



Granite Columns



President's Letter



I am deeply honored and proud to serve as your new SENH President. Let me start by welcoming all of you back. It has been quite a summer so far with historically unprecedented high temperatures and record rainfall amounts. These unpredictable weather conditions have affected the construction of many projects that most of us are involved with on daily basis. There appears to be a concerning shortage of building materials and most importantly labor in the construction industry. Constantly changing weather patterns, global warming, and climate change are not helping the current situation. Let's hope mother

nature will start to cooperate for the rest of the summer and into the fall so our construction projects can be successfully completed.

I would like to introduce the 2021-2022 SENH Board of Directors as follows:

- Josif Bicja, PE – President
- Jeffrey Karam, PE – Vice President
- Timothy Polson, PE – Secretary
- Sean Brown, PE – Treasurer
- Thomas Lamb, PE – Director at Large

I am humbled and grateful to have served on the Board of Directors the past 4 years alongside these thoughtful, dedicated and enthusiastic colleagues and friends. I would also like to thank all past Board of Directors and all committee members that have volunteered and dedicated their time on making SENH what it is today. I am privileged to continue to serve on your Board and to carry the torch forward into the new years to come.

We continue to be at the intersection of various Covid19 variants and the recent surge in cases is quite concerning. Please trust the science and get vaccinated if your doctor recommends it. With an optimistic mindset I am confident that science will prevail. I am very excited to announce that our next ASCE/SENH combined meeting will be held in-person at the Puritan Backroom in Manchester. I hope to see and talk with most of you there, however, if you do not feel comfortable attending our next meeting in-person, please join us virtually through ZOOM. For those of you that will come in-person we ask that you follow the CDC guidelines and wear a mask indoors even if you are fully vaccinated.

Lastly, I encourage all of you to participate and volunteer if you can, either for SENH or your local community to help others in need and most importantly elevate our profession. If you would like to participate on any of our committees, please feel free to reach out to me directly at (603) 460-5147 or President@senh.org. Thank you for your support and the privilege to contribute to the ongoing legacy of SENH.

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Special Points of Interest/ Reminders:

- *Mark you calendars! The annual Joint meeting with ASCE is scheduled for September 21st! See inside for details.*
- *Winners of the Excellence in Structural Engineering Awards are in! Check out the photos inside!*
- *Upcoming webinars and a volunteer opportunity inside!*

ASCE/SENH Joint Meeting Announcement

NEXT MEETING: Tuesday, September 21, 2021

PRESENTATION: ***Reconstruction of the Pease Runway***

In this presentation we will cover the original planning and need for runway reconstruction, and the funding challenges posed by the two differing federal design standards (Civilian FAA, and Military NHANG). Other topics will include the challenge of phasing of the runway reconstruction and why that is so important at an airport, the decision to have a temporary asphalt paving plant located on the airport, the continuity of our design team, challenges encountered related to COVID-19 and other factors affecting material supply and labor shortages, and how an internal design panel was utilized to cover lessons learned for the entire project.



SPEAKERS: **Robert Furey, PE:** Bob is Division Manager for Aviation Services at Hoyle, Tanner & Associates, Inc. He is a graduate of the University of New Hampshire Civil Engineering program, and holds a Master's of Science in Management from Troy State University. Bob is a former commissioned officer in the US Air Force having served in several Civil Engineering units while stationed in South Carolina, Guam, and overseas. His experience while working at Hoyle Tanner has progressed from airport design to construction management, to project management, to his current role as the Aviation Division lead and as the Chairman of the Board at Hoyle Tanner.

Nicole Crawford, PE: Nicole is a Project Engineer for Aviation Services at Hoyle, Tanner & Associates, Inc. and has been with the company for 7 years. She is originally from Rhode Island with a Bachelor of Science in Civil Engineering from the University of Rhode Island. She also earned her Master's Degree in Civil Engineering from Kansas State University, with an emphasis on transportation. Prior to joining Hoyle Tanner Nicole worked at Connecticut Department of Transportation as a Transportation Engineer. As part of the Airport Design team Nicole has worked on all phases of our airfield projects from permitting, design, construction administration, and construction inspection.

