

The New Hampshire *Civil Engineer*

VOL. 31 No. 05

New Hampshire Section of the American Society of Civil Engineers
P.O. Box 4953, Manchester, NH 03108

May 2010

President's Message



Hello May! Welcome flowers and spring showers??? Spring is summer one day and fall the next... at least the bugs know what season it is; Mother Nature has her own agenda!

The New Hampshire ASCE Calendar year is almost over, but not without topping the year off with two great events! In May, we are enjoying, what we hope to be our new annual event, a night at the Bedford Village Inn for our Awards Ceremony. The highlight of the night will be celebrating and recognizing our scholarship recipients and 2010-2011 Officers. It will be a wonderful night to honor everyone. Unfortunately, we did not receive an Outstanding Civil Engineering Achievement Nomination, it may be the times we live in today, but the award is an important symbol for NH engineers. Please evaluate your projects for next year's award. Mike Mozer has envisioned a great production and presentation of the award at our Annual Meeting; let us find those worthy projects to honor in NH!

On June 10th, pray for great weather, and join us at the Annual Golf Outing supporting the Scholarship Funds. We have always had a great time, and thank you to Hugh Scott for teeing up the event for us. He has worked hard and is bringing a great energy to this event in his first year; book now and help us sponsor and support the event!

Once again it is time to elect officers; this month the ballot arrives to elect your 2010-2011 officers. You'll see very familiar faces as everyone continues to give their time and energy to supporting the NH Section. This year we also had a number of new individuals become involved at the committee level and support other ASCE functions, we cannot express our gratitude enough and thank you for the time and improvements you have made to our section with your service. As in all years, we love to see new faces on the Board and especially at the committee level; please think about involvement in the future and feel free to discuss the experience with any member of the board.

This year's ballot will contain Constitutional Amendments to be voted on by our members. The Constitution Amendments are relatively minor language changes; however these institutional revisions will allow the Board of Directors the ability to add additional programs, institutes, and committees that will benefit the membership.

(continued on page 2)

2009~2010 BOARD OF DIRECTORS

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Newsletter Editor

Jessie Merck
The H.L. Turner Group Inc.
27 Locke Road
Concord, NH 03301
(603) 228-1122

Please Send Correspondence To:

The New Hampshire Civil Engineer
NH ASCE
P.O. Box 4953
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Advertisements should be placed with the
newsletter editor prior to the deadline.
Details on website.

*All newsletter submissions must be
received by the 10th of the month
prior to publication.*

**Next deadline:
Monday, May 10th**

Newsletter Publisher
Town & Country Reprographics, Inc.
Concord, New Hampshire

President's Message (continued from page 1)

The board has unanimously approved the revisions, specifically to move forward and incorporate the Granite State Geo-Institute. There has been tremendous effort reviewing the Constitution and By-Laws to provide the necessary information to the national ASCE Geo-Institute. This energy, under the direction of Ken Milender and the rest of the Board of Directors, is an example of how the board is striving to add value to your membership. The Constitutional Amendments are relatively minor in nature; we need a two-thirds majority approval of the voting response. Please respond to make these changes effective and demonstrate your support of the NH Section.

Thank you to all those who continue to encourage the ASCE-NH Section through your time, donations, and efforts. I'd like to stress the importance and significance of voting on this year's ballot, we have asked all our members to consider participating more and there is no better way to start your participation than to VOTE! I can't wait to see everyone at the May Awards Ceremony, where we can look back on the successes we've had this year. Please join us in attending or sponsoring this noteworthy event.

Jason M. Ayotte, PE, is President of ASCE-NH and a Transportation Engineer with VHB in Bedford, NH. Mr. Ayotte welcomes comments and may be reached at jayotte@vhb.com or (603) 644-0888, Ext. 2584.

NEW HAMPSHIRE SECTION
American Society of Civil Engineers

MAY MEETING ANNOUNCEMENT
ANNUAL AWARDS DINNER & OFFICER INDUCTION

Date: Thursday, May 27, 2010

Times &
Events: 5:15 pm, Social Hour
6:30 pm, Dinner
7:30 pm, Awards Presentation & New Officer Inductions

Location: Bedford Village Inn, Bedford, NH

Cost: \$65.00 ASCE Members & Guests – Student Members \$30.00
Note: No-shows will be invoiced for the cost of the dinner.

