



SENH is looking for name for their new Newsletter—send us your suggestion and watch future issues for the name.

President's Letter

As you hang up your new 2007 calendar, you will have many engineering dinner meetings, breakfast series, conferences, and seminars that are worth noting. If there is not enough to choose from here, you can also check out the "NH Engineering Calendar" at www.nhecal.org where events for all NH engineering societies are posted.

Interspersed throughout the newsletter you will see UNH mentioned. The Board of Directors just had a long meeting with Assistant Dean Robert Henry, Ph. D., to talk about forging a stronger, mutually beneficial relationship. We got a tour of the soon to be finished Kingsbury Hall and discussed scholarships, internships, engineering seminars with students, continuing education,

distance learning and more.

SENH has successfully recruited student members and will continue to encourage them to attend our meetings. Many of them are looking for jobs and internships. From what I have been hearing, many of you are looking to hire them. The Board heard that the trend has shifted, with UNH having a strong field of structural engineering students. You will note many opportunities to interact with the students at various events planned in the coming months.

The other thread that is deliberately woven into many of the upcoming events is the opportunity for SENH to do some advocacy on behalf of our profession and our members. With the Professional Development Committee advancing the tech-

nical and business practice of structural engineers with their first rate meetings, the board has been freed up to focus on the other goals of SENH. Currently we are putting our time and energy into promoting our profession with the help of the new PR committee.

This all leads me to once again ask for your involvement. Hopefully without repeating the information in the Dues Renewal Notice, I would like to emphasize that there are opportunities (listed on the bottom of the form sent previously) for you to contribute to SENH. The board will work with you to see that such a commitment by you is rewarding. Please contact us; otherwise we might be contacting you and you will have to listen to this pitch one more time.

Upcoming SENH Meetings

The SENH Professional Development Committee has scheduled our **January meeting in Concord with a Bridge Topic: I-195 Reconstruction Project – Pre-assembly and Shipping of the new Providence River Bridge. It will be at the Grappone Center on January 24, 2007.** Prior to the main presentation, Mark Richardson, Administrator, Bureau of Bridge Design will briefly provide an update on current topics and new details at NHDOT.

The **March meeting** will be in Manchester with Nicolas Mangon from Autodesk coming to speak to SENH on **Building Information Modeling (BIM) and Autodesk's software package Revit Structure.** BIM is a hot topic for the future in the industry.

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Special Points of Interest/ Reminders:

- *January Meeting 1/24/07—Pre-assembly & Shipping of the new Providence River Bridge.*
- *SENH Dues Renewal Due 1/31/07*
- *Annual Engineers Week Banquet & Exhibition 2/22/07*

Annual Engineers Week Banquet and Exhibition

The **Annual Engineers Week Banquet and Exhibition is scheduled for February 22, 2007**. Watch your mail/e-mail or check www.nhspe.org for more details at a later date. At this year's Banquet, **SENH is planning to award the first scholarships** to UNH Juniors who have declared their concentration in structural engineering. UNH plans to bring a large contingent of UNH engineering students. They tend to be a bit shy, so please reach out to them by demonstrating your best networking skills.

Internships and Employment Opportunities

SENH will represent our members at the **February 28, 2007 UNH Engineering, Science and Technology Career and Internship Fair** that is sponsored by the Business and Industry Association of New Hampshire. In addition to the graduating seniors and graduate students, younger students will attend the event seeking internships, summer positions and information for future career planning. If there are jobs that SENH members would like to put before the students (and your

company is not having their own table), SENH will take your job posting to the Career Fair. The way to do this is to advertise your job and/or internship opportunity on the SENH website at bargain prices.

Alex Azodi, PE is representing SENH at the Career Fair and would welcome other members to join him in promoting our profession to college students. Space is limited (it is just a table after all), so it would be on a first come first

serve basis. This is an opportunity to interact with students and sharing with them what it is that structural engineering career has to offer and what is expected of them.

Following the Career Fair, NHSPE is planning to have a mid-afternoon seminar that will interest the participating engineers and students, so you might want to make a day of it.

Quality Based Selection (QBS) Coalition Update

New officers were selected with Bill Straub (NHSPE) & Art Guadano (AIA-NH) as Co-Chairs, Jim Karmozyn (SENH) now the Treasurer and a representative from the Landscape Architects to be Secretary. The coalition recently completed an update to the QBS tri-fold and they were mailed out in Early December to municipalities, hospitals, colleges & universities, regional planning commissions and school districts.

