

# Structural Engineers of NH

## August 2006



*Serving New Hampshire*

**Next Meeting:**

**Wednesday**

**September 27, 2006**

**The Engineer as Expert  
Witness in  
New Hampshire**

**The Derryfield  
Restaurant  
Manchester, NH**

### **SENH PRESIDENT'S LETTER...**

The September 27<sup>th</sup> meeting will be a joint meeting with ASCE-NH held at The Derryfield Restaurant in Manchester and will feature a presentation by Matthew R. Johnson, Esq., Devine Millimet & Branch P.A.

#### **SENH/ASCE Golf Outing**

Preceding September 27<sup>th</sup> meeting there will be an informal SENH/ASCE golf outing at the Derryfield Country Club prior to the meeting. Contact Rich Roberts at rroberts@fbra.com for further information. See the enclosed announcement.

#### **Board of Directors Update**

At the June 1<sup>st</sup> meeting James Karmozyn and Linda McNair Perry were re-elected to another term on the Board of Directors. At the July board meeting, Steve Johnson announced that due to commitments this year, including work on the fledgling SENH PR Committee, he did not feel that he could adequately fulfill the duties of President. As such, we had a re-shuffling of the Board of Directors position, which are:

Linda McNair-Perry, PE	President
Alex Azodi, PE	Vice-President
James Karmozyn, PE	Treasurer
Robert Busby, PE	Secretary
Steve Johnson, PE	Director-at-Large

Thanks go out to Steve Johnson for his service as SENH President the last two years.

Please don't hesitate to contact any of the above members of the board if you have any questions or suggestions on how to improve our organization.

#### **New Hampshire Office of Emergency Management (NHOEM)**

This fall NHOEM will be presenting three (3) Engineer Reservist Courses based primarily on ATC-20, 21 and 45 that will be taught by Dr. Louis Klotz to facilitate emergency response activities of professional engineers in NH. Course 1 will provide a basis for pre-event screening, Course 2 will provide instruction in post-event (earthquake, blast, wind or flood) analysis and Course 3 will offer hands-on computer instruction of FEMA's In-CAST (Inventory Collection and Survey Tool) and HAZUS (Hazards US). Details relative to time, place and costs (much of which are being born by the state) will be forthcoming in an upcoming e-mail announcement.



Member of



<b>Inside this issue:</b>	
Presidents Letter	1-2
June 1, 2006 Meeting Minutes	3-4
September Meeting	5

**Dues Reminders**

You know who you are! Reminder letters were sent to those whom our records show as 'not current' for this calendar year. Please promptly fill out the form and return it to Deb Coon.

**SFNE and Emile Semi-Retirement**

SSFNE has morphed into The Steel Fabricators of New England (SFNE). They have the same web site [www.ssfne.org](http://www.ssfne.org). (Keep that extra 's' in the web address or you will end up at the San Francisco Needle Exchange website.) SFNE is an association of structural steel and miscellaneous metal fabricators and allied companies promoting the use of fabricated steel and misc. metals in buildings, bridges and similar structures through improved communication and networking; and assist members and others in the design and construction industry through education and technical support. Contact Hollie Noveletsky (HNoveletsky@Noveliron.com), President if you have questions.

Emile Troup announced his semi-retirement, having retired from SFNE. However, we will continue to see Emile around NH in his positions as the on-site coordinator of AISC national seminars and with NCSEA.

**NH Quality Based Selection (QBS) Coalition**

SENH is one of the six sponsoring organizations which form a New Hampshire coalition to promote quality based selection process for procurement of professional design services. SENH is represented by Norm Cote, PE (current Chair) and Jim Karmozyn, PE. Recently, the NHQBS coalition called on the sponsoring groups to enlist new members and reevaluate the priorities of the ad hoc organization. Consequently, the group is becoming reinvigorated and is renewing its efforts to reach out to municipal and state leaders to educate them on procurement procedures required by the Mini Brooks Law.

Check the web site [www.nhqbs.org](http://www.nhqbs.org) for more information on QBS which is mandated for all Federal projects. NH laws require all state agencies use QBS and there are examples of numerous other organizations and municipalities using QBS because it works. In addition, the American Bar Association (ABA) and the Associated General Contractors (AGC) support the QBS process on a national level. Contact Norm and/or Jim if you have questions or could use the assistance of NHQBS.

**Structural Engineers Association of Massachusetts (SEAMass)**

BASE (Boston Association of Structural Engineers) recently created SEAMass to be an individual based organization. BASE will exist as a business forum within SEAMass and retain its original purpose of exchanging professional and business issues among its firm members.

