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STRUCTURAL ENGINEERS OF NEW HAMPSHIRE

Granite Columns

President's Letter

I am honored to be the new SENH president for this upcoming year. I have been on the board for the last five years, this will be the last year I will be able to serve this great organization as a board member, and I will strive to continue the outstanding work of my predecessors. I am looking forward to working with continuing and new members of the board, and I am confident we will take this organization another step forward.

Special thanks are in order to the outgoing board members, Linda Perry (president) and Jim Karmozyn (treasure) for their outstanding, selfless dedication, and devotion to the well being of this organization. We will miss them on the board. Both Linda and Jim have graciously offered and have volunteered to continue helping with various functions of SENH. I would also like to offer special thanks to our dedicated members such as Bob Durfee, Linda Perry, Matt Low, Jeff Tirey, and many others who show up again and again to turn the wheels of this organization and to help the members. With that said, I will concentrate the focus of my letter this month, and perhaps my term to encouraging member participation in the SENH's important programs. The success or failure of this organization is completely and directly connected to the participation of its members. Furthermore, participation of the members in local and national affairs will affect the future of this organization and our profession. We must admit that our profession is not static. Changes are happening at an increasingly rapid rate and affect all aspects of our work, from codes, to materials, to methods, and also to the laws governing the profession. There is a well known saying "the only constant is change." Change is inevitable. Some changes are steps in the right direction, however, as the article, by Barry Arnold, in the MODERN STEEL CONSTRUCTION magazine points out, *not all changes necessarily mean progress*. In many cases, the people who are responsible for the changes affecting our profession may not be practicing structural engineers, resulting in changes that could be unpalatable. We need to be involved more- we need to show up more! As the saying goes, "the world is run by those who show up." More importantly, "those who think they are too smart to join the politic are run by the ones who are not smart enough."

Here at SENH, we are very fortunate to have many enthusiastic volunteer members who seem to always show up to help. For those who are still contemplating joining their helping friends, whether you are happy or not with the changes that are happening, I am asking you to consider the rewarding prospects and the satisfaction gained through involvement. We have several committees that will benefit from your contribution of time and expertise. We would also, like to start new committees and have liaisons for several areas. We need both the experienced- to bring wisdom; and the junior engineers- to bring enthusiasm to these committees: a healthy combination of both will be the most effective. Your contribution may be to offer suggestions for future topics to the PDC committee, or to chair a committee, or even to become a board member. Whether a few hours a week, or a few hours a year consider your time and expertise an investment into this mutually rewarding endeavor. Feel free to contact me or any of the board members, or committee chairmen to discuss your interests. I look forward to hearing from you. Thank you.

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Special Points of Interest/ Reminders:

- *Joint Meeting of SENH & ASCE September 25, 2008. See inside for details.*
- *August 2008 issue of the NCSEA Newsletter "Structural Connection" has been issued and is posted on the SENH website .*

NCEES Update *Submitted By Tony Coviello, P.E.*

NCEES is proceeding with plans to replace the Structural I and Structural II exams with a single 2-day, 16-hour exam. One day dedicated to gravity loads, the other to lateral loads. For both days, the morning session will consist of multiple choice questions, similar to the Structural I exam, and the afternoon session will consist of written essays, similar to the Structural II exam. The new exam will debut in 2011 or 2012 with individual states determining their own licensing rules. It will be the rules of the individual states that will determine the acceptance process of licensed engineers applying for comity licensure in another state. Will the engineer be required to take the new exam? Or, will there be a "grandfather" clause? The latter is unlikely as states typically mandate new licensure requirements to new applicants and to those seeking reciprocity. This is further complicated in that the Structural II exam will not be available after this new exam debuts. The suggestion from NCEES staff has been to "hurry up" and take the current Structural II exam if you're concerned and would rather not take this new 16-hour exam.

One benefit of sitting for and passing the Structural II exam, or the new future 16-hour exam, is that NCEES will consider you a "Model Engineer". This allows state licensing board staff to approve your application for licensure by comity without the approval of the board. This will have great improvements on processing times as staff personnel can approve applications rapidly without waiting for the monthly board meetings. Another reason to enroll in the NCEES records program.