Can you name the newsletter

As you have noticed the newsletter has received a "face lift". With this new look we are now looking to name the newsletter and are appealing to the members to help us. If you have a suggestion for a name please e-mail your

suggestion to Deb Coon at dcoon@htanh.com. Deb will compile all suggestions and forward them the Board for a vote. Deadline for submittal is January 31, 2007. If your suggestion is selected, SENH will pick up the tab on your next

SENH Meeting! Good luck and we look forward to hearing your suggestions!!

Dues Reminder

To spare yourself a "harassing barrage" of e-mail reminders please send in your dues by January 31, 2007.

SENH November 9th Meeting Minutes

Business Portion of the Meeting

1. The meeting was called to order by President Linda McNair-Perry, PE, at 7:30 pm, after the social time and dinner.
2. Treasurer Report: Jim Kamonzyn announced that the SENH checkbook balance was \$12,373.57
3. New Members: Linda McNair-Perry, PE noted that the board approved 6 new student members: Benjamin Cota; Chad Greenlaw; Norman Losh; Heather Jones; Jeffrey Loring; and Luke Douglas. Jeff Loring was present and welcomed. Another student member, Miles Stetson was introduced. Both are looking for an internship.
4. NCSEA Conference: Robert Durfee, PE, the SENH NCSEA Rep., gave a report of his recent participation in the NCSEA National Conference noting that we need to be watchful for future code revisions that are going to likely incorporate “progressive collapse” and that the push is legislative more the technically driven (see NIST report). Bob noted he had the NCSEA Advocacy Committee posters for high schools with him. Bob also requested volunteers to help with the NCSEA adopt your alma mater campaign to help get the schools to reply to a survey and to help promote an adequate Structural Engineering curriculum.
5. Professional Development Committee – Rich Roberts, PE discussed the upcoming SENH Meetings, with Jan being a Rapid Bridge Project in RI on Wed Jan 24 at the Grappone Center in Concord. Future meetings may be Autodesk REVIT which is the upcoming trend in Building Information Modeling (BIM) software and the new truss bracing guidelines. He announced that Tony Coviolo is going to be the new Chairperson and he indicated that the committee would benefit from a new member.
6. Alex Azodi, PE discussed his attendance at the ASCE/SEI National Meeting. He noted that there is one area where we as an organization needed to play catch up and that was with improving our relationship with the educational institutions in our state. SENH has in fact started on that road through:
 - A. UNH Career Day– (Alex) SENH attended the 10/18 Business and Industry Association of NH/UNH Engineering, Technology and Business Internship and Career Fair and plans to attend the next one in February as well. SENH will help promote employment or internship opportunities for firm’s that have posted classified ads on the SENH web site.
 - B. Discussions with Associate Dean Henry relative to forming alliance between UNH and SENH that is hopefully mutually beneficial.
 - C. Reaching out to students and increasing our student membership.
7. Alex Azodi PE introduced the speaker - Alex Blanco, Chief Underwriting Officer, Poole Professional Ltd.

Technical Presentation: *Alex Blanco, Chief Underwriting Officer, Poole Professional Ltd., “Site Visit Guidelines for Structural Engineers”.*

What it takes to get in legal and financial trouble includes technical and non technical factors. The technical factors include errors of omission in design and the violation of the code. The non technical factors accounts for 80% of all claims against the design professional. It stems from poor communication, lack of contracts and negotiated requirements, untrained and unprepared people and the lack of procedures to identify and address contract problems. Comparative claim statistic among design professionals show that architects bear the brunt of the claims, followed by civil engineers, with structural engineers incurring the least amount of claims. Claims originate from owners/clients who charge negligence on the professional part therefore will not pay the professional fees. They arise from other third party persons because of bodily injury suffered at the site. They arise from economical loss due to the failure of starting a business on time. Contractors sue for more funds arising from changes in job scope. The frequency and severity of claims can be categorized by building groups. Residential buildings have the highest rate of claims followed by commercial/industry, schools and then malls. Bridges have the least documented claims.

For structural engineers, eighty percent of the claims that the insurance firms must deal with are non technical in nature. Average cost of claims is \$26,000. Associated costs are loss opportunities and profits from new jobs. The engineer's main role at the site is to determine if the job is proceeding correctly. If it is not, the engineer should notify the contractor of the problem. Special Inspections, if contractually obligated to perform, must be done or it becomes a breach of contract. Do not use site visits as on job training for new engineers. The engineer should know and not overstep their role.