PLACE: September's Meeting will be offered both in-person and virtual.

IN-PERSON:

Puritan Conference & Event Center
245 Hooksett Road, Manchester, NH 03104
(603) 666-9893

VIRTUAL:

A Zoom link will be sent on the day of the meeting to those who are registered.

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
7:30 pm – 8:30 pm	Presentation
8:30 pm – 8:45 pm	Closing Remarks

The Zoom Meeting will start at approximately 7:10 pm.

ASCE/SENH Joint Meeting Announcement

DINNER: In-person buffet with choice of fried chicken tenders or broiled haddock with crumb topping. Served with greek salad, spinach salad, homemade mashed potatoes, steamed broccoli, warm rolls, and assorted desserts.

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

COST: “No-shows” will be billed at full amount. Refunds will not be issued.

	In-Person	Virtual
Member	\$50	\$20
Non-Member	\$75	\$45
Government Employee	\$30	\$0
Student	\$30	\$0

RSVP: By Tuesday, September 14, 2021. 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 **in-person** attendance. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the meeting.

1.0 PDH has been assigned for **virtual** attendance. Attendees are responsible for signing into the Zoom meeting with first and last name in order to receive the PDH.

SENH Webinar Announcement

As a member organization of the National Council of Structural Engineers Associations (NCSEA), SENH is occasionally able to provide a NCSEA recorded webinar to members free of cost.

PRESENTATION: **LOAD TESTING OF EXISTING STRUCTURES**

Full scale structural load testing is typically performed to verify the capacity of a structure, test a repair, or at the direction of a building official. Various codes exist with load testing procedures to be followed. Safety of the structure and personnel performing the test is of utmost importance during the testing.

This webinar will consist of a description of how load tests have been conducted using case studies of projects spanning the past 40 years. The case studies will highlight various loading mediums, such as water containers, hydraulic rams, lead ingots, and other items commonly found on a construction site, such as CMU block. The case studies will also include information regarding why the test was conducted and present pertinent findings.

DATE: Wednesday, October 20th, 2020
TIME: 12:00 pm – 1:03 pm Presentation
LOCATION: Virtual Meeting via Zoom
COST: FREE!
RSVP: Contact Jonathan Sproul at jsproul@proconinc.com

*Only those members who register beforehand **and** attend will receive access to the post webinar quiz.*

A zoom link will be sent to registered members prior to the webinar.

NOTE: 1.5 PDH has been assigned for attendane. Attendees are responsible for signing into the Zoom meeting with first and last name in and complete the post webinar quiz in order to receive PDH credits.

NCSEA

NCSEA SENH Benefits

submitted by Thomas Lamb, P.E.

The following links highlight some of the many benefits and resources available to SENH members.

Discount Publications:

<https://shop.iccsafe.org/ncsea-discounts?ref=NSE>

Structure Magazine:

https://www.structuremag.org/?page_id=11963

SENH Newsletter

<https://www.senh.org/news>

Awards

<https://www.senh.org/excellence-awards>

<https://www.senh.org/awards>

<http://www.ncsea.com/awards/>

Webinars:

<http://www.ncsea.com/education/webinars/>

SE review course:

<http://www.ncsea.com/education/sereview/>

Engineering resources and white papers:

<http://www.ncsea.com/resources/engineers/>

Diversity Including and Equality Resources:

<http://www.ncsea.com/resources/dei/>

Stem Outreach Resources:

<http://www.ncsea.com/resources/stem/>

Structural Engineers Emergence Response Resources:

<http://www.ncsea.com/resources/emergencyresponse/>

Career Resources and Job Postings:

<http://www.ncsea.com/resources/careercenter/>

<https://www.senh.org/awpcp>

NH Engineer Locator

https://www.senh.org/engineer_locator_search_engine

Volunteer Opportunity—Pro Bono Structural Engineers Needed

As many of you are aware over 65,000 reinforced concrete homes fully collapsed with another 60,000 with major damage not counting the thousands of other buildings; schools, clinics, churches, hospitals etc etc.

