



STRUCTURAL ENGINEERS OF NEW HAMPSHIRE

Granite Columns



President's Letter



Welcome back! I hope everyone enjoyed the fantastic weather we had this summer. I would like to thank Sean James for his service and leadership as the SENH president over the last few years, I hope to continue in his footsteps. There have been some additional changes to the Board of Directors (BOD) as well as the Professional Development Committee (PDC) over the summer. Tony Coviello has again taken over the reins as the Chairmen of the PDC (thanks Tony!). The BOD now consists of:

President

Josh Lund, PE, SECB

Vice-President

Adam Stockin, PE

Treasurer

Bob Champagne, PE, SECB

Secretary

Norm Cote, PE, SECB

Director-at-Large

Sean James, PE

In June we hosted a week-long bridge inspection course in conjunction with the NHDOT. The course was the NHI/FHWA Fracture Critical Inspection Techniques for Steel Bridges and was held at the NHDOT in Concord. The course was very successful and we were able to accommodate all interested SENH members, 13 NHDOT employees, and several Consultants from across the U.S. (including one person from Hawaii!).

We will be forming a Code Advisory Committee to represent SENH. This committee will be chaired by Peter Griem with support from long-time volunteers Alex Azodi and Linda McNair-Perry. They will be looking for additional volunteers.....

I look forward to serving the membership in the upcoming year. If you have any questions or comments please feel free to contact me at (603) 225-2978 or President@senh.org.

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**Special Points of Interest/
Reminders:**

- *The September Meeting is a joint ASCE & SENH meeting. See inside for details.*

2009 Existing International Building Code *Submitted by Linda McNair-Perry, P.E., SECB*

With the passage of HB-137 this spring, that was made official by the Governor's signature on June 18th, the 2009 International Existing Building Code (2009 IEBC) has been added to the list of codes included in the New Hampshire State Building Code. The NH Building Code Review Board (NHBCRB) has created a subcommittee to review the IEBC and recommend amendments that might be needed for effective enforcement of the code. They will also be considering the 'Existing Building' portions of the 2009 International Building Code (2009 IBC) which is found in Chapter 34. As such it is anticipated that some amendments to the 2009 IBC will also be needed to make the two documents work in harmony.

The 2009 IEBC Subcommittee is just getting underway. They have become aware that the majority of the Massachusetts amendments to the 2009 IEBC are structural in nature and are asking for our input. Have you used the Massachusetts amended 2009 IEBC? Do you have any opinions as to whether their amendments should be considered by NH? The 2009 IEBC Subcommittee is also looking for SENH member input on whether IEBC Appendices A1 thru A5 should be adopted as part of the code. You may contact Linda K. McNair-Perry, NHBCRB Vice Chair, at lperry@sfceng.com or call 603-647-8700 with your thoughts on this topic. If you are interested in code issues as a whole, please consider joining the new SENH Code Advisory Committee discussed below.

Code Advisory Committee *Submitted by Peter Griem, P.E.*

SENH is now forming a Code Advisory Committee to review and propose local, regional, and national building code modifications. The committee's first task will be to review the 2009 IEBC, which is planned for adoption by the NH State Building Code Review Board to regulate the design of existing buildings. The review will be focused on State practice issues that may be affected by the implementation of the national model code. In the future, the committee will aim to connect with other regional CAC's (VT, ME, MA, CT, RI, NY) and seek additional representation on the national NCSEA CAC's.

Volunteering for the committee is an invaluable opportunity to learn and remain current on both local and national code changes, and the reasons behind them. It gives you a voice in the code development process that you need to abide by in practice. And it's an opportunity to give back to the profession of Structural Engineering.

If you are interested in volunteering for the committee, or would like additional information, please contact Peter Griem at pgriem@hoyletanner.com, or Josh Lund at jlund@mjinc.com.

ASCE & SENH JOINT SEPTEMBER MEETING ANNOUNCEMENT

- NEXT MEETING:** Tuesday, September 25, 2012
- PRESENTATION:** **Geotechnical Case Histories** by, *Mike Walker of GEI Consultants, Inc.* Review the observational approach to large excavation design in the form of three case histories: The CO9A4 Tunnel Jacking project for the CA/T, with several interesting one-of-a-kind applications. The US Capitol Visitors Center, constructed adjacent to the existing US Capitol Building. The City Creek Center in Salt Lake City, Utah bills itself as “one of the largest mixed-use downtown redevelopment projects”. A description of challenges, threats to project shut down, and teamwork in solving problems and keeping the jobs on track. All three are interesting projects with lots of good photos.
- SPEAKER:** Mike Walker, PE – Principal and GeoStructural practice leader at GEI specializing in soil structure interaction applied to a variety of project types.
- PLACE:** The Puritan Event and Conference Center
245 Hooksett Rd.
Manchester, NH 03104
(603) 666-9893
- DIRECTIONS:** Take I-93 to Exit 9S, approximately 1 mile South on Hooksett Rd. (Daniel Webster Highway.)
- AGENDA:** 5:30 pm-6:30 pm Registration/Social Hour
6:30 pm-7:15 pm Dinner
7:15 pm-7.45 pm Business Meeting
7:45 pm-9:00 pm Presentation
- DINNER:** Buffet with choice of Chicken Tenders, Teriyaki Steak Tips, and Vegetable Lasagna with sides of Green Beans Almondine and Rice Pilaf.
- COST:** ASCE/SENH Member: \$45.00 Non-Member: \$55.00 Full Time Student: \$15.00 - ‘no-shows’ will be billed at full amount.
- RSVP:** by Wednesday, September 19, 2012. There will be a \$5.00 late fee for anyone wishing to RSVP past this date.

