

Structural Engineers of NH

March 2006



Serving New Hampshire

Next Meeting:

Wednesday

March 15, 2006

**Recruit and Retain Star
Employees
&
Ownership Transition**

**Ya Mammas Italian
Restaurant
Merrimack, NH**

SENH PRESIDENT'S LETTER...

It's hard to believe that how much our organization has grown and how much we have accomplished within the past 12 years. We can all be proud that SENH is recognized as the authoritative voice for Structural Engineers in NH.

I believe we can still do more to fulfill our mission statement to "improve and advance the practice of structural engineering" if every member contributes a small amount of time to the organization. This contribution could be as simple as passing on a potential topic or speaker to the Professional Development Committee, providing information that you obtained at a seminar for inclusion in a newsletter, passing on upcoming seminar information for posting on the website, or suggesting ideas promoting structural engineering to a member of the Public Relations committee. Please make an effort to contribute to the organization, and if you don't know how to get in touch with appropriate person, send me an email at swjohnson@vhb.com and I will pass it on.

Legislative Update

As noted in the January newsletter, the Board has been following a number bills in the legislature including a bill adding Landscape Architects as a licensed professionals under the Joint Board of Licensure and Certification and a bill adopting the International Residential Code.

SENH worked with the Landscaped Architects, and representatives from AIA, NHSPE, ASCE, and ACEC in refining the text in for the Landscape Architect licensing legislation that was ultimately passed by the NH House. The bill will soon be coming before the NH Senate. Participating in this process has given us some insight into the challenges that lie before us if, in the future, we decide to move forward with a Structural Engineering Practice Act. In order to pass a Practice Act (separate license for Structural Engineers), we would need to develop a strong coalition with the other engineering societies in the state in addition to obtaining political support.

We also testified before the Senate Public and Municipal Affairs committee supporting the adoption of the International Residential Code. This bill has passed the Senate and will be moving to the House.

State Building Code Review Board

The State Building Code Review Board, which includes SENH member Joel Fisher, is working toward adoption of the updated 2006 International Building Code. We will keep you informed as more information is available. As you are aware, NH originally adopted the 2000 IBC, but never adopted the 2003 version when it was released. You can find out more information on the current version of the State Building Code and modifications at www.state.nh.us/safety/boardsandcommissions/bldgcode/index.html.

Dues Renewal

If you have not returned your dues renewal for this year, please take the time now to send in the renewal. Our dues help fund the programs offered by our organization.



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Member of

Meeting RSVP's

The membership meeting reservations times are set so we can provide a head count to the restaurant, usually a week before the meeting. Sometimes we have the ability to add a few people and we generally try to accommodate everyone; however, a few individuals have become habitual late responders, which requires additional effort from the secretary and the people organizing the meeting. Please remember to send your reservations in on time.

March Meeting

A business practice topic is featured for the SENH meeting on March 15th. Speakers from Zweig-White Consulting, Inc., a nationally recognized firm that deals specifically with management issues for Architecture, Engineering, and Construction firms, will discuss how to recruit and retain employees. For more information, see the announcement later in this newsletter.

June Meeting

The May meeting will feature Dr. Raymond Cook, an associate professor in Civil Engineering at the University of New Hampshire. Details of the presentation are being finalized; however, the date has been set for June 1st and the meeting will be held at the New England Center in Durham.

SENH Board of Director Nominees

The June meeting is also the General Membership Meeting. The Board of Director terms of James Karmozyn and Linda McNair Perry will expire in May. Jim has done an excellent job as Treasurer for our organization and has served as the Board liaison for a number of committees and Linda, in addition to serving as our Board secretary, helped organize last years light gage framing seminar and recently represented SENH in the discussions regarding licensing for Landscape Architects. Both Jim and Linda have indicated a willingness to continue serving the organization; therefore, the Board of Directors nominates James Karmozyn and Linda McNair Perry to refill these positions. According to Article VII, Section I, other nominations signed by three (3) or more members may also be submitted for consideration at the annual meeting. These must be received by the Board of Directors by March 31, 2006.