Authorization to Practice *Submitted By Tony Coviello, P.E.*

Do you hold licenses in states that your business does not reside? If you have performed, or plan on performing work in another state, then your business should be licensed to practice as a foreign entity. States have varying definitions for performing work. You should check with the state regulations and possibly seek the advice of an attorney before performing work for a client that is out of state or performing design work for a project in another state (regardless if you ever intend to physically enter the state). State licensing boards are beginning to withhold issuing licenses until individuals can provide copies of a Certificates of Authorization from the Secretary of State's office. Unfortunately, many engineers receive their out-of-state licenses while working for a previous employer. After changing jobs once or several times, you could be left with the stamp, but not authorized to practice. Doing so carries fines and other penalties. Most states have exclusions for self-employed DBA's. You should consult that state regulations or your attorney to ensure your business is adequately licensed for the work you perform.

Further, most states require that your business have an address in the state. This is normally resolved through a registered agent (RA) . This is a company, or legal professional, who agrees to provide you with an address in the state so that legal documents (service of process) can be served. There are several RA companies that perform this and other services for a small yearly fee. The larger RA service providers also update you on yearly filing requirements.

Engineer of the Year and Young Engineer of Year Nominations

The planning for the 2009 Engineers Week banquet has begun and the hallmark moment of that banquet is the recognition and celebration of the best engineers in NH! Each year the Engineer of the Year and Young Engineer of the Year awards are presented to engineers who have made outstanding contributions to the engineering profession, the public welfare and their community.

All engineers are eligible for nomination, provided they are members in good standing of their engineering society, are citizens of the United States, and are licensed Professional Engineers (PE) in the State of New Hampshire or Engineers in Training (EIT). Candidates for the Young Engineer of the Year Award shall be 35 years of age or younger on December 31, 2007.

Please let a member of the Board know of someone that you think warrants consideration by November 1. It is **IMPORTANT** to note that **the candidates should not be informed of their nomination.** The SENH board is prepared to assist you with the preparation of the application package. See the SENH website for more guidelines.

New Associate Members & Members

SENH is proud to welcome the following new Associate Members & Members:

Members:

- ◊ Brad Cameron, P.E., Steel Elements, Inc.
- ◊ Glenn A. Meadows, P.E., Hoyle, Tanner & Associates, Inc.

PDC Looking For Additional Members

The Professional Development Committee assists the SENH board by finding speakers and organizing our regular meetings and seminars. We have a good group of volunteers, however half the Committee is made up of bridge engineers and we typically only have one bridge topic per year. We are looking for a few volunteers with structural building experience to balance out the Committee and provide input for meeting topics. If you are interested in joining the Committee, please contact Sean James by email at sjames@hoyletanner.com.

NCSEA Membership *Submitted by Robert H. Durfee, P.E., SECB*

We have been a member of NCSEA (National Council of Structural Engineering Association) since 1996. Some of our members new to SENH may be wondering what NCSEA does for our organization and the structural engineering profession. Some of the key activities NCSEA does and will do is:

- Provide structural engineering expertise in the Code development process and pursue unified, national positions on the Building Code and other issues relevant to structural engineering. There is continued discussion about code simplification in many venues. The NCSEA Code Advisory Committees are at the forefront of code simplification and are strenuously working to resist the trend of increasing complexity of the Building Code and provide a "level playing field" for the various materials interests. Provide an identifiable resource for those needing communication with the structural engineering profession.
- Promote structural engineers and structural engineering to the public and to students looking for a rewarding and deeply satisfying career.
- Provide meaningful, practical and convenient continuing education opportunities at reasonable prices.
- Provide national support for pursuing separate structural licensing on a state-by-state basis.
- Pursue improvement in the level of competence and standard of practice of the structural engineering profession throughout the U.S.
- Establish a national Structural Engineering Emergency Response (SEER) network to link state SEER groups, as well as help promote in-state Good Samaritan laws.
- Encourage communication and interaction between member organizations, their committees, and NCSEA committees.
- Help in the revitalization of existing, and creation of new, state SEAs.
- Publish STRUCTURE, the leading monthly publication for, by, and about structural engineers and their practice.
- Provide ATC-20 and ATC-45 so that structural engineers around the nation may be trained in how to provide emergency response services in the event of natural or terror-related disasters.
- Provide NCSEA's first book, titled *Diaphragm Design in Accordance with IBC 2006 for Areas of Low, Moderate, and High Seismicity*, is expected to be on the market at the beginning of next year. The Publications Committee is working on the next book, title to be announced soon.