Please send check payable to “ASCE NH” with list of attendees to:

Hoyle, Tanner & Associates, Inc.
Attn. Fran Weaver
150 Dow Street
Manchester, NH 03101
fweaver@hoyletanner.com

- 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.

May Meeting Attendance List & Meeting Minutes

The Specification, Design, Manufacture and Installation of Cold-Formed Steel Trusses Manchester, New Hampshire (2.0 PDH's) May 8, 2012

Name	Organization	Name	Organization
Dana Michael Adams, P.E.	De Niro Construction	Sean James, P.E.	Hoyle, Tanner & Assoc., Inc.
Alex Azodi, P.E., SECB	Omega Structural Engineers	Dennis R. LaBombard, P.E., SECB	LaBombard Engineering, LLC
Daniel Bard	Summit Engineering, PLLC	Thomas E. Lamb, P.E.	TFMoran, Inc.
Shannon Beaumont	CLD Consulting Engineers, Inc.	Thomas Levins, P.E.	The Louis Berger Group, Inc.
Paul M. Becht, P.E.	The H. L. Turner Group, Inc.	Jonathan M. Longchamp, P.E., SECB	Daigle Engineers, Inc.
Jason Blais, P.E.	Opechee Construction Corp.	Kenneth G. Marshall, P.E.	Foley Buhl Roberts & Associates, Inc.
Michael A. Brassard	Dubois and King	Eric Ohanian	University of New Hampshire
Jay H. Brown, P.E.	Structural Systems, Inc.	Linda McNair-Perry, P.E., SECB	SFC Engineering Partnership, Inc.
Robert S. Busby, P.E.	Kalwall Corporation	Douglas Phelps	Northeast & Mid-Atlantic Sales & Marketing
Robert Champagne, P.E., SECB, LEED	Summit Engineering, PLLC	John T. Poisson, E.I.T.	McFarland-Johnson, Inc.
Alice Chao, E.I.T.	Hoyle, Tanner & Assoc., Inc.	Josh Reilly	Structural Systems, Inc.
Lou Cote	Steffensen Engineering Assoc., Inc.	Stephen Richard	Steffensen Engineering Assoc., Inc.
Normand G. Cote, P.E., SECB	NGC Structural, LLC	Joe Ripley, E.I.T.	Hoyle, Tanner & Assoc., Inc.
Tony Coviello, P.E.	Summit Engineering, PLLC	Richard A. Rouleau, P.E.	Consultant
Edward F. Decelle	Structural Systems, Inc.	Kyle Roy, P.E., SECB	Tower Hill Engineering, PLLC
Tom DiBlasi	NCSEA President	Paul Sbacchi, P.E.	TFMoran, Inc.
Jon M. Downing, E.I.T.	TFMoran, Inc.	Scott Shillieto	University of New Hampshire
Robert H. Durfee, P.E., SECB	Dubois & King, Inc.	Peter Steffensen, P.E., SECB	Steffensen Engineering Assoc., Inc.
Cris-Hawk Farrin	Summit Engineering, PLLC	Miles P. Stetson, E.I.T.	The H. L. Turner Group, Inc.
Jaime French, P.E.	CLD Consulting Engineers, Inc.	Adam M. Stockin, P.E.	Parsons Brinckerhoff
Roger W. Gayer, P.E.	Structures Unlimited, Inc.	Benjamin E. Tirey, P.E., SECB	Str. Eng Consultant
Timothy L. Grant, P.E.		Jeffrey L. Tirey, P.E., SECB	Tirey & Associates, P.C.
Robert S. Hartford, P.E.	Kalwall Corporation	Matthew S. Weber	University of New Hampshire
William Hickey	The H. L. Turner Group		

Business Portion of the Meeting

1. SENH President Sean James, PE opened the membership meeting.
 2. Treasurer's report was given by Kyle Roy, PE.
 3. President Sean James conducted the annual election for board of directors. Current board members Kyle Roy and Tony Coviello are stepping down, and the Board thanks them for their years of service. Adam Stockin, PE and Bob Champagne PE were unanimously voted in as new board members.
 4. The PDC chair position vacated by Adam Stockin, PE will be filled by Tony Coviello, PE.
 5. Tom DiBlasi, PE, NCSEA President spoke about structural issues on the national level including emergency response training, code advisory committee work, and structural licensing. Alex Azodi and Bob Durfee are actively involved with the NCSEA and they urge others to get involved as well.
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Presentation

The Specification, Design, Manufacture, and Installation of Cold-Formed Steel Trusses - Presented by Douglas Phelps, Aegis Metal Framing, LLC

Douglas Phelps is the Northeast & Mid-Atlantic Sales & Marketing Representative for Aegis Metal Framing, LLC. Doug is currently responsible for a sales region of 15 states marketing steel products to architects, engineers, general contractors and subcontractors. In addition to serving as the primary liaison between licensed fabricators and the customer, he provides seminars and technical presentations about cold-formed steel roof trusses to educate designers on the features and benefits of the product. Doug presented us with a comprehensive summary of the various services that Aegis provides to the project team throughout the design and construction process.