Other Meetings and Seminars

ASCE is sponsoring a seminar entitled "Design Steel Your Way with the 2005 AISC Specification" that is tentatively scheduled for the Manchester, NH area for April 6, 2006. For more information, go www.aisc.org and follow the Learning Opportunities link.

Donovan/Hatem LLP will present a design professional roundtable on "Architect/Engineer Professional Accountability" on March 16th from 8:00 am to 9:30 am in Boston. For more information email roundtable@donovanhatem.com.

On 25 May 2006, the 25th Anniversary New England Structural Engineers Seminar will be held at Worcester Polytechnic Institute. NCSEA President Vicki Arbitrio is expected to meet with the SEAs and also speak at the Seminar. Past President Ron Hamburger, 2006 AISC T.R. Higgins Lectureship Award recipient, will also be on the Seminar Program. For more information, email steelstuk@aol.com.

Structural Engineering Posters

The NCSEA Advocacy Committee project to place Structural Engineering Career promotional posters in high school science classes (physics, math, or chemistry) is going very well in New Hampshire. To date, SENH members have placed 40 Structural Promotional Posters in area High Schools. This is by far more than any other state member organization! We still have a few posters left. If you would like to place a poster in your town's high school, please contact Bob Durfee for information. Bob can be reached at rdurfee@hta-nh.com

Call for Authors

Structure Magazine is extending an invitation to all members of NCSEA's Member Organizations to prepare and submit articles for publication in *STRUCTURE*. Preferred lengths are 1,500 to 2,100 words for technical articles; 1,200 words for project articles; 750 words for product articles; and 800 to 1,200 words for forum (opinion) articles. For more information on the publisher's complete requirements, deadlines, and upcoming publication themes, go to <http://www.structuremag.org/forauthors.htm>.

As always, if you have any questions regarding SENH, what's planned for the future, or suggestions on how to improve our organization, please don't hesitate to contact any member of the Board of Directors.

Sincerely, Structural Engineers of New Hampshire Steve W. Johnson, P.E.



Structural Engineers of New Hampshire Meeting Attendance

DATE: January 11, 2006

PLACE: Puritan Backroom Restaurant and Function Center, Manchester, NH

RE: Grade Supported Floor Slabs
(2.0 PDH Assigned)