Keep in mind that the engineer is on site because the owner because agreed to periodic observation by a structural engineer. To reduce risks, refrain from misusing terms. Structural engineers are not inspectors. Structural engineers are observers. Observation is to see, watch, perceive, or notice. Do not perform detail examination of work in progress. Beware of the overall construction process. Take the initiative to address issues up front.

Continued on next page...

SENH November 9th Meeting Minutes

Technical Presentation: *Alex Blanco, Chief Underwriting Officer, Poole Professional Ltd., "Site Visit Guidelines for Structural Engineers".*

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Preparation

Prior to a site visit some preparatory action is required. First, a site work policy should be in the contract documents. The contract should be flexible to allow scope modifications when and if the project changes. As a professional, do not sign general contracts (i.e. role, the times and duties are to be specific). Ask if there are certification requirements up front. Have it understood that you need at least five work days in advance of any certification deadline. Note that many insurance companies are willing to perform contract review. In the contract there should be the clear requirement that the engineer is to verify that drawings are recent and that proper practices are being adhere to. The observing structural engineer needs to be trained in how to conduct site visits. The observing structural engineers should be prepared and familiar with the project before stepping foot on the site.

Site Visit

When conducting a site visit, check in and let people know who you are. Verify construction drawings are current and correct. Verify drawing contain SER review stamp on each page. Check the current status of work. Establish your procedures and purpose. Inform the contractor what you are looking at, and what you are not looking at. Observe the work in general by walking around. Follow up afterwards by observing more specific detailed items. In addition of taking note paper, take a recording device with you such as a camera, video camera, or voice recording device.

When taking pictures, make an over-view shot first. Then make a close up shot using a familiar object such as a pen to establish scale.

Always check out at the site to establish when you came and left. When checking out, point out non-conforming work and other observations that are unclear or questionable. Some firms have the superintendent sign you out on the field report. If there are work deficiencies, discuss the options for remediation. Do not make quick decisions. Notify the superintendent you are leaving and note the time to be included in your site visit report.

Your conduct at the site

If a defect is discovered notify the appropriate people, such as the contractor, owner's representatives, etc. Need to also document the discovery in a letter. If not satisfied with the response take stronger action. Get help by talking to a broker and legal counsel. Have the legal counsel write a letter addressing your concerns.

Writing site visit reports

Reports should be written as soon as possible after each visit. It should be thorough noting all deviations from the plans and specifications. It should address the needed changes and the cost implication for each change. It should cover outstanding issues noted from previous site visits. Document all observations. Clearly stipulate the non conforming work problems. Distribute the report to your client.

Recognizing and dealing with disagreements

It is imperative to prevent the breakdown of communication between parties. To that end, training is needed in dealing with crucial and ignored aspects of the project. Keeping good relationship prevents the breakdown in communication. Look for early warning signs such as field disputes. The contractor may be fishing for extra funds by prompting for field changes.

If a problem arises, remain calm. Work up a plan of action early. Establish who what when and how to correct the problem. Report the situation immediately to the project manager, principal, etc. Do not assume any responsibility for the problem. Keep the problem separate from the people involved. Seek alternative solutions. Do not stop communicating.

Conclusion

Effective communications is critical. Engineers should be careful of what they say at the site because problems arise from misunderstandings. Unfortunately, inexperienced or unqualified staffs are frequently sent to visit sites as part of their training which contributes to this problem.

2.0 PDHs for the technical presentation were earned by attendees.

Respectfully submitted by Robert S. Busby, P.E., Secretary, SENH

Attendance List

Site Visit Guidelines for Structural Engineers (2 PDH's Assigned) The Sheraton Harborside, Portsmouth, NH November 9, 2006

