

Structural Engineers of NH January 2003 Newsletter



Serving New Hampshire



SENH PRESIDENT'S LETTER...

Next Meeting:

Thursday

January 16, 2003

JOINT MEETING OF SENH & ASCE-NH

The Ascutney Mountain
Resort
Brownsville, VT

Seasons Greetings SENH Members! With the holiday season upon us, most of us will be scurrying to find our last minute gift or to grab the last cup of eggnog. With all the hustle and bustle that comes with the season, make sure you take the time to enjoy the moments with family and friends. Have a safe and happy holiday, and look forward to a new year full of opportunities.

Committee Chair Vacancy

Did someone say opportunities? SENH is looking for a motivated individual to lead the Business Practice Committee and assist the Board of Directors with future meeting planning. The committee is responsible for organizing meetings for SENH related to the business aspects of our profession, such as: contracts, liability, standard of care, etc. If interested please email mlow@htanh.com.

Electronic Delivery of Newsletters

The response to the electronic delivery of our last newsletter was very positive. On your dues renewal notice enclosed in this newsletter, be sure to let us know how you would like your newsletter delivered. Electronic transfer of the newsletter will reduce administrative time and costs.

Dues Renewal

Please forward your completed Dues Renewal Form to SENH as soon as possible. The information contained on the form allows us to update our database and stay in contact with all members. Thank you for your anticipated cooperation.



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Member of

Upcoming Meetings

SENH's upcoming meetings are as follows:

January 16, 2003—Tour of Eastern Bridge/Bridge Aesthetics/HPS

March 2003—Business Practice Topic

May 2003—Annual Meeting—Timber Truss Bracing

New Members

SENH would like to welcome one (1) new member to the organization. He is:

Anthony Manzi, P.E., Member

Best wishes for a Happy Holiday Season! Hopefully you've been good this year and Santa will bring to that bright new shiny slide-rule.

See you in January!!!

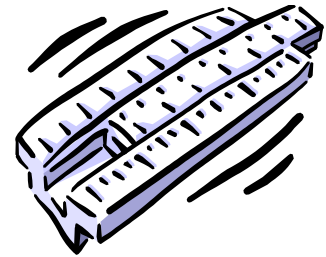
Sincerely

Structural Engineers of New Hampshire

Matthew J. Low, P.E.

Matthew J. Low, P.E.

President





Structural Engineers of New Hampshire Meeting Attendance

DATE: November 14, 2002

PLACE: Red Hook Brewery, Portsmouth, NH

RE: Designing Ready Mixed Concrete Mixes
(2.0 PDH Assigned)

NAME	ORGANIZATION	NAME	ORGANIZATION
Dana Michael Adams, P.E.	Opechee Construction Corp.	David A. Macolini, P.E.	JSN Associates, Inc.
Matthew Allen, P.E.	JSN Associates, Inc.	Robert D. Madore	WR Grace & Co.
Josiah, H. Bartlett	Wood Structures Inc.	Nathan Mayer	JSN Associates, Inc.
Paul M. Becht, P.E.	H. L. Turner Group	Bruce Mailman	Coleman Concrete
Brian Berry	Dragon Cement	Rich Martin	
Jason Blais, P.E.	Opechee Construction Corp.	Donald F. Mayo, P.E.	Donald F. Mayo, P.E., Inc.
Howie Burns	Lafarge	Daniel W. McCarthy	Consultant
Robert S. Busby, P.E.	Kalwall Corporation	Robert Meyers	NE Concrete
Stephen J. Casper, P.E.	Nortstar Industries	Edward Miller	
Robert Champagne	Kimball Chase	Raymond G. Morin, P.E.	Consultant
Carlton Cooper	AH Harris and Sons	Michael Mozer	TVGA Engineering
Normand G. Cote, Jr., P.E.	NGC Structural, LLC	Cynthia A. Mrazik	Kimball Chase
Tony Coviello	Kimball Chase	Jeffrey S. Nawrocki, P.E.	JSN Associates, Inc.
Cheryl W. Coviello	Vanasse Hangen Brustlin, Inc.	Andy Rice	LM Scofield
Ray S. Cowan, P.E.	SFC Engineering Partnership, Inc.	Larry Rolwes	Parsons Transportation Group
Dominic Denuzio	AH Harris and Sons	Arthur W. Rose, P.E.	Kimball Chase
Khaldoun Doukmak	JSN Associates, Inc.	Richard A. Rouleau, P.E.	Consultant
Dale A. Dubois, P.E.	Dubois Engineering Assoc., Inc.	Kyle Roy, P.E.	Kimball Chase
Fred Emanuel, P.E.	Emanuel Engineering, Inc.	William Saffian	
Jason L. Gallant, P.E.	Parsons Transportation Group	Hossein Salehkhrou, P.E.	JSN Associates, Inc.
Roger W. Gayer, P.E.	Structures Unlimited, Inc.	Jim Samatto	
Robert Gilman	Persons Concrete	Matthew A. Severson, P.E.	Parsons Transportation Group
Carl L. Goldknopf, P.E.	Vine Associates, Inc.	Femm Singer	Lafarge
Martin Gorham, P.E.	JSN Associates, Inc.	William Supino, P.E.	Kimball Chase
Timothy L. Grant, P.E.	TL Grant Engineering Consulting	Veronica E. Thibodeau	Weston & Sampson Engineers
Robert S. Hartford, P.E.	Kalwall Corporation	Benjamin E. Tirey, P.E.	Str. Eng Consultant
Bob Hensen		Jeffrey L. Tirey, P.E.	Tirey & Associates, P.C.
William Hickey	H. L. Turner Group	Gerry Todd	Aggregate Industries
Thomas T. Kendrick, P.E.	Parsons Transportation Group	Bruce Trimoll	
Paul Kirby, P.E.	Wright-Pierce Engineers	John Turner	Turner Testing, Inc.
Dave Konieczny, P.E.	Pyramid Engineering, P.C.	Edward Weingartner, P.E.	McFarland-Johnson, Inc.
Dennis R. LaBombard, P.E.	LaBombard Engineering, LLC	Andrew D. White	Tirey & Associates, P.C.
Steve Long, P.E.	Opechee Construction Corp.	Richard Wolf, Jr	H. L. Turner Group
Fred Lunington	AH Harris and Sons	Phil Wright	