Meal: Buffet stations featuring Sweet Baby Shrimp & Penne Pasta and Roast Round of Beef.

Synopsis: Please join us for an enjoyable evening as we celebrate some of our outstanding members and New Hampshire's future engineers in the fine ambience of the Bedford Village Inn's Great Hall. Our annual awards dinner will include Life Member recognitions and presentation of Student Scholarships, Employer Recognition and President Awards. Officers for the 2010-2011 New Hampshire Section Board of Directors will also be inducted.
Chance to win four Red Sox tickets. Raffle tickets will be on sale!

Sponsorships: Please help support this event! ASCE-NH depends on the generous support of the engineering community throughout the year; we are offering another opportunity to contribute with this event. Your donation of \$100 would help make this event a success. Your company logo will be prominently displayed at the event, and we will note your kind sponsorship.

Reservations: Email preferred to baudet@cmaengineers.com, or by phone at 603-627-0708

Please send checks made payable to NH-ASCE by mail to:

Britt Audet, P.E.
CMA Engineers, Inc.
55 South Commercial Street
Manchester, NH 03101

Reservation Deadline May 20, 2010

Directions: <http://www.bedfordvillageinn.com/map-directions/index.cfm>

NEW HAMPSHIRE SECTION ASCE
SCHOLARSHIP GOLF OUTING
AND DINNER/PRIZES

THURSDAY JUNE 10, 2010
BEAVER MEADOW GOLF CLUB - CONCORD, NH

7:00am - Registration
7:30am - Continental Breakfast
8:30am - Shotgun Start
1:30pm - Buffet Style Dinner
2:15pm - Announce Contest/Raffle Prize Winners

FORMAT

Scramble - Each player tees off on each hole. The best of the tee shots is selected and all players play their second shots from that spot, and so on until the ball is holed.

CONTESTS / PRIZES

1st, 2nd and 3rd Place Teams	Putting Contest at the Turn
Closest to Pin	Hole in One Prizes
Longest Drive	Raffles (including 50/50)



*Rules will be reviewed prior to the Shotgun Start

SPONSORSHIPS

Please help us make the Golf Outing a success by sponsoring a hole or contest. Hole and contest sponsorships are available for \$125/sponsorship. All proceeds over and above event costs go to the ASCE Scholarship Fund to assist NH high school seniors and UNH students enrolled in ABET accredited Civil Engineering programs. All sponsors will have their company name/logo displayed prominently on the course. Contact Hugh Scott at (603) 828-9253 or hugh.scott@ads-pipe.com to sponsor a hole or contest.

REGISTRATION

Golf/Dinner/Raffles: \$100.00

Golf includes: Greens fee/cart/goodie bag/contest participation/continental breakfast

Note: Team sign-ups are encouraged, 4-person teams:	\$375.00
Individual sign-ups:	\$100.00
Hole/contest sponsorships:	\$125.00
4-person teams with hole/contest sponsorship:	\$475.00

Send Reservations: Email preferred to hugh.scott@ads-pipe.com, or by US Mail to:

Hugh Scott
P.O. Box 1457
Portsmouth, NH 03802

Reservation Deadline June 1, 2010

Directions: Take I-93 to Exit 15W and merge onto 202W/US-4/393W. Turn right onto North State/US-3 at the end of 393. Proceed approximately 2.9 miles to a fork in the road. Bear right onto Sewall's Falls Road at the sign for Beaver Meadow. Course is on the Right.

2-PART SUMMER GEOTECHNICAL WEBINAR

**ASCE National pulled the plug on this one the last time. “They’ve” assured us this time will be different!
So, take time out from your busy summertime construction schedule!**

The resurrected ASCENH Technical Committee and the new Granite State Geo-Institute will be sponsoring this lunchtime geotechnical webinar. Read on...!

