I just recently got back from a five day vacation to Sedona, AZ and Las Vegas, NV (although it was supposed to be a trip to the Grand Canyon for our 10 year wedding anniversary – thanks government shutdown!). I have never been to that part of the country and was amazed by the landscape and dramatic difference from New England (nice place to visit but would not want to live there). We did of course make a day trip to the Hoover Dam and the Hoover Dam Bypass Bridge – two amazing structures. A must see if you go to that part of the country. I would recommend taking the full dam tour (even though it costs more dam money...) as it takes you down inside the dam and through some of the many tunnels. The bridge walk is also a must- easy access, great views, and plaques documenting the design and construction.

I also noted a few interesting highway engineering sights. For anyone that loves roundabouts, Sedona, AZ is the place for you. They have eight roundabouts in a 2 mile stretch! Driving from Vegas to Arizona (I-40) is a long drive though almost nothingness, fortunately the speed limit is 75. The road is heavily travelled by trucks and most sections are in fair to poor condition and with an eight foot shoulder. What was most interesting was the small signs every few miles relating to bicycles that noted “Shoulder Use Only”.

Call for Newsletter articles! We are always looking for members to submit articles for print in the Newsletter. Article topics should be related to Structural Engineering, but could be about a recent seminar attended, Legislation, code topics, interesting projects, upcoming events, etc. If anyone is interested in submitting an article, please send to myself or Deb Coon.

If you have any questions or comments please feel free to contact me at (603) 225-2978 or President@senh.org.

Happy Holidays!
SENH NOVEMBER MEETING ANNOUNCEMENT

NEXT MEETING: Tuesday, November 12, 2013

PRESENTATION: **Risk Control Session, Shop Drawings and Contract Clauses** by, Michael Herlihy, ARM, CRIS of Ames & Gough, Inc.

SPEAKER: Michael Herlihy, is an executive vice president and an equity partner of Ames & Gough. He frequently speaks on risk management and insurance topics, including construction and design-related risks. Mike is very active on industry committees. He is considered an expert on underwriting and insurance placement matters.

PLACE: Sheraton Portsmouth Harborside Hotel  
250 Market St.  
Portsmouth, NH 03801  
(603) 431-2300

DIRECTIONS: Take I-95 to Exit 7. Turn right off the exit and proceed for approximately ½ mile. Bear right at blinking light and the hotel entrance is approximately 50 yards on left. Parking is on the right through gate.

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

DINNER: Buffet with choice of New England Style Baked Haddock or Roast Sirloin of Beef with Burgundy Mushroom Sauce.

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

RSVP: by Thursday, November 7, 2013. There will be a $5.00 late fee for anyone wishing to RSVP past this date. Student Members wishing to RSVP past the deadline will be subject to the member fee of $50.00.

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.
September Meeting Attendance List & Meeting Minutes
Tour of NH Motor Speedway Track with Presentations on the Pits, Track Surface, Grandstands and other fun “Engineering” Facts
NH Motor Speedway, Loudon, New Hampshire (2.0 PDH’s)
September 3, 2013

