advises, appraises and supervises bureau personnel and/or consultants and the progress of work to maintain productivity, assure proper development of projects, and promote an understanding of bureau policies and standards.

Researches, analyzes, and evaluates design methods, technology and construction practices to arrive at recommendations which assure safe, practical, and economical bridges and roadways.

Conducts on-site investigations, reviews alternatives, and suggests actions to public officials, department administrators and consultants for correcting problems related to existing bridges.

Represents the Bureau of Bridge Design at formal public hearings, at informal meetings and discussions, and at departmental meetings to present and discuss project plans and answer questions relative to project needs and bureau policies.

Performs administrative duties as required to insure continuity of project development and responsiveness to requests by public officials.

MINIMUM QUALIFICATIONS:

Education: Possession of a Master of Science degree from a recognized college or university with a major concentration in civil engineering, or possession of a Bachelor of Science degree from a recognized college or university with a major in civil engineering and possession of a Master of Business Administration degree from a recognized college or university.

Experience: One year of work experience in the practice of civil engineering post Professional Engineer licensure.

OR

Employment Opportunities *(Continued from page 7)*

Education: Possession of a Bachelor's of Science degree from a recognized college or university with a major concentration in civil engineering.

Experience: Three years' work experience in the practice of civil engineering post Professional Engineer licensure.

OR

Education: Possession of an Associate's degree from a recognized college or university, with a major study in civil technology.

Experience: Five years' work experience in the practice of civil engineering post Professional Engineer licensure.

License/Certification: Applicant must possess a valid driver's license and have access to transportation for use in statewide travel. The applicant's Motor Vehicle Record (MVR) must meet the minimum standards as established by the hiring agency. Must be a Licensed Professional Engineer in the State of New Hampshire or a Licensed Professional Engineer in another state and obtain licensure in NH within one year of employment.

SPECIAL REQUIREMENTS: All accountabilities must be performed in accordance with State and Department rules and policies, including risk management, safety and environmental standards, regulations and administrative orders.

DISCLAIMER STATEMENT: The supplemental job description lists typical examples of work and is not intended to include every job duty and responsibility specific to a position. An employee may be required to perform other related duties not listed on the supplemental job description provided that such duties are characteristic of that classification.

For additional information contact Robert Landry, Administrator, at 603-271-2731 or at Bureau18@dot.nh.gov.

Want the specifics? Explore the Benefits of State Employment on our website: <https://das.nh.gov/hr/documents/BenefitBrochure.pdf> <https://das.nh.gov/hr/index.aspx>

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