2.0 PDH's for the technical presentation was earned by attendees.

Respectfully submitted,
Norm Cote, PE, Secretary

UNH NEWS OF THE (NOT SO DISTANT) PAST, PRESENT AND (VERY NEAR) FUTURE

Submitted by Linda McNair-Perry, P.E., SECB

UNH STEEL BRIDGE TEAM

Based on their earlier performance at Regionals, the UNH team qualified to compete in the 2012 National Student Steel Bridge Competition (NSSBC). Fortunately, this year Nationals did not fall on the same day as UNH's graduation. Anabelle Allen, Senior and ASCE Student President, reported that the "competition was pretty fierce". You can check out the [results and photo slide show](#) from the 2012 NSSBC, which took place in May at Clemson University. [Sorry no photos here, but you can see the smiling faces of the UNH team in the slideshow photo number 7. I also spotted a brief few seconds of a UNH T-shirt and the UNH bridge in the video too.]

As usual, with regards to the rule enforcement, the national judges were meticulous. Or was it merciless? It probably depends on who you ask. This year the UNH team had one of the tabs on the bottom side of the chord 1/16 inch too low. Anabelle reported that they got charged with a time penalty of one minute and had 100 pounds added due to weight penalties, without which they would have placed fourth or fifth. Even with the knowledge that there was room for improvement, they were still very pleased with their overall 17th place finish....and they should be.

Ms. Allen stated that the students and faculty all "had a wonderful experience and all the underclassman left the competition with a tremendous amount of enthusiasm." I am sure they are already pouring over the [2013 NSSBC rules](#) that are now available. The students will be checking out the newest configuration and/or restrictions that they will need to incorporate into their new bridge design. I took a peak at the updated rules and noted one significant change that will now penalize interlocking connections, such as typical dove-tails, tees, and those that lock by twisting. This will send many teams across the nation back to their drawings boards. Well, no one uses drawing board these days, but you know what I mean.

2012 FALL UNH CAREER & INTERNSHIP FAIR

As you read this I am sure you are still in summer mode, but it is time to plan for the 2012 FALL UNH CAREER & INTERNSHIP FAIR which will be held in the MUB from Noon to 4 on Thursday, October 25, 2012. You are welcome to join Linda K. McNair-Perry, UNH Liaison for SENH, at this event. Carpooling is suggested, because of the limited parking on campus. Please contact Linda at lperry@sfceng.com if you wish to attend or if you have any information on open positions (entry level or internships) with your firm that you would like presented to enthusiastic students.

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Fred Emanuel, P.E.
President



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Employment Opportunities

H.E. Bergeron Engineers, Inc. (603) 356-8836 (phone)
PO Box 440, 2605 White Mountain Hwy North Conway, NH 03860-0440 (603) 356-7715 (fax)
www.hebengineers.com

Current Opening:
SENIOR STRUCTURAL ENGINEER

HEB Engineers is currently seeking a highly motivated professional to join our award-winning team as a senior structural engineer. Located in the White Mountains, HEB offers civil and structural engineering and land surveying services to a diverse clientele. Named 'Coolest Small Company for Young Professionals' in 2011, HEB offers employee-ownership and fulfilling work opportunities in our growing firm.



Experience: 7 – 12 years of experience in bridge and structural engineering.
Education: BSCE w/ structural concentration required; MSCE preferred.
Licensure: PE required; NH PE preferred or ability to obtain within 3 months.
Software: Proficiency with Microsoft Office; advanced knowledge of structural software and AutoCAD required; MicroStation experience is a plus.

Requirements:

- Ability to work on multiple projects simultaneously; direct the work of multi-discipline teams; and interact effectively with team members, clients, and the public.
- Perform complex design calculations and coordinate the completion of reports, plans, estimates, and specifications for bridge and other structural projects.
- Experience with steel, reinforced concrete, timber and prestressed concrete design and construction engineering required.
- Previous experience with NHDOT is preferred.
- Active participation in professional organization(s) is preferred.

Please send letter of interest and resume to: Business Manager, HEB Engineers, PO Box 440, North Conway, NH 03860 or via email to elajole@hebengineers.com. For more information about HEB, visit www.hebengineers.com.

NCSEA Annual Conference and ICC-ES Committee Meeting

at the Hilton Frontenac

St. Louis, MO

October 1-6, 2012



Monday – Tuesday, October 1-2

ICC-ES Committee Meetings:

- Environmental Committee on Monday.
- Evaluation Committee on Tuesday.
- NCSEA Board Meeting on Tuesday afternoon.