Name	Organization	Name	Organization
Sahnoune Abed	<i>Bay State Design Associates, Inc.</i>	Tim Hodgdon	<i>H. L. Turner Group</i>
Geoffrey R. Aleva, P.E.	<i>Civil Consultants</i>	Ronald Jackson	<i>Bay State Design Associates, Inc.</i>
Matthew Allen, P.E.	<i>JSN Associates, Inc.</i>	Sean James, P.E.	<i>Hoyle, Tanner & Assoc., Inc.</i>
Alex Azodi, P.E.	<i>Omega Structural Engineers</i>	Steve W. Johnson, P.E.	<i>Vanasse Hangen Brustlin, Inc.</i>
Christopher Baker, P.E.	<i>Vanasse Hangen Brustlin, Inc.</i>	James Karmozyn, P.E.	<i>H.E. Bergeron Engineering</i>
Roderick D. Bard, P.E.	<i>Stahlman Group, Inc.</i>	Tom Kilrain	<i>Kimball Chase</i>
Shannon Beaumont	<i>CLD, Inc.</i>	Stephen Kiss, P.E.	<i>SAK Engineering</i>
Paul M. Becht, P.E.	<i>H. L. Turner Group</i>	Joe Klementovich	<i>H.E. Bergeron Engineering</i>
Josif Bicja	<i>Hoyle, Tanner & Assoc., Inc.</i>	Dave Konieczny, P.E.	<i>Pyramid Engineering, P.C.</i>
Alex Blanco	<i>Poole Professional Ltd.</i>	Bob Landry	<i>NHDOT</i>
Tony Bond	<i>Bond Design Services, LLC</i>	John Lavigne	<i>H. L. Turner Group</i>
Jay H. Brown, P.E.	<i>Structural Systems, Inc.</i>	Jonathan, M. Longchamp, P.E.	<i>Daigle Engineers, Inc.</i>
Tim Bryant	<i>Vanasse Hangen Brustlin, Inc.</i>	David A. Macolini, P.E.	<i>JSN Associates, Inc.</i>
Robert S. Busby, P.E.	<i>Kalwall Corporation</i>	Nathan Maher, P.E.	<i>JSN Associates, Inc.</i>
Robert R. Bussiere, P.E.	<i>Bussiere Engineering</i>	Mark McLeod	<i>H. L. Turner Group</i>
John Byatt, P.E.	<i>CLD, Inc.</i>	Brian Mitchell	<i>Structural Systems, Inc.</i>
Robert Champagne, P.E.	<i>Kimball Chase</i>	Raymond G. Morin, P.E.	<i>Raymond G. Morin, P.E.</i>
Jeffrey P. Cicerello, P.E.	<i>Louis Berger Group</i>	Cynthia A. Mrazik	<i>JSN Associates, Inc.</i>
Normand G. Cote, P.E., SECB	<i>NGC Structural, LLC</i>	Tom Mullen	<i>Poole Professional Ltd.</i>
Cheryl W. Coviello, P.E.	<i>Appledore Marine Engineering, Inc.</i>	Jeffrey S. Nawrocki, P.E.	<i>JSN Associates, Inc.</i>
Tony Coviello, P.E.	<i>JSN Associates, Inc.</i>	Cindy Noret	<i>Structural Systems, Inc.</i>
Edward F. Decelle	<i>Structural Systems, Inc.</i>	Linda McNair Perry, P.E.	<i>GV Engineering, LLC</i>
Luke D. Douglas	<i>UNH</i>	Neil J. Rapoza	<i>Civil Consultants</i>
Robert H. Durfee, P.E.	<i>Dubois & King, Inc.</i>	Stephen Richard	<i>Steffensen Engineering Assoc., Inc.</i>
David F. Emanuel	<i>Emanuel Engineering, Inc.</i>	Richard E. Roberts, P.E.	<i>Foley & Buhl Engineering, Inc.</i>
Fred Emanuel, P.E.	<i>Emanuel Engineering, Inc.</i>	Hossein Salehkhrou, P.E.	<i>JSN Associates, Inc.</i>
Joel Fisher, P.E.	<i>Fisher Engineering, P.C.</i>	Jim Spaulding	<i>H. L. Turner Group</i>
Roger W. Gayer, P.E.	<i>Structures Unlimited, Inc.</i>	Miles P. Stetson	<i>University of New Hampshire</i>
Dan L. Gelinis, P.E.	<i>Gelinis Structural Engineering, LLC</i>	Veronica E. Thibodeau, P.E.	<i>TTG Environmental, LLC</i>
Carl L. Goldknopf, P.E.	<i>GV Engineering, LLC</i>	Edward Weingartner, P.E.	<i>Hoyle, Tanner & Assoc., Inc.</i>
Martin Gorham, P.E.	<i>JSN Associates, Inc.</i>	Sarah Zoni	<i>JSN Associates, Inc.</i>
Sally Gunn	<i>Vanasse Hangen Brustlin, Inc.</i>		

SENH JANUARY MEETING ANNOUNCEMENT

NEXT MEETING: Wednesday January 24, 2007

DOT UPDATE: Prior to the main presentation, Mark Richardson, PE, from the NH Department of Transportation will give a short update on current topics and new details at NHDOT.