The assessment teams that are going out from the EOC timidly to assess many still standing structures are using a red, yellow, green, paint code system.....red means tear it down (we've been doing S&R and clearing "Red" sites for 14 days now.....green mean no problems. It's the yellow buildings that are the sticky wickets. We are sending a crew to St Patrick church is St Louis du Sud near the epicenter that did not collapse in the morning because the priest is fearful it will collapse. Decisions are being made very quickly. We will do cleanup of the adjacent collapsed school and likely tear the church down.

These teams REALLY need technical assistance and if there was anyway we could find some structural engineers that would volunteer a week or so to assist these teams it would literally save many lives.

It's a level 4 country right now so there is some risk traveling down

I'm traveling down soon to visit our Cashman Family Foundation crews, and assess damage so If anyone has any ideas please advise, I'd love to bring a team of structural with me.

David A. Murphy, PE
Board Member

Cashman Family Foundation; 617.319.0447 (cell)

549 South St, Quincy, MA 02169 617-890-0600

<https://cashmanff.org/>

Vice President

Tighe & Bond | 617.319-0447 (cell)

25 Kingston St, 5th Fl, Boston, MA; 617-536-0380



Committee Updates

Young Members Group *submitted by Sean Brown, P.E.*

Younger Members Group – Changing of the Committee Guard

Starting this September the Younger Members Group (YMG) will have new members leading the committee. Nevin Gomez and Joe Ripley have served SENH as the committee chair and vice-chair of the YMG and will be stepping down to spend more time with their families and young children. Congratulations on the new additions and thank you Nevin & Joe for your time and dedication to the YMG!

We are happy to announce two new members to the YMG Committee, Grant Erickson and Eric Caron.

Grant is an Assistant Structural Engineer in Transportation at WSP in Eliot, ME. He graduated from the University of New Hampshire with a B.S. in Civil Engineering in 2019 and is working towards a Master's Degree in Civil Engineering. Grant first attended an SENH meeting as a student in 2018. Grant lives in Dover, NH and enjoys mountain biking in the summer and backcountry skiing in the white mountains during the winter.

Eric is an Assistant Structural Engineer in Transportation at WSP in Merrimack, NH. He received a BS in Air Traffic Management before returning to college and receiving a BS and MS in Civil & Environmental Engineering from the University of New Hampshire in 2019. Eric began attending SENH meeting as a student in 2017. He and his wife, Jacqueline, live in Epping and enjoy hiking and gardening.

Please join us in welcoming them into their new roles, and look for upcoming YMG events in the near future.

Board Member of the Month

Josif Bicja, PE, SENH President

Josif is a Senior Structural Engineer and Associate for Hoyle, Tanner & Associates, Inc. and currently serves as Project Manager for bridge projects in New Hampshire and Vermont. He has been an active member of SENH since 2004 and previously served as the Chair of the Professional Development Committee from 2013 until 2017. Josif has also assisted UNH students with their senior Capstone projects and is actively involved with Manchester, NH middle schools promoting structural engineering to the new generations. He holds a Bachelor of Science and Master of Science in Civil Engineering from the University of New Hampshire and is a licensed Professional Engineer in New Hampshire and Vermont. He has 18 years of experience in the inspection, evaluation, rehabilitative and new design of numerous types of bridges. Josif has co-authored several historic bridge papers and was selected as the 2014 NH Young Engineer of the Year. He resides in Manchester, NH with his wife and two daughters.

Upcoming Events

CANAM-BRIDGES AISC STEEL DAY

American Institute of Steel Construction and National Steel Bridge Alliance is planning on holding a Steel Day event on Friday, September 24, 2021 at Canam Bridge in Claremont NH. The event will be a presentation session with lunch provided followed by a shop tour of Canam's shop.

If you are interested on attending please register at:

aisc.org/steeldaycanam

Or contact:

Vin Bartucca, Bridge Steel Specialist Northeast Market at bartucca@aisc.org or 857.337.7108

A NOVEL AFTERNOON: FABRICATION, ROBOTICS & MORE!