Wednesday, October 3

Concurrent Sessions

Committee Meetings

- 8:00 – 12:00 NCSEA Board
- 8:00 – 12:00 CAC General Engineering
- 9:00 – 1:00 SECB Board
- 11:00 – 1:00 SEAKM Licensing
- 1:00 – 5:00 Advocacy
- 1:00 – 5:00 Basic Education
- 1:00 – 5:00 Structural Engineering Licensing Coalition (SELC)
- 1:00 – 4:00 CAC Wind Engineering
- 11:30 – 1:30 **AZZ Plant Tour – Includes Lunch**

Vendor

Presentations

Software

Non-Software

- | | | |
|-------------|--------------------|--------------------------|
| 1:40 – 2:10 | Bentley Systems | AZZ Galvanizing Services |
| 2:20 – 2:50 | Fabreeka Internat. | Fyfe Co. Inc. |
| 3:20 – 3:50 | CSC World | Vector Corrosion Tech. |
| 4:00 – 4:30 | STRAND7 Pty Ltd | SidePlate Systems |
| 4:40 – 5:10 | RISA Tech. | Hayward Baker |
- 5:30 – 6:30 **Kaplan/NCSEA SE Exam Review Course Social Hour**
6:30 – 8:30 **SECB Reception**

Thursday, October 4

The Spirit of St. Louis... Design Trends for the Future

8:00 – 8:15 a.m.



Ronald Hamburger, S.E., SECB, NCSEA Code Advisory Committee (CAC) Chair and Senior Principal at Simpson Gumpertz & Heger in San Francisco, California, will provide an overview of 2012 Codes and Standards.

8:15 – 8:45 a.m. – *Where ASCE 7 Wind Provisions Might Go in 2016*



Don Scott, S.E., CAC Wind Subcommittee Chair and Director of Engineering for PCS Structural Solutions, will summarize the results of last year's NCSEA membership survey of wind design practices, provide an update on the present ASCE 7 Wind Design Provisions, and speculate on the future direction of these provisions.

8:45 – 9:15 a.m. – *Seismic Anchorage and Appendix D*



Kevin Moore, P.E., S.E., SECB, CAC Seismic Subcommittee Chair and President, Principal and co-founder of Certus Consulting, Inc. in Oakland, California, will provide an update on changes to ACI 318 Appendix D for anchorage to concrete, focusing on the implications to seismic applications.

9:15 – 9:45 a.m. – *Strength Design of Masonry*



Ed Huston, S.E., CAC General Subcommittee Chair and Principal, Smith & Huston, Inc., Consulting engineers, in Seattle, Washington, will provide an update on the new code provisions on Strength Design of Masonry and how they will impact design practice.

9:45 – 10:15 a.m. – *ICC-ES Collaboration, Process, and Effect on Structural Engineers*



Bill Warren, S.E., SECB, CAC Evaluation Services Subcommittee Chair and Principal with SESOL, Inc., in Newport Beach, California, and **Jim Collins, Ph.D., P.E.**, Director of Engineering for ICC Evaluation Service, LLC, in Whittier, CA, will provide a description of how the ICC Evaluation Services (ICC-ES) program works, the effect this program has on Structural Engineering practice, and an ongoing program of collaboration between ICC-ES and NCSEA.

11:00 – 12:00 noon – *Structural Engineering Practice – Instilling “A Culture of Discipline”*

Keynote Speaker: Lawrence Griffis, P.E.

The practice of structuring engineering today involves working on projects with tight budgets, fast-track schedules and dwindling material resources. To achieve success, engineers must learn and practice a certain *culture of discipline*.



Lawrence Griffis, P.E., is a Senior Principal and President of the Structures Division of Walter P Moore and Associates, Inc. He serves on the code committees for both AISC and ACI and also as an on-going member of the ASCE 7 Standards Committee.

1:00 – 2:00 p.m. – *Snow Load Provisions in ASCE 7-10*

This seminar will provide practicing structural engineers with an understanding of the new snow load provisions and will cover all 12 sections of ASCE 7-10.



Michael O'Rourke, P.E., Ph.D., has authored snow load publications for ASCE on ASCE 7-02, ASCE 7-05, and ASCE 7-10, has written numerous snow-load-related journal articles, and has been the recipient of several snow-load-related research grants and contracts.

2:00 – 3:00 p.m. – *The Performance of New England's Buildings in the Winter of 2010-2011*

Hundreds of buildings in New England suffered structural damage or collapsed during the winter of 2010-2011. Mr. Zona will discuss lessons learned, with emphasis on the primary factors that lead to collapse.



Joe Zona, P.E., SECB, is a senior principal with Simpson Gumpertz & Heger Inc. and chairs the Structural Advisory Committee to the Massachusetts Board of Building Regulations and Standards.

3:30 – 4:30 p.m. – *The 2011 Joplin Tornado*

The Joplin Tornado of May 22, 2011 was one of the most damaging events to hit the state of Missouri in regards to casualties and costs. In light of the magnitude of devastation to the built environment, a SEAKM committee was formed to investigate the performance of some

of the building types that were damaged by the tornado. As a result of this investigation, the committee found commonalities in damage patterns, regardless of building type.



Randall Bernhardt, P.E., S.E., is Chief Structural Engineer for the St. Louis region at Burns & McDonnell Engineering Company, St. Louis, MO. He has served as a member of NEHRP Technical Subcommittee 5, Masonry, and is a member of the NCEES Structural Exam Committee.