| NAME | ORGANIZATION | NAME | ORGANIZATION |
|----------------------------|-------------------------------------|-----------------------------|--------------------------------|
| Alex Azodi, P.E. | Omega Structural Engineers | Roger Keilig, P.E. | HTE Northeast, Inc. |
| Roderick D. Bard, P.E. | Stahlman Group, Inc. | Tom Kilrain | Kimball Chase |
| Bob Blair | | Paul Kirby, P.E. | TFMoran, Inc. |
| Jay H. Brown, P.E. | Structural Systems, Inc. | Stephen Kiss, P.E. | SAK Engineering |
| Tim Bryant | Vanasse Hangen Brustlin, Inc. | Dave Konieczny, P.E. | Pyramid Engineering, P.C. |
| Robert S. Busby, P.E. | Kalwall Corporation | Dennis R LaBombard, P.E. | LaBombard Engineering, LLC |
| Robert R. Bussiere, P.E. | Bussiere Engineering | Matthew J. LaBrecque, P.E. | PCI Architecture |
| John Byatt, P.E. | CLD, Inc. | Laurent Levesque, P.E. | J.G.E. Enterprises |
| Robert Champagne, P.E. | Kimball Chase | Jonathan M. Longchamp, P.E. | Daigle Engineers, Inc. |
| Lou Cote | Steffensen Engineering Assoc., Inc. | David A. Macolini, P.E. | JSN Associates, Inc. |
| Normand G. Cote, Jr., P.E. | NGC Structural, LLC | Nathan Maher, P.E. | JSN Associates, Inc. |
| Cheryl W. Coviello, P.E. | Appledore Marine Engineering, Inc. | Anthony P. Manzi, P.E. | |
| Tony Coviello, P.E. | JSN Associates, Inc. | Kenneth G. Marshall, P.E. | Foley & Buhl Engineering, Inc. |
| Edward F. Decelle | Structural Systems, Inc. | Donald F. Mayo, P.E. | Donald F. Mayo, P.E., Inc. |
| Kathy J. Dougherty, P.E. | --- | Raymond G. Morin, P.E. | Raymond G. Morin, P.E. |
| Khaldoun Doukmak, P.E. | JSN Associates, Inc. | Cynthia A. Mrazik | Kimball Chase |
| Robert H. Durfee, P.E. | Hoyle, Tanner & Assoc., Inc. | Cindy W. Noret | Structural Systems, Inc. |
| Robert E. Duval, P.E. | TFMoran, Inc. | Linda McNair Perry, P.E. | GV Engineering, LLC |
| Fred Emanuel, P.E. | Emanuel Engineering, Inc. | Stephen Richard | Steffensen Engineering Assoc., |
| George Fallet, M.S., P.E. | Consulting Engineer, Inc. | Richard E. Roberts, P.E. | Foley & Buhl Engineering, Inc. |
| Joel Fisher, P.E. | Fisher Engineering, P.C. | Arthur W. Rose, P.E. | Arthur W. Rose, P.E., PLLC |
| Roger W. Gayer, P.E. | Structures Unlimited, Inc. | Richard A. Rouleau, P.E. | Consultant |
| Derek J. Gilbert, P.E. | TFMoran, Inc. | Kyle Roy, P.E. | Kimball Chase |
| Paul Goldberg, P.E. | PCI Architecture | Ray Savard | LLC |
| Martin Gorham, P.E. | JSN Associates, Inc. | Tony Savard | LLC |
| Robert Gould | Emanuel Engineering, Inc. | Craig Savard | LLC |
| Timothy L. Grant, P.E. | TL Grant Engineering Consulting | Paul Sbacchi, P.E. | Kimball Chase |
| Marcus Hann, P.E. | SFC Engineering Partnership, Inc. | Timothy L. Schaal, P.E. | Schaal Engineering, P.C. |
| Michael Harris | PNA Construction Technologies, Inc. | Matthew A. Severson, P.E. | Parsons Transportation Group |
| Robert S. Hartford, P.E. | Kalwall Corporation | Peter Steffensen, P.E. | Steffensen Engineering Assoc., |
| Sean James, P.E. | Hoyle, Tanner & Assoc., Inc. | Benjamin E. Tirey, P.E. | Str. Eng Consultant |
| Steve W. Johnson, P.E. | Vanasse Hangen Brustlin, Inc. | Jeffrey L. Tirey, P.E. | Tirey & Associates, P.C. |
| James Karmozyn, P.E. | H.E. Bergeron Engineering | Jeffrey S. Trexler, P.E. | Trexler Engineering |

SENH January 11, 2006 - Meeting Minutes

I. BUSINESS PORTION OF MEETING:

1. The meeting was called to order by President Steve W. Johnson, PE, at 7:15 pm, after the social time and dinner.
2. Treasurers Report: James Karmozyn presented a brief summary of recent transactions ending with a balance of \$11,378.19.
3. NCSEA Business: Robert Durfee stated that NCSEA is soliciting articles for Structures Magazine. If anyone has a news worthy article and wishes to contribute, please contact him or one of the board members. The editors are looking for diversity. Robert mentioned that the NCSEA website is a great resource for current information. For example, if people want to know what code changes are being considered, they can find the information there.
4. The Structural Engineers Poster program was a great success. Forty volunteers placed posters in forty high schools through out NH. It was requested that if the volunteers have not done so, please email the contact information for the respective high school.
5. Continuing Education: The Steel Joist Institute will be having a seminar in Chelmsford, MA on May 23. An AISC seminar on the new steel design handbook is expected in Concord on April 6.
6. RSVP for SENH meetings are not always being accomplished in a timely manner. If an individual is interested in attending the SENH function, it is vital to respond as quickly as possible so that meals and space preparations can be made properly.
7. Technical Library: Linda McNair-Perry has been negotiating with the New Hampshire Technical Institute in Concord for the establishment of a SENH technical reference library. Once established, a list of references will be available on line. Books may be transported to a members local library if so desired.