NCSEA Conference

The Sixteenth Annual Conference will be held on October 23-25, 2008 in Cleveland, OH. See the conference flier in this newsletter for the agenda and registration information or visit the NCSEA website at www.NCSEA.com.

NCSEA Committee Work

NCSEA Membership participation in committee work is encouraged. If you are interested in working on any of the NCSEA committees described below, please contact Bob Durfee our NCSEA Delegate. NCSEA is especially looking for members from Northern New England to sit on the General Engineering Subcommittee of Code Advisory.

Advocacy of the Structural Engineering Profession
The Advocacy Committee works to establish NCSEA as the identifiable source for the consensus position on important local and national issues, as well as establish and externally promote NCSEA as the national organization representing structural engineers. (Bob Durfee of SENH sit on this committee)

Code Advisory
The Code Advisory Committees operate as four separate subcommittees, structured to work with Model Code and Standards issues and activities, such as generating and responding to code changes, preparation and codification of resource
documents, trial design studies and practical application guidelines.

Continuing Education
The Continuing Education Committee shall be involved with the requirements for, and the standardization of, continuing educational requirements for licensing throughout the nation. This committee shall also be involved in the presentation of educational seminars, the Winter Institute.

Licensing
Through the Member Organizations, the Licensing Committee seeks to influence states, in the interest of public safety, to adopt consistent licensing laws, especially concerning separate licensing of structural engineers.

Membership
The Membership Committee strives to attract new members in all categories of membership. In addition, this committee shall seek out existing organizations eligible for NCSEA membership and work to bring such groups into NCSEA as members.

Membership Organization Development
This committee shall provide assistance to groups of individuals wishing to start a structural engineers association that will become a member organization of NCSEA.

Publications
The Publications Committee solicits and reviews articles on NCSEA news and structural engineering topics for publication in STRUCTURE, the NCSEA publication.

Order of the Engineer Ceremony *Submitted by Jason Lodge, P.E.*

On Thursday, April 17, 2008, the April meeting of the New Hampshire Section of the American Society of Civil Engineers was held in Huddleston Hall at the University of New Hampshire. Prior to the formal portion of the meeting, the Order of the Engineer Ceremony was conducted.

The Order of the Engineer was created in the 1970s by engineers in Ohio to encourage a sense of responsibility and duty in our profession. All engineers who graduate from an ABET accredited engineering curriculum or hold a Professional Engineer's license are qualified to participate in the Order of the Engineer Ceremony. Participants take an oath to uphold the integrity of our profession. A majority of the participants were students from UNH. During the ceremony, participants formally accepted the Obligation of the Engineer and received a stainless steel ring to be worn as a symbol on the fifth finger of the working hand. This ceremony is held annually by the New Hampshire Section of ASCE and is very inspiring.

The ceremony was led by Mr. Patrick Natale, P.E., F. ASCE National Executive. Mr. Natale was the keynote speaker for the formal portion of the meeting. His presentation focused on infrastructure improvement funding requirements.

Structural Licensure – Just What Are We Talking About? *By Susan Jorgensen, S.E., NCSEA Licensure Committee Chair*

Separate structural licensure – NCSEA' s Licensing Committee and SEI's Professional Activities Committee have been talking about this for a long time, but just what are we talking about? This is one of the first questions that the NCSEA Licensing Committee is trying to address. Besides the "what", the Committee also hopes to address the "why", the "how" and the "where". To do this, we are looking for the cooperation of all the Structural Engineers Associations (SEA's) and individual engineers across the country.

Do you know the difference between a "roster designation" and a "title act"? Does your state have a "practice act", and if so, is it a "full" practice act or a "partial" practice act? If you attended the NCSEA 15th Annual Conference in Philadelphia, you know that there was a great deal of discussion concerning these terms, as well as some disagreement over which ones are applicable to certain states.

In order to bring some clarity to this issue, the NCSEA Licensing Committee put together the following definitions.