Malcolm Carter, P.E., S.E., is a consulting structural engineer in Lenexa, Kansas. During his 43 years in the profession, he has been responsible for numerous structures located throughout the world.

4:30-5:00 p.m. – Speakers' Forum

Thursday Night, October 4

5:30 – 6:30 p.m. – *President's Reception for Delegates*

6:30 – 8:30 p.m. – *Welcome Reception with Exhibitors*

Friday, October 5

8:00 – 9:45 a.m. – *Roll call and Member Organization Reports*

10:30 – 12:30 p.m. – *ATC Cliff Notes: What you Should Know but Don't Have Time to Read*

This session will present key findings, conclusions, and discoveries from recently completed and ongoing projects funded by the Federal Emergency Management Agency (FEMA) and the National Institute of Standards and Technology (NIST). These projects will include:

- ATC-63: *Quantification of Building Seismic Performance Factors* (FEMA P-695).
- ATC-71-1: *Seismic Evaluation and Retrofit of Multi-Unit Wood-Frame Buildings With Weak First Stories* (FEMA P-807).
- ATC-72-1: *Modeling and Acceptance Criteria for Seismic Design and Analysis of Tall Buildings* (PEER/ATC 72-1).
- ATC-82: *Selecting and Scaling Earthquake Ground Motions for Performing Response-History Analyses* (NIST GCR 11-917-15).
- ATC-83: *Soil-Structure Interaction for Building Structures* (NIST GCR 11-917-15).

The session will also include a detailed overview of the ATC-58 project report, *Seismic Performance Assessment of Buildings* (FEMA P-58), and associated products such as the Performance Assessment Calculation Tool (PACT).



Jon Heintz, P.E., S.E., is Director of Projects at Applied Technology Council in Redwood City, California.



Ronald Hamburger, S.E., SECB, is Senior Principal at Simpson Gumpertz & Heger in San Francisco, California. Mr. Hamburger serves as Chair of the ASCE 7 Committee, the AISC Connection Prequalification Review Committee, and the NCSEA Code Advisory Committee.

1:30 – 3:00 p.m. – *Diaphragms and Wall Anchorage*

Dr. Timothy Mays will present major components of NCSEA design guides titled *Guide to the Design of Diaphragms, Chords and Collectors* and *Guide to the Design of Out-of-Plane Wall Anchorage*. The presentation will focus on example problems and appropriate hand and computer modeling techniques.

Register online at
www.ncsea.com

3:30 – 5:00 p.m. – *Serviceability and Foundation Systems*

Dr. Timothy Mays will present major components of newly released NCSEA design guides titled *Guide to the Design of Building Serviceability* and *Guide to the Design of Foundation Systems*. The presentation will focus on practical example problems, 2012 IBC Chapter 18, ASCE/SEI 7-10, and all areas of building serviceability.



Timothy Mays, Ph.D., P.E., is President of SE/ES and an Associate Professor of Civil Engineering at The Citadel in Charleston, SC. Dr. Mays currently serves as NCSEA Publications Committee Chairman. He has received two national teaching awards (ASCE and NSPE) and both national (NSF) and regional (ASEE) awards for outstanding research. He is a prolific speaker who sits on several code writing committees.

Friday night, October 5

2012 NCSEA Awards Banquet

6:00 – 7:00 p.m. – *Reception*

7:00 – 10:00 p.m. – *Banquet and Award Presentations*

The National Council of Structural Engineers Associations (NCSEA) will be announcing the 2012 Excellence in Structural Engineering Awards on Friday evening, October 5, during the 20th NCSEA Annual Conference in St. Louis, Missouri. Three awards will be given in eight categories, with one project in each category being named the Outstanding Project. Categories for 2012 were as follows:

- New Buildings under \$10 Million
- New Buildings \$10 Million to \$30 Million
- New Buildings \$30 Million to \$100 Million
- New Buildings over \$100 Million
- New Bridge and Transportation Structures
- International Structures
- Forensic / Renovation / Retrofit / Rehabilitation Structures
- Other Structures

Delegate Meeting – Saturday, October 6, 2012

7:00 am Breakfast and Presentation by Sponsor

8:00 am MO Roll Call

8:15 am Code Advisory Committee Report,
Ronald Hamburger, Chair

8:30 am Advocacy Committee Update,
Brian Dekker, Co-Chair

8:55 am Basic Education Update,
Craig Barnes & Brent Perkins, Co-Chairs

9:10 am Continuing Education Update,
Mike Tylk and Carrie Johnson, Co-Chairs

9:25 am SEER Committee Report, *Scott Nacheman, Chair*

9:40 am Licensing Committee Report, *Susan Jorgensen, Chair*

10:05 am Morning Break

10:20 am Publications Committee Report, *Tim Mays, Chair*

10:35 am YMG Scholarship Award Winner, *Heather Anesta*

10:50 am Executive Director Report, *Jeanne Vogelzang*

11:05 am SECB Report, *Bill Warren, Vice Chairman*

11:15 am Treasurer's Report, *Barry Arnold, Treasurer*

11:30 am Communication and Partnering Ad Hoc Committee,
Jim Malley, Chair

12:00 pm Lunch and Discussion of Ad Hoc Committee
w/ brief summaries

1:30 pm Adjourn

2:00 pm NCSEA Board Meeting



NCSEA Twentieth Annual Conference

Exhibitors

American Institute of Steel Construction

www.aisc.org

The AISC Steel Solutions Center (SSC) is the one-stop shop for the structural steel industry. The SSC answers technical questions and provides complimentary conceptual studies in structural steel for buildings and bridges. The SSC facilitates a file sharing and networking site (www.steelTOOLS.org) for the design and construction community.