American Institute of Steel is holding networking event and shop tour at Novel Iron Works in Greenland, NH for this year's SteelDay event. If you haven't attended before, it's a great opportunity to check out their shop including the robotic welding and fit-up section utilizing the [Ziemann](#). The event is on September 24th and is completely free. Check out the link below for additional details and to sign up.

[Boston Steelday Signup Link](#)

May Meeting Attendance List

Improving Structural Rooftop Unit Framing in Commercial Constructions (2.0 PDH's)
Zoom Meeting Online
May 19, 2021

Name	Company	Name	Company		
Alex	Azodi	Omega Structural Engineers, PLLC	Gregg	Kussmann	Quick Frames USA, Inc.
Josif	Bicja	Hoyle, Tanner & Assoc., Inc.	Tom	Lamb	TFMoran, Inc.
Ryan	Brautovich	NH Dept. of Transportation	Rebecca	Lubrano	Simpson Gumpertz & Heger
Eric	Caron	WSP USA	Ken	Marshall	Foley Buhl
Robert	Champagne	Summit Engineering, PLLC	Dan	Martel	Team Engineering, Inc.
Normand	Cote	NGC Structural, LLC	Tim	Polson	WSP USA
Robert	Durfee	Dubois & King, Inc.	Michael	Richard	Simpson Gumpertz & Heger
Grant	Erickson	WSP USA	Bethel	Stephens	Stephens Associates Consulting Engineers, LLC
Ezequiel	Galvan	TFMoran, Inc.	Bruce	Stewart	Stewart Structural Engineering, PLLC
Kayla	Hampe	Hoyle, Tanner & Assoc., Inc.	Katelyn	Welch	Hoyle, Tanner & Assoc., Inc.
Tom	Kilrain	Department of the Navy	Ross	Wood	Hoyle, Tanner & Assoc., Inc.
Natalia	Kulchitsky	TFMoran, Inc.	<i>*Speaker</i>		

Business Portion of the Meeting

BUSINESS PORTION

- Tom noted that there are three Board of Director members with their 2-year terms ending. Tom Lamb, Josif Bicja, and Sean Brown have all volunteered to serve another term. Voting for the Board of Directors will be coming via online survey in the coming weeks.
- Excellence in Structural Engineering Award winners were announced:
 - ◊ *Special Structures* – **The H.L. Turner Group** for “School Street Parking Garage New Addition & Redevelopment”
 - ◊ *Bridge and Transportation Structures* – **DuBois & King** for “Lilac Pedestrian Bridge”
- Next meeting September (Joint meeting with ASCE) – more information to come.

PRESENTATION

- Gregory Kussman, Partner & Director of Business Development at QuickFrames USA presented “Improving Structural Rooftop Unit Framing in Commercial Construction”.
- The presentation covered a brief history of structural frames for roof top openings, and the modern solutions including bolt-on and adjustable QuickFrames. Mr. Kussman provided examples of common challenges encountered in the field from past projects and how the projects benefited from the cost and time savings that this approach can provide.

Excellence in Structural Engineering 2021 Award Winners

2021 Bridge & Transportation Winner: Dubois & King, Inc.—Gilford, NH
Entry: Lilac Bridge Replacement in Hooksett, New Hampshire



2021 Special Structures Winner: The H.L. Turner Group — Concord, NH
Entry: School Street Parking Garage Addition in Concord, New Hampshire




Employment Opportunities




Summit Engineering is seeking a motivated building structural engineer to join our award winning team in Portsmouth, NH. Candidate will be responsible for the structural design, drafting and project management of building projects located throughout New England, Florida and the United States Virgin Islands. BSCE required (PE preferred) with 4+ years' experience. Proficiency with Auto-desk REVIT required. Candidate should be familiar with the design and detailing of building structures and components constructed of steel, concrete, masonry and timber. Excellent benefits package that includes a retirement plan with employer matching and health insurance coverage provided. Please contact Bob at 603-319-1817 or bob@summitengineeringinc.com.

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