Separate licensure is a provision in a jurisdiction's statutes (enacted by the legislature) or rules (established by the licensing board) that specifically recognizes structural engineering as a distinct discipline with certain special qualifications beyond, or in place of, those required for professional engineering licensure. It exists in the following forms:

1. A ***title restriction***, which only regulates the use of the title "structural engineer" or "SE".
2. A ***partial practice restriction***, which regulates the use of the title "structural engineer" or "SE" and the provision of structural engineering services for certain types of structures.
3. A ***full practice restriction***, which regulates the use of the title "structural engineer" or "SE" and the provision of structural engineering services for all structures.

Branch or ***roster designation***, on the other hand, is a provision in a jurisdiction's statutes, rules, or licensing board procedures, that does nothing more than recognize every licensee's discipline, usually based on the specific NCEES examination that each individual has passed. It does not regulate the practice of engineering.

Roster designations and title restrictions can usually be defined and controlled within the rules that govern a state licensing board. Practice restrictions, however, typically require some action by the state legislature.

NCSEA's Licensing Committee will be using the definitions above to cite specifically which type of restriction or designation we are discussing. We will work to better define the rules and statutes of each state and jurisdiction that govern the licensure and practice of engineers. To accomplish this, the Committee has already issued a survey to all of the SEA Delegates, to help determine the status of licensure in each of their states. Once these surveys have been completed and returned to the Committee, and the jurisdictions without SEA's have been contacted for this same information, the Committee will create a spreadsheet that identifies the restrictions or designations for structural engineers in each state.

This is just the first step. The NCSEA Licensing Committee will then work together with SEI's Professional Activities Committees to:

- Identify jurisdictions interested in establishing separate licensure
- Provide guidelines on how to change the licensure requirements
- Provide examples of rules and statutes used in various jurisdictions
- List compelling reasons for seeking separate licensure for structural engineers

Make knowledgeable speakers available to talk to the SEA's

The NCSEA Licensing Committee will publish articles in STRUCTURE magazine and provide pieces that address these issues, for individual state organization newsletters. The Committee is an active group of structural engineers from across the country who believe that this is an important issue for all states. View the Committee's webpage on the NCSEA website for a list of its members, as well as recent articles and reports concerning this issue. We welcome your comments, questions and suggestions.

SENH invites its members to participate along with Linda McNair-Perry, P.E., in the **University of New Hampshire 2008 Fall Internship & Career Fair on Monday, October 20th, 2008 from 12-4 PM.** The venue has changed to the **Whittemore Center arena**! This is an opportunity to promote structural engineering as a profession and SENH as an organization along with helping the students learn of internship/job opportunities that our members have to offer. If you would like to join Linda at the SENH table or have internships that you would like to advertise contact Linda at 647-8700 x 232 or lperry@sfceng.com.

SENH SEPTEMBER MEETING ANNOUNCEMENT

Joint meeting with the American Society of Civil Engineers

Bellows Falls Tunnel Clearance
Improvement Project

Date: September 25, 2008

Times & Events:
5:30 pm, Social Hour
6:30 pm, Dinner
7:00 pm, ASCE & SENH Business Meetings
7:30 pm, Bellows Falls Tunnel Presentation

Location: Common Man Restaurant, Concord NH

Cost: $40.00 ASCE/SENH members and Guests – Student Members $25.00
Note: No-shows will be invoiced for the cost of the dinner.

Meal: Roast Prime Rib, Baked Haddock, or Vegetarian.

Presenter: Ken Pidgeon, PE, ECI Rail Constructors

Synopsis: ECI Rail Constructors was the general contractor for this project to lower the tracks to allow for double-stack freight containers and auto-racks on the New England Central Railroad. The $2.5M project involved lowering the bottom of the tunnel by over two feet, while maintaining rail traffic. The construction involved track work, underpinning (soldier pile & lagging with cross braces), shotcrete work, controlled blasting, retaining wall construction, and utility relocations. This presentation will include an overview of the project with highlights of the technical issues that were encountered by the project team.

Reservations: Email preferred to jayotte@vhb.com, or by US Mail to:

Jason Ayotte, P.E.
Vanasse Hangen Brustlin, Inc.
Six Bedford Farms Drive, Suite 607
Bedford, New Hampshire 03110-6532
603-644-0888

Reservation Deadline September 19, 2008. Please indicate your meal choice.
Checks made payable to NH-ASCE.