AZZ Galvanizing Services

www.azzgalvanizing.com

AZZ Galvanizing Service owns and operates 33 hot dip galvanizing plants strategically located across the US, with kettles ranging in size from 25 to 62 feet. They accommodate the largest projects with customized turnaround time at a competitive price. The company serves the after-fabrication steel market with corrosion protection.



Bekaert

www.bekaert.com

Dramix® steel fibers, by Bekaert, are a practical alternative for traditional reinforcement. Its principle advantages are reduction in construction time, material and costs. Bekaert has received its ICC-ES certification for Dramix in concrete footings, slabs on ground, and elements. Dramix also meets the requirements of "steel fiber-reinforced concrete" per ACI318.

Bentley Systems Inc.

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Bentley's flexible and scalable products, including RAM, STAAD and ProSteel, allow seamless workflow of analysis, design, detailing, documentation, and BIM for building, plant, and civil applications. Completely integrated solutions are available for steel, composite steel, cold-formed steel, cellular beams, as well as reinforced concrete, post-tensioned concrete, wood, aluminum, and masonry.



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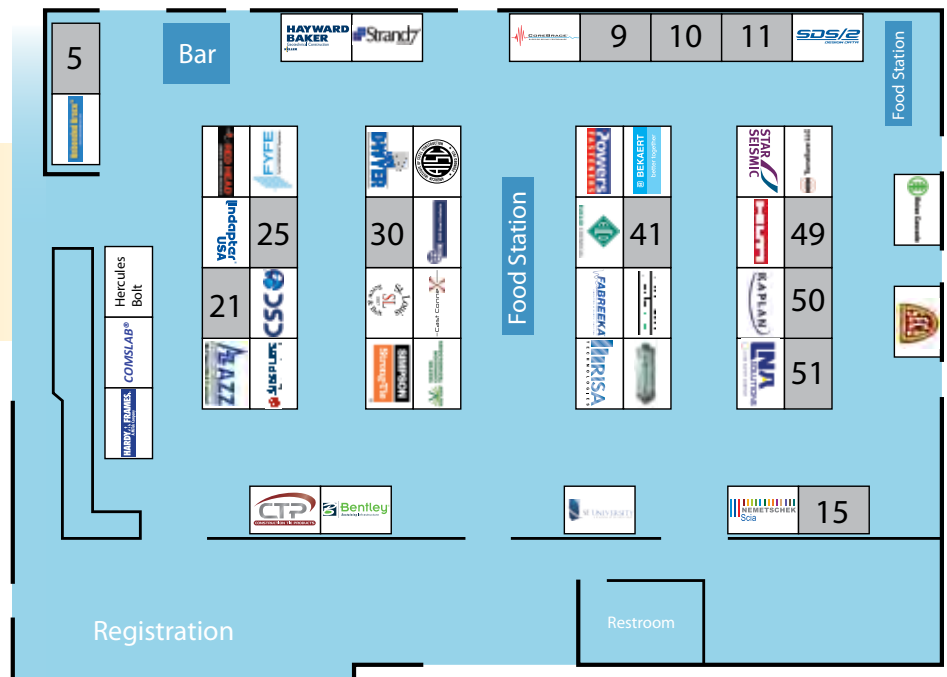
www.cmcsteelproducts.com

CMC Steel Products manufactures the cellular and castellated SMARTBEAM® – an innovative, economical and sustainable alternative for floor and roof framing systems. Manufactured from recycled materials, the beams are lightweight, have superior deflection properties, and can integrate MEP systems through the web openings. SMARTBEAM® – The Intelligent Alternative

COMSLAB

<http://bmp-group.com>

The ComSlab System from Bailey is a two hour fire rated, structurally superior composite floor. ComSlab will accommodate all wall systems including lightweight steel framing, structural steel, masonry or poured concrete, insulated concrete forms or wood framing construction. It is a proven, reliable, and cost-effective composite steel deck.



Construction Tie Products

www.ctpanchors.com

CTP designs and produces masonry anchoring products used for the restoration and construction of masonry buildings. Product lines address retrofitting existing masonry and stone facades with non-obtrusive anchors that stabilize the existing veneer. Wall ties and anchors are also produced. CTP, Inc is an American corporation.



Corebrace

www.corebrace.com

CoreBrace buckling-restrained braces are a sustainable and cost effective solution to improve the seismic performance of structures. This highly ductile system has been used in hundreds of projects for earthquake risk mitigation. CoreBrace's expert staff works closely with engineers, and the entire design and construction team, to meet their requirements.