SENH November 14th Meeting Minutes

I. BUSINESS MEETING: The meeting began at 7:05 pm, after the social time and dinner, and ended at 7:25 pm.

1. Dave Konieczny thanked NNECPA vendors for their generosity in providing an open bar.
2. Dave gave a treasurer's report, giving an account balance of \$3,125. Dues renewal for SENH membership in 2003 will remain the same as for 2002. Dues renewal notices will be sent out in December.
3. Dave announced that the 2002 NCSEA Annual Conference Report will be posted on the SENH website.
4. Dave announced the January 16, 2003 SENH joint meeting with NHASCE to be held in the Claremont area preceded by a tour of the Eastern Bridge Steel fabrication plant in Claremont. Dave announced that the March SENH meeting will be a Business Practice topic meeting with a panel discussion presentation about Special Inspections and that NH Code Administrative Officials will be invited. The May meeting will have a presentation by Josh Bartlett about bracing of pre-engineered wood trusses.
5. Dave described an Amicus Brief by NHAIA concerning RSA 508:4 that has been supported by SENH. In the case, the plaintiff's attorney has responded to the Brief. SENH is waiting for the NH Supreme Court proceeding.
6. Jeff Tirey gave a Snow Load Mapping Committee update. The Committee has been inactive. Ray Cowan has been appointed to the Structural Engineer position on the State Building Code Review Board and has invited the Committee to present the Snow Load Mapping Report results for adoption into the State Building Code.
7. Norm Cote, Chairman of the QBS Coalition, reported on that organizations activities. The Coalition recommends reducing the practice of bidding design services. NHQBS has a website, nhqbs.org, which is available now and is receiving a lot of use.
8. Art Rose described the OEM activities relative to SENH. He is working with Dr. Klotz, a UNH seismic design expert and member of NHOEM. Art described the 1996 NHOEM program for training and certifying Structural Engineers as emergency response volunteers. NHOEM wants to create a response team organization for emergencies and disasters. Structural Engineers are needed for structural evaluation of damaged buildings. The umbrella group for Structural Engineer volunteers could be ACEC or SENH. A Committee has been formed which will have representatives from SENH, ASCE, NHSPE and NHDOT and which will be concerned with bridges, buildings and dams. Structural Engineers will be certified as Reservists. There will be an evaluation of emergency shelters and of the adequacy of emergency services buildings. This evaluation will lead to mitigation planning. Courses for training structural engineers may start this winter. Tom French, SENH OEM Committee Chairman, will be working with Art Rose.
9. Dave Konieczny announced new members: Tom Callery, P.E., TF Moran; Paul Kirby, P.E., Wright-Pierce Engineers; Jeffrey Klein, E.I.T., Vanesse Hangen Brustlin and Cynthia Mrazik, E.I.T., Kimball Chase.
10. Dave announced that new Committee Chairmen are needed for the Business Practice Legislative Committees. Art Rose volunteered to Chair the Legislative Committee. Volunteers, please contact any Board member.
11. Dave asked for membership feedback on emailing the newsletter.