Directions: I-93 To Exit 13, North on US Route 3 (Manchester Street) 0.3 mi on right.

Earn 1.0 Professional Development Hours (PDH) for meeting

SENH May 29, 2008 Meeting Minutes

Business Portion of the Meeting

I. BUSINESS PORTION OF MEETING:

The meeting was called to order by Linda McNair Perry, P.E, at 7:00 pm, after the social time and dinner.

1. By Laws: Steve Johnson presented and distributed to the membership the purpose of the proposed modifications to the By Laws. NH licensed engineers would need Board approval for membership instead of being automatically accepted. Retired membership status was added. A procedure for removing a board member was added. Electronic Ballots will be permitted. Budget submission dates were changed. The powers and duties of board members were clarified. A nominating committee was established. The board will have the power to appoint replacements of members unable to fulfill their term. The Business Practice Committee functions will be transferred to the Professional Development Committee. The Legislative Committee will be eliminated. The membership then voted and approved the recommended revisions to the By Laws.
2. Board Members: Kyle Roy and Tony Coviello were elected to the SENH board replacing exiting members, Linda NcNair Perry and Jim Karmozyn.
3. NHTI Library: Linda reported that thanks to the donation of the Late Louis Klotz, the number of engineering books donated to NHTI Library grew from 3 books to 36 boxes of books.
4. NCSEA: Bob Durfee reported that the grandfather provision for Structural Engineering Certification issued by the SECB ends June 1, 2008. Any one wishing to obtain certification after this date must take and pass the Structural Engineering II examination. NCSEA is looking for volunteers to distribute the NCSEA survey on the civil/structural engineering curriculum provided by local colleges. Members are encouraged to obtain and distribute this survey to their "Alma Mater".
5. Membership Changes: Three new members joined the organization; Jamie Harned, Nathan Boudreau, and Lawrence O'Brian. One student member, Miles Stetson, was upgraded to Associate status.
6. Steel Bridge Competition: SENH members Kathy Dougherty and Tony Coviello helped the program by donating their times as judges.
7. Professional Development Committee: Sean James is the new chairman of the PDC. Sean is looking for suggestions from the membership on future topics to be offered at the SENH meetings.
8. Tony introduced the speaker.

Loadbearing Masonry, Proven Structural System: *by David T. Biggs,*

Since masonry engineering is not usually included in most engineering curriculums, NCSEA is attempting to correct the deficiency with a series of "web air" seminars. The program is expected to begin in the fall.

The overall objective of this presentation is to introduce the common construction practices for Precast Plank and CMU Buildings. The specific topics to be covered are:

1. Interaction of Concrete Masonry in the system.
2. Interaction of Precast Plank in the system.
3. Discuss new computer software for designing masonry buildings.

Masonry can be used as a non structural element such as a wall veneer. As a structural unit it could be used as a bearing or shear wall. It has the additional benefit of contributing to the fire rating of the structure. The usual concept of concrete masonry systems is square buildings with flat roofs. As shown in a few pictures, current designs are much more flexible. One picture depicted a non load bearing masonry building with a gable roof and dormers.

As with any building component, what factors affects the cost of the material is of concern. In masonry, it is 1) structure type and depth, 2) wall layout and floor spans, and 3) opening layout - windows, doors, and lower floors.

There are many references available to the engineer to help with the design and cost of the masonry material.

Some recommended sources are:

1. International Masonry Institute "The Planning and Design of Load Bearing Masonry", www.imiweb.org
2. The Masonry Society "Masonry Designers Guide", www.masonrysociety.org
3. National Concrete Masonry Association TEK notes, www.ncma.org

As an illustrative example, a table from one reference was presented listings some of the properties associated with different structural systems. System description ranged from precast plank to steel beams. For each system, dead load, depth of floor, live load capacity, wall spacing and fire rating attributes were given. Precast plank can be used as "untopped" or "topped" that is with or without a poured concrete layer on top of the planks. To get diaphragm support of the building against wind loads, "topped" planks should be used. Another advantage of using precast planks is that many type of structures can be built without using scaffolding. It is important to grout keyways when using precast planks.