CSC Inc

www.cscworld.com

CSC has developed innovative structural engineering software for over 35 years. Tedds automates daily structural designs by providing a comprehensive library of calculations with the flexibility to create and customize calculations within Microsoft Word. Fastrak is the definitive software for the design, documentation and BIM interoperability of structural steel buildings.

Design Data

www.sds2.com

Design Data's SDS/2 software solutions provide automatic detailing, connection design, engineering information, and other data for the steel industry's fabrication, detailing and engineering sectors. As a BIM software, SDS/2 allows for the sharing of data between all partners, reducing the time required to design, detail, fabricate and erect steel.

Dwyer Companies

www.dwyercompanies.com

Dwyer Companies is one of the largest Foundation Repair, Waterproofing, Soil Stabilization and Concrete Lifting companies in the United States.

Ecospan-Nucor Vulcraft Group

www.ecospan-usa.com

The ECOSPAN® Composite Floor System by Nucor-Vulcraft is a light weight, economical open web steel structural system for elevated concrete floor construction requiring no shoring or temporary forming. ECOSPAN® utilizes over 80% recycled steel materials produced at Nucor Steel mills that will assist in obtaining LEED accreditation for buildings.

Euclid Chemical Company

www.euclidchemical.com

The Euclid Chemical Company manufactures high quality concrete and masonry materials for new construction, concrete repair, and decorative concrete. We strive to be "demonstratively better" for our customers through cutting edge research, technical support and service, product training and an education-driven specification effort.

Fabreka International, Inc

www.fabreka.com

Fabreka's experience in vibration control includes the dynamic response of steel fabrications and support structures. Services include measuring building floor vibration, displacement response of floors/mezzanines and modeling of structures to predict performance. Fabreka's capabilities include NASTRAN and finite element analysis programs to analyze the static and dynamic conditions.

Fyfe Co. LLC

www.fyfeco.com

A leader in the manufacturing of advanced composites used for civil and structural applications. The Tyfo® Fibwrap® Fiber Reinforced Polymer (FRP) system is used on concrete structures including bridges, buildings, industrial facilities and pipelines, is the only FRP system available in the world with an ICC ES Report, ESR-2103, which meets 2009 IBC standards.



Hardy Frames, Inc

www.hardyframe.com

Hardy Frames Inc. manufactures and markets the Hardy Frame shear wall system, and is the leader in the pre-fabricated shear wall industry. The Hardy Frame system allows Building Design Professionals to economically and safely minimize wall space and maximize wall openings while resisting high wind and earthquake loads.

Hayward Baker

www.haywardbaker.com

Hayward Baker provides geotechnical construction techniques for structural support, ground improvement, and earth retention. We assist structural engineers to ensure a solid understanding of our techniques and how they can best be applied to solve geotechnical problems. Hayward Baker is the #1 Excavation/Foundation Contractor, ranked by Engineering News-Record.

Hercules Bolt Company

www.herculesbolt.com

Hercules Bolt has the experience and superior service to get the job done right and on timewhen your job demands precision, exact tolerances and consistent, top-quality products. Since 1998, Hercules Bolt has been a leading manufacturer and distributor of heavy fasteners and customized products for fabricators and contractors.

Hilti North America

www.us.hilti.com

Hilti is a world-leading manufacturer of quality, innovative tools and fastening and protection systems. With more than 190 highly trained engineers and technical team members, Hilti provides both onsite technical expertise and back office support. Hilti also offers PROFIS design software to assist design, specifying consultants and professional contractors.

ITW Red Head

www.itwredhead.com

ITW Red Head is America's largest manufacturer of fastening products used in concrete construction. Since the invention of the original "self-drill" anchor in 1910 and the first "powder-actuated tool" in 1947, Red Head has led the industry with time saving, high performance products.



Kaplan Architecture & Engineering Education

www.kaplanaceengineering.com

Kaplan Engineering Education provides focused learning tools to help you pass the FE/EIT, PE, or SE Exam. Comprehensive learning systems with up-to-date review guides, online diagnostic materials, and live-online review courses help you to coordinate a successful study program.

Lindapter International

www.LindapterUSA.com

Lindapter saves time and money with innovative products for Structural Steel Clamping and Hollow Structural Section Connections The Girder Clamp and Holo-Bolt (AISC recognized Blind Bolt) challenge the need to weld or drill, a safe, high strength connection can be quickly achieved by clamping two structural steel sections together.

LNA Solutions

www.LNASolutions.com

LNA Solutions provides Structural Steel Connection Solutions without the need of field drilling or field welding. These methods are very cost effective, especially in cases where secondary steel is added to existing structures. LNA Solutions provides full service design of your connection without additional charge. Call 888-724-2323 for consultation today.

Nemetschek Scia

www.Nemetschek-Engineering.com

Looking to migrate to, or improve your 3D design workflows? Don't miss this opportunity! Stop by and see how a new breed for structural design software is helping firms plug analysis and design into today's 3D workflows, and allowing engineers to work iteratively with others on the design team.

Nucor-Vulcraft Group

www.vulcraft.com

Vulcraft is the largest steel joist, girder and deck producer in the United States. We have 7 joist plants and 9 deck plants that service the entire US as well as Mexico and Canada. A division of Nucor, we share the same #1 goal of Taking Care of Our Customers!