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Bill Ashford</td>
<td>CHA Companies</td>
<td>James L. Hall, Jr., P.E.</td>
<td>McFarland Johnson, Inc.</td>
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<td>Britt Audet</td>
<td>CMA Engineers</td>
<td>Scott Hartford, P.E.</td>
<td>Kalwall Corporation</td>
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<td>Tim Audet, P.E.</td>
<td>Hoyle, Tanner &amp; Assoc., Inc.</td>
<td>Sean James, P.E.</td>
<td>Hoyte, Tanner &amp; Assoc., Inc.</td>
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<td>Aaron T. Becker, P.E.</td>
<td>CHA Companies</td>
<td>Dennis R. LaBombard, P.E., SEC8</td>
<td>LaBombard Engineering, LLC</td>
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<td>Darren Benoit</td>
<td>McFarland Johnson</td>
<td>Stephen Langevin, P.E.</td>
<td>Greenman-Pedersen, Inc.</td>
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<td>Jeffrey M. Benway, P.E.</td>
<td>SFC Engineering Partnership, Inc.</td>
<td>Jeffrey Lloyd</td>
<td>Golder Associates</td>
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<td>Drew Brogan</td>
<td>FST, Inc.</td>
<td>Lisa M. Martin, P.E.</td>
<td>Quantum Construction Consultants, LLC</td>
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<td>David Bregan</td>
<td>Tige &amp; Bond</td>
<td>David J. Mensching</td>
<td>NHDOT</td>
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<td>Tim Businski, PE, CM</td>
<td>Zodiac Aerospace</td>
<td>Eric Chanan</td>
<td>Quantum Construction Consultants, LLC</td>
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<td>John Byatt, P.E.</td>
<td>CLD Consulting Engineers, Inc.</td>
<td>Niki Polish</td>
<td>CMA Engineers</td>
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<tr>
<td>Tim Cady</td>
<td>Summit Engineering, PLLC</td>
<td>Paul Schmidt, P.E.</td>
<td>Hoyle, Tanner &amp; Assoc., Inc.</td>
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<td>Robert Champagne, P.E., LEED</td>
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<td>Sean Serr</td>
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<td>Corey J. Clark, P.E.</td>
<td>S.W. Cole Engineering, Inc.</td>
<td>Jesse Sipple, PhD</td>
<td>RSE Associates, Inc.</td>
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<td>Nathan Cote, P.E.</td>
<td>S.W. Cole Engineering, Inc.</td>
<td>Adam M. Stockin, P.E.</td>
<td>Parsons Brinckerhoff</td>
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<td>Fred Emanuel, P.E.</td>
<td>Emanuel Engineering, Inc.</td>
<td>Andrew C. Wells</td>
<td>University of New Hampshire</td>
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<tr>
<td>Dan Evans</td>
<td>Quantum Construction Consultants, LLC</td>
<td>Christopher R. Wildes</td>
<td>S.W. Cole Engineering, Inc.</td>
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<tr>
<td>Chuck Flanders Jr., P.E.</td>
<td>NHDOT - District 5 Highway Maintenance</td>
<td>Steve Wolf, P.E.</td>
<td>CONTECH</td>
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<td>Christopher R. Fournier, P.E.</td>
<td>HEA Engineers</td>
<td>Ross Wood</td>
<td>CHA Companies</td>
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<tr>
<td>Thomas A. French, P.E.</td>
<td>French Engineering, LLC</td>
<td>John Zudell</td>
<td>NH Motor Speedway</td>
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Business Portion of the Meeting

1. ASCE President Drew Brassard opened the ASCE Business Portion of the meeting.
   - He introduced the ASCE Board of Directors present and acknowledged those not able to attend.
   - He gave a brief description of the new ASCE Advertising / Sponsorship Initiative.
2. SENH President Josh Lund opened the SENH Business Portion of the meeting.
   - He gave a brief summary of SENH activities from last year.
   - He introduced the Board of Directors that were present.
   - He gave a brief description of SENH Young Member Initiative.
3. Treasurer Bob Champagne reported that SENH is financially sound.
4. Bob Durfee, our NCSEA representative, reported that the NCSEA annual conference will be held September 18 through September 23 in Atlanta, GA; he indicated that he and our NCSEA Associate Delegate Alex Azodi will both attend; he mentioned and briefly discussed several NCSEA committees (Advocacy, Basic Education Requirements, Structural Engineering Licensure, Continuing Education, Membership Committee, Structural emergency Response, Young Members); lastly he reminded members that NCSEA will reimburse for travel to the Annual Conference in exchange for working on a committee.

Presentations

Brief Technical Presentation on NASCAR Safer Barrier—Presented by John Zudell of NH Motor Speedway, Loudon, NH
John gave a brief history of the significant forces that are imparted on a driver when the race care impacts the outside wall of a racetrack. He stated that the death of two drivers at the NH track and then the death of one of the sport’s icon prompted NASCAR to begin to research on a safer wall. NASCAR spent millions of dollars working with universities around the country to develop an impact attenuating system that could be installed along a track that met several criteria. The criteria included that it must not snag cars, it must mitigate energy transferred to the car, and it must be able to withstand significant forces without damage and lastly it must be easily and quickly repaired if damage does occur. The Safer Barrier was developed at the University of Nebraska-Lincoln. John explained that the wall is a composite wall made of a steel face supported by Styrofoam blocks that were placed against the existing concrete walls at tracks. The barrier was first installed in 2002. Shortly thereafter NASCAR mandated that all tracks have the barrier installed by 2005.

Brief Technical Presentation on the use of Reclaimed Asphalt Pavement (RAP) at Racetracks—Presented by PhD candidate David Mensching of UNH, Durham, NH
David is currently researching the compatibility of using RAP at racetracks at UNH. He gave a brief discussion on how racetracks differ from standard roads and that there is no tolerance for asphalt failure on these facilities. He discussed some of the complications of asphalt construction at racetracks and how RAP can help overcome some of those issues.

Respectfully submitted by Thomas French, PE, Secretary
Linda McNair-Perry Receives Distinguished Alumnus Award

SENH Past President, Linda McNair-Perry, received Carnegie Mellon’s Civil & Environmental Engineering (CEE) 2013 Distinguished Alumnus Award. This award was an acknowledgement of her accomplishments in advancing the structural engineering profession in New Hampshire and her dedication to the mentorship of engineering students.