PRESENTATION: **“I-195 Reconstruction Project – Pre-assembly and Shipping of the new Providence River Bridge”**, Bryan L. Busch, PE
CME Associates, Inc. E. Hartford, CT.



The 400-ft span 160-ft wide steel tied arch bridge is an example of rapid bridge construction. The bridge was prefabricated off-site and barged in one piece to the jobsite. CME is under contract for the Federal Highway Administration to produce a manual on accelerated bridge construction.

PLACE: **Grappone Conference Center at the Courtyard by Marriott**, 70 Constitution Drive, Concord, NH. Phone 225-0303

DIRECTIONS: I-93 to Exit 15W/US-202W in Concord (I-395 West), towards N. Main St. Turn right onto Commercial St. before N. Main St. and then right onto Constitution Ave.

AGENDA:
5:30 pm-6:30 pm Social Hour
6:30 pm-7:15 pm Dinner
7:15 pm-7:30 pm Business Meeting
7:30 pm-8:50 pm Presentation

DINNER: New England Buffet; Baked Haddock and Yankee Pot Roast.

COST: Member: \$40.00 Non-Member: \$45.00 Full Time Student: \$10.00

RSVP: by Wednesday, January 17, 2007

Please send check payable to “Structural Engineers of New Hampshire” with list of attendees to:

SENH
P.O. Box 226 Manchester, NH 03105-0226 Contact: Deb Coon, Administrative Assistant,
(603) 669-5555

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.



A 400 foot long and 80 foot high section of the new Providence River Bridge moving across a pier at Quonset.
Photo courtesy of the CME website www.cmeengineering.com

Additional Meetings & Conferences

ANNUAL AMERICAN COUNCIL OF ENGINEERING COMPANIES OF NH (ACEC-NH):

Monthly Breakfast Series will address issues that are relevant to the growth and well being of the engineering profession, including economic trends, legislation, financing, technology, education and workforce issues. Doors for all breakfast series events will open at 7:15 AM with speakers commencing at about 8:00 AM. The program will conclude at about 9:00 AM.

ACT FAST: January 9: The first in the series is Tom Burack, Commissioner of the DES who will speak at the Holiday Inn in Concord. **RSVP required by January 3** (if there is still space available): ACEC-NH Executive Director, Alex Koutroubas, (603) 225-7397

Plan Ahead: Future Speakers in 2007 will include:

February: *LEGISLATIVE UPDATE:* William Gabler, Lobbyist for ACEC-NH

March: Kevin Dillon, Manchester-Boston Regional Airport Director

May: Robert Varney, Regional Administrator U.S. Environmental Protection Agency

June: George Bald, Commissioner, Department of Resources and Economic Development

NCSEA WINTER INSTITUTE

The NCSEA Annual Winter Institute will be held this year in New Orleans. The two day seminar will be held on January 26-27, 2007 and will focus on lessons learned from Hurricanes Katrina, Ivan, Rita and others. Included with the seminar is a tour of damaged areas of New Orleans. For complete information on the Institute agenda, online registration and hotel accommodations, visit the NCSEA website at: www.ncsea.com

NHSPE: The February meeting will be An Update on Fire a& Building Codes and Trades Licensure in NH. This meeting will be held February 1, 2007 5:30 PM to 8:30 PM at Fratello's Restaurant, Manchester NH. Please visit

http://www.nhspe.org/pages/events/feb07_notice.pdf for more information.

MeSPE: The MeSPE Annual Symposium is being co-sponsored by The Maine Society of Professional Engineers & The University of Maine's Advanced Manufacturing Center. The symposium will be held February 23, 2007 8:30 AM to 4:00 PM at Verrillo's Conference Center, Westbrook ME. Please visit <http://mespe.org/> for more details.

The Joint NH Engineering Societies, which includes SENH, are planning the first **Annual Joint Society Conference on October 11** that will be in Manchester. Details to follow.



**STRUCTURAL ENGINEERS OF NEW
HAMPSHIRE**

**P.O. BOX 226
MANCHESTER, NH 03105-0226**

WWW.SENH.ORG



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