Powers Fasteners

www.powers.com

Powers Fasteners is a privately held company specializing in global marketing of quality anchoring and fastening products for concrete, masonry and steel. Powers has been providing innovative fastening solutions for more than 85 years. Powers can provide answers to all of your construction fastening needs.



RISA Technologies

www.risa.com

RISA has been developing leading edge structural design and optimization software for over 20 years. Our products are used around the world for buildings, stadiums, bridges and everything in between. The seamless integration of RISAFloor and RISA-3D creates a powerful structural design environment, ready to tackle your next design challenge.



SECB

www.secertboard.org

The Structural Engineering Certification Board was formed to identify those professional engineers with the additional education, experience, and skills that are particular to the practice of Structural Engineering.

SE Solutions, LLC

www.LearnWithSEU.com

www.FindYourEngineer.com

SE Solutions works to help companies involved in structural engineering in two key ways. First, we have a unique continuing education resource for structural engineers called SE University. Second, we have a business unit that helps companies find and hire highly talented structural engineers.

SidePlate Systems, Inc.

www.sideplate.com

Steel frame solutions for structures in all design environments without CJP welds. With the advent of SidePlate FRAME™ connection technology, superior performance now comes with the least cost, saving time and money on virtually any project when compared to alternative structural systems, regardless of whether wind, seismic or blast/progressive collapse governs.

Simpson Strong-Tie

www.strongtie.com

For more than 50 years, Simpson Strong-Tie® has led the industry in product solutions that increase the structural integrity of homes and buildings, making them stronger and safer. Products include Wood and Steel Strong-Wall® shearwalls, Strong Frame® ordinary moment frames, products for Cold-Formed Steel, and Simpson Strong-Tie Anchor Systems®.



St. Louis Screw & Bolt

www.stlouisscrewbolt.com

St. Louis Screw & Bolt is one of the longest operating bolt manufacturers in the world, and one of the the only manufacturers who sells direct to Fabricators and Erectors. St. Louis specializes in manufacturing A325 & A490 bolts type I, type III, Hot Dip and Mechanical Galvanized finishes.

Star Seismic

www.StarSeismic.net

Star Seismic designs and manufactures buckling restrained braces, the most rapidly growing seismic system. Not only do you get a superior seismic performance, but you save construction time and money as well. Let Star Seismic reduce your risk by assisting you through the design of your next project.

STRAND7 PTY LTD

www.strand7.com

Strand7 is a sensibly priced FEA system. It comprises preprocessing (with CAD import, automeshing), solvers (linear, non linear, dynamic and thermal) and post processing. Release 2.4 has many new features include staged construction, new solvers including quasi-static for shrinkage and creep/relaxation problems.

TurnaSure, LLC

www.TurnaSure.com

TurnaSure LLC is the manufacturer of Direct Tension Indicators strictly adhering to the ASTM F959 Standard. TurnAnut™ DTI fastener is an ingenious new tensioning device linking a TurnaSure® DTI to an ASTM A563 DH nut. Now the nut, hardened washer and Direct Tension Indicator become one piece.

Unbonded Brace

www.UnbondedBrace.com

Unbonded Brace™ is the original, and most widely-used buckling-restrained brace (BRB) in the world, with more than 20 years research and development and 1,000 projects worldwide. Now offering a trio of welded, pinned and bolted connections, Unbonded Brace (UBB), continues to set the standard for product quality and high-end applications.

Vector Corrosion Technologies

www.vector-corrosion.com

Innovative solutions for concrete corrosion repair and protection include electrochemical chloride extraction, cathodic protection, and an array of galvanic protection systems like embedded galvanic anodes, galvanic jackets and activated arc spray zinc metalizing. Vector also provides corrosion evaluation, repair/mitigation services for post-tension corrosion and temperature resistant composite strengthening systems.



Conference Hotel

Hilton St. Louis Frontenac

1335 South Lindbergh Blvd.

Saint Louis, Missouri 63131

Reserve a room online, linking from the NCSEA website (www.ncsea.com), or call 314-993-1100 and use group code **NSES** to secure a room at the group rate of just \$102/night, good until Tuesday, September 11.

Airline Discount

American Airlines: 5% discount for flights booked directly through their website aa.com. Use group code **2492BP**.

United Airlines: Tiered discount (2-10%). Use code **ZNDX665898**.

Airport/Hotel Shuttle

Available at no cost: In the St. Louis Airport baggage claim area, use the courtesy phones to dial the St. Louis Frontenac Hilton (#20). Let the operator know that you are ready to be picked up. Reservations not required.

Free Time Options

The hotel will be providing free transportation to the following:

The Anheuser-Busch Brewery, offering a complimentary tour to introduce you to how Budweiser is crafted by following through the steps of the brewing process.

The St. Louis Zoo, located on 90 acres in beautiful Forest Park and home to 655 species of animals, many of them rare and endangered (free admission).

Shopping: Galleria Mall and West County Mall (10% off Macy's coupon card available at registration).

Metrolink train for reaching other St. Louis destinations, including the Gateway Arch.



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

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