- **“LRFD for Geotechnical Engineering” 2-Part Webinar**
 - { 3.0 PDHs for attending both Parts }
 - Part I “Fundamentals of LRFD”
 - Wednesday, 30 June 2010, 12:00 – 1:30 p.m.

 - Part II “Geotechnical LRFD Loads”
 - Thursday, 15 July 2010, 12:00 – 1:30 p.m.

NH Department of Transportation
1 Hazen Drive
Concord, NH
\$30 for ASCE members
\$40 for non-ASCE members
Free to NHDOT and municipal engineers
Admission includes light lunch.

To access the webinar brochures go to National’s website www.asce.org and follow along to “Continuing Education” and “Live, Interactive Web Seminars”.

Reservations: Email preferred to: kmilender@millerengandtesting.com .

Reservation Deadline: 21 June 2010. Seating is limited. Please arrive by 11:45 for registration; the interactive webinar programs begin promptly at 12:00 Noon.

New Hampshire Section ASCE

2010-2011 Officer Candidates

Enclosed with this month's newsletter, you will find a ballot for the 2010-2011 NH ASCE Board of Directors. In addition to the nominations by the Nominating Committee, there is space for a write-in candidate. A brief bio of the candidates is included below.

ASCE Officer Candidate Bios

President-Elect: Jeff Bjrz, PE

Mr. Bjrz is an engineer with the City of Lebanon, New Hampshire. He has 6 years of civil engineering experience and earned his professional engineer license in 2008. Mr. Bjrz graduated with a BSCE from Minnesota State University in 2004. He lives in Hanover, New Hampshire with his wife, Aja. Mr. Bjrz has served as a New England delegate for the past two years for ASCE NH Section.

Vice President: Hugh C. Scott IV, PE

Mr. Scott is a registered professional engineer in the state of NH. He works with Advanced Drainage Systems/Hancor as a regional engineer. Previously, he was employed with Advanced Concrete Technologies, Inc. as an application engineer and by Appledore Marine Engineering as a project engineer/diver. He holds a BSCE in Civil Engineering from the University of New Hampshire (UNH) and a MS in Civil Engineering with concentration in Material Science also from UNH. He has been a member of ASCE since 2002 either through company affiliation or as a private member. He is recently engaged and living in the NH seacoast.

Treasurer: Tim Audet, EIT

Mr. Audet is an aviation engineer with Hoyle, Tanner and Associates where he has been employed since 2002. He has 8 years experience and is responsible for planning, designing, bidding, and inspecting various airport projects around New England. Mr. Audet has been a member of ASCE since graduating from the University of New Hampshire in 2002 where he earned a BS in Civil Engineering. He resides in Nottingham, NH with his lovely wife Britt and beautiful sons Odin and Bodie.

Clerk: Kenneth W. Milender, PE, PG

Mr. Milender is a geotechnical engineer with Miller Engineering & Testing, Inc. in Manchester. He received his MSCE in May 2004 from the University of New Hampshire, following a long career as a geologist with older degrees (B.S. in geology from Tufts University and M.S. in engineering geology from University of Wisconsin). He currently serves as the N.H. Section's Clerk and the acting chairman of the Granite State Geo-Institute. He enjoys life in Warner with his wife (Casey), son (Sammy), and three dogs (Alvin, Simon, and Theodore).

Secretary: Logan Johnson, EIT

Mrs. Johnson is an engineer with the Golder Associates in Manchester, New Hampshire. Mrs. Johnson served as secretary for the ASCE NH Section in 2009-2010. She graduated with a BS in Civil Engineering from Rensselaer

Polytechnic Institute in 2008 and lives in Bedford, New Hampshire with her husband, Chris Johnson.

Jr. NE Council Delegate: Brian Vincent, PE

Mr. Vincent is a Senior Project Engineer with Nobis Engineering, Inc. of Concord, New Hampshire, where he has been employed since 1991. He has over 19 years of civil and environmental engineering experience. Mr. Vincent graduated with a BSCE from the University of New Hampshire in 1990. He has been a member of ASCE for 20 years. He lives in Sunapee, New Hampshire with his wife, Kelly, and two sons, Ian and Hank.