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Referring back to the previous table, live loading and wall spacing was re-addressed. An illustration displayed how the floor transferred the wind loads into the shear wall. The wall layout affects the lateral bracing capacity against wind loads. Where to put the bearing or shear wall depends on the local environmental factors. For low wind and seismic areas a simple cross wall scheme is adequate. In plan, the cross wall resemble perpendicular lines evenly spaced along the long axis of the building of a simple rectangular building. In high wind and seismic areas, the cross walls are reinforced with longitudinal wall running parallel to the long axis of the building. More sketches were given showing how to lay out the walls when elevators and stair wells are introduced. Cross walls schemes were give for more complex building geometry as well. Longitudinal walls schemes were also discussed. In long rectangular building cross walls were intermixed with the longitudinal walls to ensure stability of the structure. The exterior building envelope is an important component in building stability. Ideally, small windows openings uniformly spaced in row and columns offer sufficient surface area to stabilize the building from racking. Variation can be made in the size of the openings as long as vertical piers are maintained. Spandrels or curtain wall can be introduced as long as they remain in vertical strips between shear planes. The efficiency of the exterior envelope to provide lateral stability is greatly reduced when openings are irregularly spaced, interrupting the path of the shear plane to the ground.

Details regarding the two wall types, load bearing, and non load bearing masonry walls were given. An exterior load bearing wall detail showed the floor plank having 2" to 4" of bearing surface when embedded into the concrete masonry wall. The detail also showed dowels located at plank keyways bent upward in line with the CMU bearing walls reinforcing bar. Insulation, air cavity and brick veneer completed the detail. A primary advantage of concrete masonry units over poured concrete is the lack of forms needed to make the wall or to form window openings. A load bearing shell can be quickly constructed before the external veneer is needed. Using precast planks and CMU blocks, the interior is naturally clean and smooth before any finish is applied. A non load exterior bearing wall detail was shown having the same 2" to 4" bearing surface. The steel tie differed from the load bearing wall detail in that steel reinforcement was placed in hollow core at the third points along the planks length instead of the keyway at the planks ends. This detail showed a problem if the plank has a lot of camber in it. Another option was to have angle clips under the planks bolted to the wall. This detail eliminates problems associated with the camber but is harder to finish off.

Poured concrete can be mixed with CMU block to provide interesting shapes and openings. A picture of an arch opening was given as an example.

A detail of an interior load bearing wall was provided. In the example 6' long bars in the keyway of the floor planks secured with grout ran through the bearing wall. A minimum of 3 ½" bearing surface was specified. Three foot long vertical dowels, 4' on center in the bearing wall ran through the planks into the bond beam supporting the planks. Again it was mentioned that masonry details can be found at www.imiweb.org. Several slides from this site were presented showing typical masonry wall details including horizontal joint reinforcing, moisture barriers, insulation, weep holes and flashing. Further professional information can be obtained from the brick industry association (BIA), American Society of Testing Materials (ASTM), and the American Society of Civil Engineers (ASCE).

The next section, titled Hollow Core Building Systems, described the hollow core planks in more detail. The precast hollow planks are manufactured with metal strand reinforcement running parallel to their length for tensile strength. Information on the design and use of these building components can be downloaded from www.pcine.org. Some advantages of the hollow core planks are that they can be quickly manufactured and easily cut to size as the foundation and CMU walls are being erected permitting quick construction of the building. The planks are lifted by cable, dropped in place and aligned and leveled using jacks. The installation process and design details must always consider the camber of the planks. The depth of the planks ranges from 6" to 12" depending on the span requirements. The most common plank specified is 8" and has a span range of 20' to 30'. Opening for pipes and other utilities should be planned in advance. It is important to preserve the metal strands in the planks and not cut them.

A feature of hollow core planks is that they can be cantilever to form balconies. If this is done, the top coat should be tapered to allow water drainage. Because the balconies could conduct heat from the interior floor to the exterior of the building, separate framing may be preferable.