II. TECHNICAL PRESENTATION

Bob Myers, Executive Director, NNECPA, gave a presentation on concrete mix design. He started by thanking vendors who set up booths for the meeting, WR Grace, Harris and Dragon Cement. Bob described ACI 211 as the guide for concrete mix design by proportioning, a simple concept. He described the goal of creating a moldable, workable and economical mix with suitable performance characteristics. The parameters for design include definition of the application, placement method, strength and service environment and loading. Bob described laser screed methods and soft-cut saws, a new technology. He described the method for superflat floors with 200 yard per hour placement and laser screed.

Cold weather and hot weather concreting criteria were reviewed. Concrete must cure to 500 psi before the first freeze and to 3500 psi to withstand freeze/thaw cycling. Bob summarized QC/QA processes on public works projects, slip forming, architectural concrete, fiber additives, lightweight concrete and finishing. He then gave an in depth review of the methodology of proportioning mixes. The method is based on test data and experience and accounts for the ingredients of air, cement, coarse and fine aggregates and water. Strength is a function of the water/cement ratio and of optimizing the aggregate ratio. The specific gravity of components must be determined and is utilized in the absolute volume method. Aggregate size is usually the largest economically available to fit the dimensions of the structure and is usually three quarter inch or less. Environmental exposure category determines air entrainment.

Bob reviewed admixtures. Water reducers make concrete more durable and more economical. Mid-range water reducers, referenced within ASTM C494, are the most common admixture and serve to increase strength. High range water reducers are superplasticizers. Bob described the determination of concrete characteristics based on slump, aggregate size, water/cement ratio, reducers. The moisture content of aggregates is crucial and is usually two percent for stone. Water input is adjusted for aggregate absorptivity. Trial batching and testing confirms concrete strength and is the process for verification of the mix design.

Meeting adjourned at 8:45 pm.

Minutes Approved: 12/10/02 Respectfully submitted, Benjamin E. Tirey, P.E., Secretary, SENH

JANUARY MEETING ANNOUNCEMENT**JOINT MEETING OF SENH & ASCE-NH**

NEXT MEETING: Thursday, January 16, 2003

TOUR: **Tour of Eastern Bridge Steel Fabrication Plant in Claremont, NH (603) 542-8404**
Attendees will tour the plant from 2 pm - 4 pm. No hardhats are required for the tour. The tour is free of charge and optional.

Directions to Eastern Bridge

Follow I-93 North to I-89 North in Concord. Take Exit 12 off I-89 North. At the end of the ramp, turn left onto Rtes 11 and 103. Follow these routes through George's Mills, Sunapee and Newport, into Claremont. Once in Claremont you will be on Washington Street. Go through 5 sets of lights. At the 6th set (Rite Aid will be on your left) you will need to be in the left lane. Go straight up the hill. Where the road splits (Broad Street Circle, Fire Dept on your left) you must turn right, then immediately turn left.

You are now on Broad Street. Follow Broad Street to the end, facing the Claremont Middle School, turn right. Go to the end of this road, and turn left onto Pleasant Street. Follow Pleasant Street until the first set of lights. Turn left onto Charlestown Road (also Rtes 11 and 103).

Once you see a Subaru Dealership on your right, you will be approximately ½ mile from Grissom lane. After you pass Industrial Engravers (on the right) take your next right onto Grissom Lane. At the end of Grissom Lane, take a right onto River Road.

The Eastern Bridge Fabrication Plant is the first building on the right. Take the second driveway into the office parking lot. The entrance is the only set of doors on the front of the building.

DINNER MEETING: Mr. Bill McEleney, National Steel Bridge Alliance (NSBA), will present "Basic Guidelines for Aesthetic Bridges". The visual appeal of a bridge is founded on its basic shape and proportions. This program provides an introduction to those parameters that are within the engineer's scope that affect the aesthetic impact of the completed structure.

Mr. Emile Troup, P.E., Structural Steel Fabricators of New England (SSFNE), will make a brief presentation to update attendees on the recent developments of High Performance Steel (HPS).

PLACE: The Ascutney Mountain Resort, Brownsville, VT (802) 484-7711 – Please visit www.ascutney.com for directions to the dinner meeting or for rates on "Ski and Stay" packages

AGENDA: 4:30 Social Hour
6:00 Dinner
7:00 Business Meeting
7:15 Presentation and Discussion
8:15 Adjourn

DINNER: Buffet choices: Spinach Salad, grilled vegetables, broccoli, rice, potatoes, chicken marsala, shrimp and scallops alfredo, prime rib, ice cream sunday, coffee

COST: \$35.00 for all dinner meeting attendees

RSVP: **December 27, 2002** – No guarantees after this date
Please send check payable to "**Structural Engineers of New Hampshire**" with list of attendees. *Please indicate if the plant tour will be attended.*

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

NOTE: 2.0 PDH's have been assigned for attendance of the Steel Fabrication Plant Tour. 1.5 PDH's have been assigned for the attendance of the dinner meeting/ presentation. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the plant tour and/or dinner meeting