Non-Elected Individuals

President: Britt Eckstrom Audet, PE

Mrs. Audet is currently serving as President-Elect of the New Hampshire Section and will continue to serve on the next Board of Directors as President. Mrs. Audet works for CMA Engineers in Manchester, NH as a civil/environmental engineer. She has over 7 years of experience as a civil engineer. Mrs. Audet has a BS in Civil Engineering from the University of New Hampshire and MS from the University of California – Berkeley. She lives in Nottingham, NH with her husband, Tim and sons, Odin and Bodie.

Past President: Jason Ayotte, PE

Mr. Ayotte is currently serving as President of the New Hampshire Section and will continue to serve on the Board of Directors as the immediate Past President. Mr. Ayotte is a Project Engineer with Vanasse Hangen Brustlin, Inc of Bedford, New Hampshire, where he has been employed since 2006 and has 10 years of transportation engineering experience. Mr. Ayotte graduated with a BSCE from the University of New Hampshire in 2000, is a registered NH professional engineer, and has been a member of ASCE for over 10 years, and. He resides in Manchester, New Hampshire with his wife, Jen, son, Cameron, and daughter, Morgan.

Sr. NE Council Delegate: Steve Wolf, PE

Stephen Wolf, P.E., M ASCE is Northern New England Manager for CONTECH Construction Products Inc. He is responsible for promotion and sales in ME, NH and VT for CONTECH's extensive Bridge, Stormwater, Drainage and Earth Stabilization portfolio. Steve is the 2007-2008 past President of ASCE's NH section, is a member of NH Good Roads and VT AGC. He has been a member of ASCE since 1984.

In 1992, Steve joined CONTECH's Maryland office and transferred to New Hampshire in 2000. He holds a BSCE from University of Maryland and an MBA from Johns Hopkins University. He is a licensed Professional Engineer in NH and MD. He began his career as a site development consulting engineer and later became the Land Development Planning/Engineering Manager for the MD division of Pulte Home Corp.

**American Society of Civil Engineers
New Hampshire Section**

P.O. Box 4953 Manchester, New Hampshire 03108



BALLOT FOR 2010 – 2011 BOARD OF DIRECTORS

NEW HAMPSHIRE SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

ASCE Membership number (required): _____

Please choose nominee for each office: circle the name or write in a nominee. Bios for candidates for vacant positions are in the newsletter.

Please return ballot postmarked on or before **May 14, 2010**.

PRESIDENT-ELECT Jeff Bjrz, PE _____
(write-in nominee)

VICE-PRESIDENT Hugh Scott, IV, PE _____
(write-in nominee)

TREASURER Tim Audet, EIT _____
(write-in nominee)

CLERK Ken Milender, PE _____
(write-in nominee)

SECRETARY Logan Johnson, EIT _____
(write-in nominee)

JUNIOR NE COUNCIL DELEGATE
Brian Vincent, PE _____
(write-in nominee)

The current President-Elect Britt Audet, PE will become President, President Jason Ayotte, PE will become Past-President and Jr. New England Delegate, Steve Wolf PE, will become Sr. New England Delegate. The Board of Directors encourages your comments and participation in Board meetings, Dinner Meetings, Technical Presentations and Social Events. Please provide any questions or suggestions for the current or incoming Board of Directors.

American Society of Civil Engineers
New Hampshire Section

P.O. Box 4953 Manchester, New Hampshire 03108



**PROPOSED AMENDMENTS TO
ASCE NEW HAMPSHIRE SECTION'S CONSTITUTION**

While reviewing and updating the ASCE New Hampshire Section's Operating Manual, we have determined that we should make a few changes to the ASCE New Hampshire Section's Constitution. The proposed amendments will clarify and streamline these sections of the Constitution, and remove some redundancy. For these amendments to take affect, we require a 2/3 approval vote by the Board of Directors, followed by a 2/3 approval vote by the membership.