Addressing detailing and design issues, three items were covered in more depth. The first item was the camber and topping thickness (at crown). Thirty foot spans could have 1½" camber. Camber is not always the same for each plank. The minimum recommended "topping" thickness is 2" at the crowned which increases towards the ends. Doors frames should not be set until the "topping" is placed otherwise the added weight of the topping could shift the door frames. The second item covered was that when switching plank directions, the camber is a problem. The third item covered was the detailing and the connections. For bearing walls, can the connection transfer shear? Does the design provide lateral stability for the building? What happens when the slabs deflect and the ends rotate? Regarding details, some proper and improper practices were illustrated. Bar from slabs to walls should be bent up, not down. For non bearing walls, the details should allow for camber as well. Support details were also briefly covered.

Other advantages of masonry include excellent fire ratings of 2 to 4 hours of protection. The acoustic properties provide good noise attenuation. A sound transmission class (STC) rating of 50 or higher can be achieved.

The seminar ended with a review of a few software packages for masonry design.

2.0 PDHs for the technical presentation were earned by attendees.

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

Attendance List

Load Bearing Masonry—A Proven Structural System (2.0 PDH's)
The Derryfield Restaurant , Manchester, NH
May 29, 2008

Name	Organization	Name	Organization
Alex Azodi, P.E., SE	Omega Structural Engineers	Tim Hodgdon	The H. L. Turner Group, Inc.
Paul M. Becht, P.E.	The H. L. Turner Group, Inc.	Sean James, P.E., SECB	Hoyle, Tanner & Assoc., Inc.
David Biggs, P.E.		Steve W. Johnson, P.E.	NHDOT
Gerard R. Blanchette, P.E.	The H. L. Turner Group, Inc.	Tom Kilrain, P.E.	HTA/Kimball Chase
Jay H. Brown, P.E.	Structural Systems, Inc.	Dave Konieczny, P.E., SECB	Pyramid Engineering, P.C.
Robert S. Busby, P.E.	Kalwall Corporation	Dennis R. LaBombard, P.E., SECB	LaBombard Engineering, LLC
John Byatt, P.E.	CLD Consulting Engineers, Inc.	Matthew J. LaBrecque, P.E.	Pro Con, Inc.
Robert Champagne, P.E., SECB	Summit Engineering	Thomas E. Lamb	TFMoran, Inc.
Lou Cote	Steffensen Engineering Assoc., Inc.	Robin H. LeBlanc	John Turner Consulting, Inc.
Normand G. Cote, P.E., SECB	NGC Structural, LLC	Jason Lodge, P.E.	Hoyle, Tanner & Assoc., Inc.
Tony Coviello, P.E.	Summit Engineering, PLLC	Glenn Meadows	HTA/Kimball Chase
Edward F. Decelle	Structural Systems, Inc.	Jeffrey S. Nawrocki, P.E.	JSN Associates, Inc.
David Dimmick	NE Concrete Masonry Assoc.	Lawrence J. Obrien, P.E.	Gelinas Structural Engineering, LLC
Kathy J. Dougherty, P.E.		Linda McNair-Perry, P.E.	SFC Engineering Partnership, Inc.
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Stephen Richard	Steffensen Engineering Assoc., Inc.
David F. Emanuel, P.E.	Emanuel Engineering, Inc.	Richard E. Roberts, P.E.	Foley Buhl Roberts & Assoc. Inc.
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	Bill Robertson	John Turner Consulting, Inc.
George Fallet, M.S., P.E.	Consulting Engineer, Inc.	Arthur W. Rose, P.E.	Arthur W. Rose, P.E., PLLC
Jeffrey L. Garnett	MJS Engineering, P.C.	Richard A. Rouleau, P.E.	Consultant
Roger W. Gayer, P.E,	Structures Unlimited, Inc.	Kyle Roy, P.E.	TFMoran, Inc.
Dan L. Gelinas, P.E., SECB	Gelinas Strucutral Engineering, LLC	Hossein Salehkhou, P.E.	JSN Associates, Inc.
Derek J. Gilbert, P.E.	Microdesk	Paul Sbacchi, P.E.	TFMoran, Inc.
Charles "Tut" Gillen, P.E.	H.E. Bergeron Engineering	Michael J. Sievert, P.E.	MJS Engineering, P.C.
Paul Goldberg, P.E.	Pro Con, Inc.	Peter Steffensen, P.E., SECB	Steffensen Engineering Assoc., Inc.
Martin Gorham, P.E.	JSN Associates, Inc.	Miles P. Stetson	The H. L. Turner Group, Inc.
Marcus Hann, P.E.	Waldron Engineering & Construction, Inc.	Robert B. Tarquinio, P.E.	Parkview Consulting Inc.
Jaime Harned, P.E.	CLD Consulting Engineers, Inc.	Benjamin E. Tirey, P.E., SECB	Str. Eng Consultant
Robert S. Hartford, P.E.	Kalwall Corporation	Jeffrey L. Tirey, P.E., SECB	Tirey & Associates, P.C.
James R. Hawkins	TFMoran, Inc.	Jeffrey S. Trexler, P.E.	Trexler Engineering
William Hickey	The H. L. Turner Group, Inc.	Edward Weingartner, P.E.	Hoyle, Tanner & Assoc., Inc.