On September 29, Linda and her family traveled to Pittsburgh, PA for the CEE Alumni Awards Luncheon at the historic Pittsburgh Athletic Association. The department honored six award recipients at the event that was attended by alumni, students, current faculty, family and friends. The CEE Distinguished Alumnus Award is given annually to individuals whose work has positively affected the engineering profession and improved people’s lives.

Congratulations Linda!

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

The State Building Code Review Board recently agreed that we will not be recommending to the legislature the adoption of the 2012 ICC Codes by the state. The Building Official Association had strongly advised that they supported this move. It is our understanding that the ICC intends to have the 2015 code available for review in 2014. Each code cycle creates an increasing financial impact to the building industry and government agencies charged with enforcement (and training) of the codes so is not to be taken lightly. I think that that each code update impacts structural engineers more than most, because we have so many other design standards that need to be updated as well.

So, while it is a bit trickier to skip a cycle of updates, the board felt it was the best course. We are not alone in going this route. Several other states are doing the same thing, including our neighbor to the south. The board also just learned that the State Fire Marshal is not planning to update the State Fire to include 2012 NFPA 1 and 101. He too, is looking ahead to the 2015 codes.

The board is in the process of reviewing the changes to the various codes (building, mechanical, plumbing, energy) to determine if there is something in the 2012 codes that is of such value that we would consider taking another few amendments rather than wait for the 2015 codes to be adopted. Keep in mind that it could be a year or two beyond 2015 before the legislature agrees to update to the 2015 codes. I have asked around to structural engineers on various ICC code committees and have not found anything that they thought would have a positive economic impact or was a significant (and just can’t wait) improvement to public safety in the 2012 codes.

I also asked for input from those using the 2012 IBC code because they practice in states that already have adopted it. Other than the changes in how wind load is calculated in ASCE 7, there does not appear to be anything major. I will complete my summary of significant changes to the structural provisions in the 2012 codes and provide a report to the board shortly. If you have any issues or concerns that you think should be included in this summary, please let me know.

Engineer & Young Engineer of the Year Nominations

SENH is seeking nominations for the Engineer and Young Engineer of the Year Awards. Nomination suggestions should be made to the Board without informing the nominee. Application packages are done without the knowledge of the applicant. SENH has a long history of winners for these awards. This shows how truly involved our membership is in the advancement of the profession and personal achievements of our members. Please talk to a board member if you have a nomination.
UNH Fall Career & Internship Fair—October 22, 2013

I will attend the UNH Career & Internship Fair on October 22, 2013 to mentor and advise the students as they seek opportunities to gain experience in structural engineering in their first full time job or as interns. I will collect résumés to share with those firms that are considering hiring, just give me call. Also let me know if you have a lead on jobs for recent grads or any news of internship that I can pass along. As always, your continued support of the UNH students is appreciated.

New and Improved Wildcat Careers Recruiting System

The UNH Career Center has introduced a new Symplicity recruiting system, which is similar to those utilized by hundreds of other colleges and universities across the country, to make it even easier for employers to recruit talented UNH students for internships and entry-level jobs. Current UNH students, as well as recent graduates up to one year out, will have full access to this site.

IT'S FREE! Employers click [here](#) to register and start using the new Wildcat Careers, where you can:

- Maintain a company profile for students to view and “favorite”.
- Post jobs/internships, access past postings, and see how many students view your postings.
- Request on-campus recruiting sessions or on-campus interviews.
- Search for UNH resumes in specific resume books students have opted into based on major or desired industry.
- Recruit from both UNH-Durham (all colleges) and UNH-Manchester students.
- View upcoming Career Center events your company can participate in.

Once your job posting is submitted, approved and active, your posting is marketed directly to specific students and faculty through the UNH Career Center staff. Please call 603.862.5086 or e-mail [Krystal.Hicks@unh.edu](mailto:Krystal.Hicks@unh.edu) Krystal Hicks, Associate Director of Career Support and Employer Outreach, if you have any questions. Tell her Linda from SENH sent you!
Our Sponsors

Employment Opportunities
Save the Date – May 1, 2014!!!! The University of New Hampshire Civil Engineering Industrial Advisory Board, in conjunction with the civil and environmental engineering faculty and students, will be holding the 3rd UNH Civil and Environmental Engineering Alumni Conference on the campus of UNH. The day will be filled with technical topics, educational sessions and networking between industry and academia. The first two conferences were such a success we are convinced that the third conference will be beneficial to all those that attend, present or participate in the conference. Should you have any questions, please contact Matthew J. Low, P.E. at mlow@hoyletanner.com or (603) 669-5555 ext. 128.

Board of Directors

President  Josh Lund, P.E., SECB
Vice President  Adam Stockin, P.E.
Secretary  Thomas French, P.E.
Treasurer  Robert Champagne, P.E., SECB
Director at Large  Christopher Fournier, P.E.