II. TECHNICAL PRESENTATION

Jim Jaillet, ACI Certified Technician, N.E. Manager of PNA Construction Technologies. The presentation covered the placing of crack control and shear transfer products in concrete slabs on grade to limit deterioration from surface traffic and other factors. It also addressed the finishing of concrete slabs to achieve the same objective. ACI 360, Design of Slabs on Grade, and ACI 302, Construction of Slabs on Grade, have substantially changed to address the deterioration issue. Owners must consider long term cost when placing concrete on grade. Hard tires of lifts that travel across the joints chip and crack the edges of the concrete. The resulting spalls are serious maintenance problems. The pounding of equipment on the joints not only destroy the joints further, but causes wear to the equipment as well. The main cause of the joint problem is that as concrete dries, the edges of the slabs tend to curl up. As loads traverse the joint, deflection and differential movement of the two sides of the joint exacerbate the problem further. The concrete edge is further exposed to traffic impact. Products and precautions to limit the curl and help transfer shear loads across the joints were discussed. Reducing joint spacing to less than 15' square helps reduce cracking. Contrary to current practice, the temperature reinforcing metal placed at the center of the slab does not prevent maintenance problems. It was recommended to eliminate this steel at the center of the slab to save cost and improve durability. The design of the dowel must permit the transfer of shear across the joint without limiting bi-directional edge movement. The shape of the dowel should also be considered. Key joints were not recommended because of being inherently weaker. They are thinner than the slab thus easier to crack. Generally they are also unable to transfer shear until too much movement occurred at the joint, and, they are difficult to make properly in the first place.

Tony Lampasona of Lampasona Concrete Corporation brought up the subject of using concrete blanket covers designed to help wet cure the concrete more efficiently than plastic. The blankets should not be re-used except for large projects. To prevent excess curling, keep the strength of the concrete low and use higher water to cement ratios.

For further information regarding this subject, information and articles can be found at the PNA website, <http://www.pna-inc.com/home/>.

2.0 PDHs for the technical presentation were earned by attendees.

Respectfully submitted by Robert S. Busby, P.E., acting on behalf of Linda McNair-Perry, Secretary, SENH

MARCH MEETING ANNOUNCEMENT

NEXT MEETING: Wednesday March 15, 2006

PRESENTATION: **“Recruit and Retain Star Employees”** Lisa Oakes-Coyne, Zweig-White Consulting, Inc.
“Ownership Transition” David Rabinovitz, Zweig-White Consulting, Inc.

PLACE: **Ya Mammias Italian Restaurant**, 75 Daniel Webster Highway,
Merrimack, NH. (Just North of Nashua).
Phone 578-9201

DIRECTIONS: From the North: Everett Turnpike to Exit 10 in Merrimack, “Industrial Drive”, East 1 mile to Route 3, South on Route 3 to restaurant.

From the South: Everett Turnpike to Exit 7, Henri Bourque Highway (Route 3 North - straight across at the light at the end of the Exit) to Daniel Webster Highway, left onto DW Highway, continuing North on Route 3, to restaurant.

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: Italian Buffet; Chicken Parm, Ziti Alfredo, Chicken Bianco

COST: Member: \$35.00 Non-Member: \$40.00 Full Time Student: \$30.00

RSVP: by 1:00 pm Friday, March 10, 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



**STRUCTURAL ENGINEERS
OF NEW HAMPSHIRE**

P.O. Box 226
Manchester, NH 03105-0226

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