Additional Meetings & Conferences

October —December 2008 UNH's fall programs for Engineers, Surveyors, and Soil Scientists Contact and registration information can be found on our website at http://www.learn.unh.edu/pcw/ .

Structural Engineers' Building Conference & Expo Thursday, October 2 nd and Friday, October 3rd www.SEBuildings.com or call 1.800.466.6275

ACEC's 2008 Fall Conference October 19-22 in Montreal, Quebec. To register contact Elizabeth Tyminski at etyminski@engineers.org or call 617-305-4127

National Council of Structural Engineers Associations
Sixteenth Annual Conference
Cleveland, Ohio October 23-25, 2008Register at **www.ncsea.com**

SEAM is holding a wood design seminar on October 29th in Portland, ME. For more information contact Aaron C. Jones, P.E., SECB at aaron@structuralinteg.com

ACI Fall 2008 Convention in St. Louis, Missori. November 2-6. To register go to www.aciconvention.org

Saturday, October 25, 2008

7:00 a.m.	Breakfast sponsored by AISC
7:15 a.m.	**The Three S's – Structural Engineers Sustainability and Steel** *John Cross, P.E., AISC*
8:00 a.m.	Roll Call, MO Reports and Conference Announcements
9:00 a.m.	**Code Advisory Committee Report** *Ronald Hamburger, Chair*
9:40 a.m.	**Basic Education Update** *Craig Barnes, Chair*
10:00 a.m.	**Continuing Education Update** *Mike Tylk, Chair*
10:15 a.m.	Break
10:30 a.m.	**Ethics Committee Report** *William Bast, Chair*
10:40 a.m.	**Licensing Committee Report** *Susan Jorgenson, Chair*
10:50 a.m.	**Publications Committee Report** *Tim Mays, Co-Chair*
11:00 a.m.	**SEER Committee Report** *David Swanson, Co-Chair/Bob Paullus*
11:10 a.m.	**Treasurer's Report** *Jim Malley, Treasurer*
11:20 a.m.	**Report on the NCSEA Strategic Plan** *Ed Huston, President, NCSEA*
11:40 a.m.	**Certification Report** *Ronald Hamburger, President, SECB*
11:50 a.m.	Other Organization Reports
12:00 p.m.	Lunch – Sponsored by PCA
12:45 p.m.	**Engineering Green Buildings** *Martha Van Geem, P.E. CTL*
1:30 p.m.	**Plenary Session on NCSEA Code Advisory Committee Activities**
2:00 p.m.	Breakout Session I
2:40 p.m.	Breakout Session II
3:15 p.m.	Break
3:45 p.m.	Regroup and report back
4:30 p.m.	Adjourn
4:35 p.m.	NCSEA Board of Directors Meeting
6:00 p.m.	**Reception and Awards Banquet**

	Jim Rossberg, P.E., ASCE/SEI
2:30 p.m.	Break / Exhibitor drawings
3:00 p.m.	**Concrete Roundtable Discussion** *Tony Johnson, P.E., S.E., SOM*
4:15 p.m.	**Burj Dubai Tower – Engineering the World's Tallest Building** *Bradley Young, P.E., S.E., SOM*
7:00 p.m.	**Rock and Roll Hall of Fame and Museum**

Register at **www.ncsea.com**

What's a Conference Guest to Do?

The Ritz Carlton is located in the Tower City Shopping Center. The West 6th Street District and the Galleria shops are within walking distance. The concierge desk can arrange tours to the Science Center, Botanical Gardens, the Cleveland Museum of Art and many other interesting locations.

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