*Please return ballots (shown on the next page) postmarked on or before **May 14, 2010**.*

The ASCE-NH Constitution shall be amended as follows:

* **Amendment #1:** Article IV, §2 shall be deleted and replaced with the following:

Section 2 Terms of Office. All Board positions shall be for terms of one year. The officers of the Section shall be:

- (a) The President shall serve a 1-year unelected position; the President shall assume the office immediately following the conclusion of a term as President-Elect.
- (b) The President-Elect shall be elected for a 1-year term annually.
- (c) The Past President shall serve a 1-year unelected position, assuming the office immediately following the conclusion of a term as President.
- (d) The Vice President shall be elected to a 1-year term annually.
- (e) The Treasurer shall be elected to a 1-year term annually.
- (f) The Secretary shall be elected to a 1-year term annually.
- (g) The Clerk of the Board shall be elected to a 1-year term annually.
- (h) The Junior New England Council Delegate shall be elected to a 1-year term annually.
- (i) The Senior New England Council Delegate shall serve a 1-year unelected position, and shall assume the office immediately following the conclusion of a term as Junior New England Council Delegate.

Notwithstanding the Council Constitution, terms of all officers shall begin at the close of the Annual Meeting and continue until a successor qualifies.

* **Amendment #2:** Existing Articles IV, § 4, §5, and §6 shall be deleted from the Constitution and moved into Article III of the Section Bylaws, as applicable:

Section 4 Nominations. The Nominating Committee shall develop a slate of official nominees, who have consented to serve if elected, for submission to the membership. The name of any other candidate eligible for office may appear on the ballot by the submission of a written petition bearing the signatures of at least five percent (5%) of the subscribing members of the Section, provided that a statement of consent to serve shall also be filed by said candidate.

Section 5 Elections. Election of officers shall be by secret ballot circulated by the Secretary, voted upon by only subscribing members, and tallied under the supervision of Ballot Tellers appointed by the President.

Section 6 Vacancies. A vacancy occurring in an elective office during the term of an officer shall be filled for the remaining portion of the term as follows:

- A . President: by the President-Elect; such service will not affect the President-Elect's predetermined term of the office of President.
- B . President-Elect:
 - 1. Sixty (60) days or less prior to the election deadline: the office shall remain vacant and its duties re-assigned to other officers by the President.
 - 2. More than sixty (60) days prior to the election deadline: in the same manner as regular elections.
- C . All other Officers (except Past-President): to be appointed by the Nominating Committee, regardless of duration of the remainder of term.

The Board of Directors shall have the authority to resolve any unusual circumstances not specifically addressed by this section.

* **Amendment #3:** Article VI, §1 shall be amended by the following language (proposed new text is underlined):

Section 1 Subsidiary Organizations. The Board of Directors may establish Branches, Technical Groups, and Institute Chapters that enhance or perform any of the functions proper to the Section objectives.

ASCE Membership Number (required):_____

Amendment #1: Y N

Amendment #2: Y N

Amendment #3: Y N

Kindly check the box to approve or reject each amendment and return to:

American Society of Civil Engineers
New Hampshire Section
P.O. Box 4953
Manchester, NH 03108

New Hampshire Section ASCE

Wind Power Development in New England

Ed Cherian of Iberdrola Renewables, Inc.

Thursday March 4, 2010 – NHTI Library, Concord, NH

Attendance List

Bob Arrendondo, NHTI	Beth Blankenstein, NHTI	Al Carson	Holly Carson
Scott Carter, Terracon	Veronica Thibodeau Carter, NHTI	Robert H. Clemens, Golder Associates	Jim Cullen, NHTI Student
Keith Donington, PB	Larry Dwyer, Terracon	Thomas Forslf, NHSP	Bill French, NHTI
Mark Greene	Mark Haney Golder Associates	Lenny Harrison, NHTI	Harold Hart, NHTI
Jay Hodkinson GZA Geoenvironmental	Ken Kournneef Nobis Engineering, Inc.	Ralph Laun, BAJR	Hugh T. Lee Goss International
David Liukkonen, P.E.	Jerry Maher Continental Paving, Inc.	Tim Mallette, NH DOT	Michael Manning, Manning
Brittany Marshal, Student	Heidi Marshall, CLD	James Marshall, NH DOT	John Maynard Maguire Group
Gary McAllister, GZA	Kevin McCaffery, Stantec	Neal Murphy	Nannu Nobis Nobis Engineering, Inc.
Bill O'Donnell, NH DOT	Joe Persechino Appledore Engineering	Jim Ropp, Tetra Tech	Tony Simmonds Geokon Inc.
Chuck Schmidt, NH DOT	Nick Small, NHTI	Matthew Stearns Deerpath Energy	Eric Truebe Lakeside Engineering
Jon Truebe Lakeside Engineering	Maria Vianna, Geokon Inc.	Jon Warzoch	Joan Zimmerman, NHTI