**Other Meetings and Seminars**

SEAMass will hold its first meeting September 21, 2006 which will include a program on the new Massachusetts State Building Code, due to in draft form in early September. See [www.seamass.org](http://www.seamass.org) for the registration form. The meeting will be held at the Holiday Inn in Newton (just off Rt. 95 and has free parking). SENH members get a member rate, which for the SEAMass September meeting is free -- or should I say the cost of gas. Car-pool and save on gas!

SEAMass will sponsor the Bracing Design for Stability: Columns & Frames seminar on November 1, 2006 which is also at the Holiday Inn in Newton. You can register for that event at <http://ncsea.com>

Remember to keep an eye open for the announcement with all the specifics for the NHOEM Engineer Reservist training courses.

Sincerely,  
Structural Engineers of New Hampshire  
Linda K. McNair-Perry, P.E.  
President



## Structural Engineers of New Hampshire Meeting Attendance

**DATE:** June 1, 2006

**PLACE:** The New England Center, Durham, NH

**RE:** What to expect from a UNH Engineering Graduate  
(2.0 PDH Assigned)

NAME	ORGANIZATION
Geoffrey R. Aleva, P.E.	Civil Consultants
Matthew Allen, P.E.	JSN Associates, Inc.
Roderick D. Bard, P.E.	Stahlman Group, Inc.
Robert S. Busby, P.E.	Kalwall Corporation
Professor Ray Cook, P.E.	University of New Hampshire
Normand G. Cote, P.E., SECB	NGC Structural, LLC
Tony Coviello, P.E.	JSN Associates, Inc.
Cheryl W. Coviello, P.E.	Appledore Marine Engineering, Inc.
Kathy J. Dougherty, P.E.	---
Robert H. Durfee, P.E.	Consultant
Fred Emanuel, P.E.	Emanuel Engineering, Inc.
Thomas A French, P.E.	Hoyle, Tanner & Assoc., Inc.
Martin Gorham, P.E.	JSN Associates, Inc.
James Grant	JSN Associates, Inc.
Timothy L. Grant, P.E.	TL Grant Engineering Consulting
Robert S. Hartford, P.E.	Kalwall Corporation
Steven M. Hodgdon, P.E.	Vanasse Hangen Brustlin, Inc.
Steve W. Johnson, P.E.	Vanasse Hangen Brustlin, Inc.
James Karmozyn, P.E.	H.E. Bergeron Engineering
Roger Keilig, P.E.	HTE Northeast, Inc.
David A. Macolini, P.E.	JSN Associates, Inc.
Nathan Maher, P.E.	JSN Associates, Inc.
Kenneth G. Marshall, P.E.	Foley & Buhl Engineering, Inc.
Jeffrey S. Nawrocki, P.E.	JSN Associates, Inc.
Linda McNair Perry, P.E.	GV Engineering, LLC
Neil J. Rapoza	Civil Consultants
Richard E. Roberts, P.E.	Foley & Buhl Engineering, Inc.
Richard A. Rouleau, P.E.	Consultant
Hossein Salehkhrou, P.E.	JSN Associates, Inc.
Miles P. Stetson	University of New Hampshire
Sarah Zoni	JSN Associates, Inc.

## SENH June 1, 2006 Meeting Minutes

### I. BUSINESS PORTION OF MEETING:

1. The meeting was called to order by President Steve W. Johnson, PE, at 7:30 pm, after the social time and dinner. Steve reiterated that this meeting serves as the annual membership meeting which is held once a year. It is at this meeting that qualifying members are selected and elected to positions on the SENH board that are up for re-election. The candidates running for Treasurer and Secretary were James Karmozyn and Linda McNair-Perry respectively. Since there were no other nominations, these candidates were re-elected to their current positions.
2. Treasurers Report: James Karmozyn stated that the checkbook balance is at \$14,253.16. Pending expenses include the NCSEA Annual dues which have increased from \$12.00 to \$15.00 per person. The cost of tonight's meeting will also be deducted from the current balance. Unfortunately it was recently discovered, that some checks for the 2006 membership dues were lost in the mail. Those individuals affected have already been contacted.
3. NCSEA Business: Robert Durfee stated that NCSEA deadline for the Special Awards program is June 16, 2006. Anyone wishing to compete for this prize is advised to visit the NCSEA website for information. NCSEA is presenting a web seminar on ASIC design June 21. The cost is \$250 per site which can be very cost effective for PDH credit if many individuals participate at a particular location. The annual NCSEA conference is scheduled for 14-16 September at Salt Lake City, UT. The general topics are blast loads, avalanche loads, and blast progressive collapse resistance.
4. SENH does budget for the NCSEA awards program and will pay the entry fee for any member wishing to compete for the award. SENH is also considering sponsoring a local program too and welcomes suggestions from the membership in starting this program.

### II. TECHNICAL PRESENTATION

#### ***Professor Ray Cook, University of New Hampshire, "What to expect from a UNH Engineering Graduate"***

ABET is the US recognized accreditor of colleges and university programs in applied science, computers, engineering and technology. After reading all the ABET documents, the civil engineering faculty modified their academic program to meet the ABET objectives.