April Meeting Attendance

Joint meeting with the UNH College of Engineering and Physical Sciences
 With Key note address by Kathy J. Caldwell, P.E., M.ASCE, ASCE National President-Elect
 April 15, 2010 – University of New Hampshire, NH - 1.0 Professional Development Hours (PDH)

Britt Audet, PE CMA Engineers, Inc.	Jason Ayotte, PE Vanasse Hangen Brustlin, Inc.	Erin Bell University of New Hampshire	Jean Benoit University of New Hampshire
Scott Bourcier, PE DuBois & King, Inc.	Dave Brogan, PE, Ransom Environmental Consultants	Tim Bryant Vanasse Hangen Brustlin, Inc.	Kathy Caldwell, PE ASCE
Ray Cook University of New Hampshire	Jo Daniel University of New Hampshire	Larry Dwyer, PE, Terracon	Fred Emanuel, PE, Emanuel Engineering, Inc.
David Emanuel, PE, Emanuel Engineering, Inc.	Ed Gallagher	Marc Grenier, PE, R.W. Gillespie & Associates	Leon Kenison, PE Nashua Public Works Dept.
Dana Lynch, PE Civilworks, Inc.	John Maynard, PE Maguire Group Inc.	Ricardo Medina University of New Hampshire	Jeff Melton University of New Hampshire
Ken Milender, PE Miller Engineering & Testing	Chris Robert, EIT, Kleinfelder/S E A Consultants	Brian Vincent, PE Nobis Engineering, Inc.	

Cranium Challenge

May 2010

Congratulations to our colleagues who provided the correct answer to the March challenge:

Several answers are possible...the minimum number of eggs she could have is 25,201. The most common correct response was 3,628,801 which is $10! + 1$.

- | | |
|--------------------|---------------------------------|
| Nick McNiell | Pinkerton Academy |
| Lisa Babcock, AA | Town of Newton |
| John Scott, PE | Rist-Frost-Shumway Engineering |
| James Barney | Sulloway & Hollis, PLLC |
| Sally Gunn, PE | Vanasse Hangen Brustlin |
| Thomas Selling, PE | T. R. Selling Engineering, P.C. |

May puzzle:

Rearrange the following letters to give two different 11-letter words

A C D E E I N O R S T

Send your solutions to Rebekah Briggs, University of New Hampshire, W183 Kingsbury Hall, Durham, NH 03824 or by email to rebekah.briggs@unh.edu. Correct responses received by June 1, 2010 will be recognized in a future issue of "The New Hampshire Civil Engineer".

PROFESSIONAL DIRECTORY

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New Hampshire Section ASCE



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Planning Calendar

May 14, 2010	Board of Director's Ballots Due; Constitution Amendment Ballots Due
May, 27, 2010	Annual Awards Dinner and Officer Induction, Bedford Village Inn, Bedford, NH
June 10, 2010	Golf Outing, Beaver Meadow Golf Club, Concord, NH
June 30, 2010	Part I "Fundamentals of LRFD" Geotechnical Webinar, Concord, NH
July 15, 2010	Part II "Geotechnical LRFD Loads" Geotechnical Webinar, Concord, NH

View the unified engineering calendar at www.nhecal.org.

Contact Britt Audet, PE at CMA Engineers (603) 627-0708 or baudet@cmaengineers.com for details on upcoming meetings.

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