To maintain quality and ensure proper objectives, a system new system was set up to review and update all components as the need arises. The new Civil Engineering curriculum has improved because of these changes.

Two kinds of objectives were established. One labeled Student Objectives represents the expectation of what students can do when they graduate. The students are expected to be competent in math, science and have the basic engineering skills. They should be able to communicate and defend their ideas verbally and in technical reports. The students are expected to work effectively as a team member, be able to locate, compile and use existing information. It is expected they have awareness of the interaction between different engineering practices and in issues relating to economics and to the environment. Naturally the students should be prepared for, or have taken, the Fundamental of Engineering examinations by graduation.

The second objective, labeled Alumni Objectives comprises the attributes of the graduate five or more years in the future. The alumni should be licensed practicing civil engineers. Paralleling the student objects, they are expected to be effective communicators, good team players, effective researchers, and good engineering citizens aware of the social, economics and environmental impact of their engineering solutions.

The curriculum has dramatically changed to meet the above goals. For example, to help the student enter the engineering world quickly and support themselves during school breaks, they are introduced to CAD and surveying the first year. The first year courses and subjects were selected and designed to get the students involved and excited by civil engineering. Course CIE 402 uses current events to show how things get built. The student should realize quickly if civil engineering is the right profession for them. The success of the program is measured by the percentage of students who are retained in the curriculum. Sixty percent of the students entering the college from High School remain the full four years. Twenty five percent transfer to other engineering schools and disciplines. Only seven percent are dismissed. Seventy five percent of students who transfer in from other colleges stay to graduate in Civil Engineering.

The curriculum was tailored to the civil engineering discipline. Courses such as chemistry and physics were trimmed to provide basic necessary knowledge. This action allowed more pertinent subjects to be introduced. The student has more technical electives to choose from. Since communication is extremely important to the engineer, more writing courses were introduced. A foreign language elective is offered for those who plan to work in foreign countries. Unfortunately, the students entering college do not have equal educational backgrounds. A special math course was introduced to help improve the skills of those students lacking in mathematical knowledge. It was design to accelerate the individual to an equal level of their peers by the sophomore year.

To ensure potential employers know the strength and weakness of the student, UNH made the marking of grades more stringent for critical courses (statics, dynamics, strength of material, etc.). The average grade for the class in those courses would be a well earned "C". Grades should mean something; therefore, one goal of the new program is to eliminate grade inflation. In line with the new policy, the number of independent study courses has been limited. The courses are evaluated to ensure it supports the student's objective as well as the objective of the University in giving a quality education. The evaluation is performed by the faculty, the student themselves and by sources outside the university, including employers and alumni. Questionnaires are part of the evaluation process. The feedback is used to tweak the program and modify the courses.

In spirit of the new program, a questionnaire was distributed to the present SENH attendees regarding the importance of various civil engineering courses and potential development of other course offerings. For example, it was asked the importance of teaching LRFD versus ASD for Concrete, Steel, etc. Should SI units be included when teaching various subjects? The questionnaire also asked what codes should be taught (ACI, AISC, IBC, etc.)? The questionnaires were collected at the end of the meeting

#### ***2.0 PDHs for the technical presentation were earned by attendees.***

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

**SEPTEMBER MEETING ANNOUNCEMENT**

- NEXT MEETING: Wednesday September 27, 2006  
**Joint Meeting with ASCE New Hampshire**
- PRESENTATION: **“The Engineer as Expert Witness in New Hampshire”**  
Matthew R. Johnson, Esq., Devine Millimet & Branch P.A.
- PLACE: **The Derryfield Restaurant**  
625 Mammoth Road, Manchester, NH  
Phone 623-2880
- DIRECTIONS: I-93 to Exit 8, West on Bridge Street, Left onto Mammoth Road at second traffic light. Restaurant is at the Derryfield municipal golf course, ¼ mile, on left.
- 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: Buffet: Grilled Beef, Pecan-Encrusted Salmon, Chicken New England.
- COST: Members of SENH and ASCE: \$35.00 Non-Member: \$40.00  
Full Time Student: \$30.00
- RSVP: by Wednesday, Sept 20, 2006  
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.
- SPECIAL NOTE: **Informal SENH/ASCE Golf Outing** beginning 12:30-1:00 PM, prior to this meeting. Those interested in playing please e-mail [rroberts@fbra.com](mailto:rroberts@fbra.com) for player count and further information. Please register before September 20<sup>th</sup>.



**STRUCTURAL ENGINEERS  
OF NEW HAMPSHIRE**

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WE'RE ON THE WEB!  
[WWW.SENH.ORG](http://WWW.SENH.ORG)

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