

# The New Hampshire *Civil Engineer*

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

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## PRESIDENT'S MESSAGE

### Happy New Year, New Hampshire Section!



Be sure to mark your 2015-calendars for the ski day and project presentation at Waterville Valley on Friday, January 30, 2015. Just like designing for snow loads, this event is sure to be lots of fun! Please refer to the meeting announcement for more information.

Also offered in January will be the P.E. Refresher

Course for Civil Engineers. This is a great course to prepare for the P.E. Exam. Applications for the course are due Tuesday, January 9, 2015. Please refer to the course announcement for more information.

Applications for the Engineer of the Year (EOY) and Young Engineer of the Year (YEOY) awards are due Wednesday, January 21, 2015. Don't forget to submit those applications!

Have you renewed your ASCE-NH membership yet? As of January 2015, membership renewals are overdue. Don't forget to renew!

Last month I had the opportunity to meet with ASCE-NH Student Chapter students to discuss the 2015 steel bridge and concrete canoe projects. The enthusiasm brought by the students was inspiring. ASCE-NH is proud to be sponsoring these students for their respective projects. Good luck to both project teams in the upcoming competitions!

Next month will mark the 65<sup>th</sup> annual celebration of Engineer's Week. The week will include an assortment of programs for engineers of today, engineers of tomorrow, and anyone interested in learning about the profession. Don't forget to plan ahead to participate in these programs for the best profession around!

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### Newsletter Editor

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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 10<sup>th</sup> of the month prior to publication.*

**Next deadline**  
**(For February 2015 issue):**  
**January 15, 2015**

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

Looking even further ahead, applications for the 2015-Outstanding Civil Engineering Achievement (OCEA) Award are now being accepted. Applications are due March 15, 2015. Please visit the ASCE-NH website for more information: [ascenh.org](http://ascenh.org).

Temperatures may be dropping, but things are only heating up for ASCE-NH! In closing I ask: two thousand fifteen or twenty fifteen? However you say it, HAPPY NEW YEAR EVERYONE!

*Nathan Cote, P.E. is a Geotechnical Engineer with S. W. Cole Engineering, Inc. He earned B.S. and M.S. degrees in Civil Engineering from the University of Maine. He lives in Dover, New Hampshire with his wife, Erin and daughter, Iris.*



## ASCE-NH VOLUNTEER REQUEST

The ASCE-NH Section is seeking volunteers to assist with the planning, development, communication, and promotion of the 2015-2016 New Hampshire Infrastructure Report Card Update. The Report Card is a critical tool used to convey to our citizens and legislators the current status of our infrastructure and the investment that is needed to maintain State's quality of life.

We are looking for engineers who have experience with Aviation, Bridges, Dams, Drinking Water, Energy, Hazardous Waste, Mass Transit, Parks & Recreation, Ports, Railroads, Roads, Schools, Solid Waste and Wastewater. No previous report card experience is required. Just bring your engineering experience and be ready to roll up your sleeves to work with a diverse and energetic team to provide a revised report card on the state of the New Hampshire's infrastructure. If you are interested in participating, please contact Darren Benoit, PE at [dbenoit@mjinc.com](mailto:dbenoit@mjinc.com) or (603) 225-2978.



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*Please join us for our second annual ski day!  
January 30<sup>th</sup>, 2015 at Waterville Valley*

*If you joined us last year then you know that this event cannot be missed. Once again the meeting cost will include a PDH, a ski ticket, a private lodge (Harpoon Brewery Sky Box), raffles, continental breakfast, full buffet lunch, and Après-ski appetizers to finish off the day! CMA Engineers, Inc., will be providing a lunch time presentation, details to follow. Visit [www.ascenh.org](http://www.ascenh.org) for further details and registration.*



*Harpoon Brewery Sky Box*

*Relax in a private, slopeside suite, conveniently located on the top floor of the base lodge with ski-in / ski-out access, flat screen TVs, private bar, couches, recliners, WiFi, gas fireplace and private bathroom, including a shower and changing area.*



## P.E. REFRESHER COURSE FOR CIVIL ENGINEERS

SPONSORED BY THE ENGINEERING EDUCATION COMMITTEE

### TENTATIVE DATES

STARTING January 13, 2015

LOCATION: NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION – CONCORD

The P.E. refresher course will be offered on Tuesday evenings from 6:00 p.m. to 8:00 p.m. beginning January 13, 2015 (tentative) and will run for 12 weeks. The course will focus mainly on problem solving and discussion in the following areas:

Transportation	Traffic
Hydraulics	Sanitary
Soil Mechanics	Structural Design
Construction Engineering	

The course will finish prior to the P.E. exam, providing additional time for individual review and preparation. The upcoming exam is scheduled for April 17, 2015. Visit the Joint Board of Licensure's website for exam

information and applications:

<http://www.state.nh.us/jtboard/home.htm>

The course book is the latest edition of the Civil Engineering Reference Manual from Professional Publications (14<sup>th</sup> Edition). NHASCE has setup an account with Professional Publications so the students can purchase their course books directly and get approximately 15% off at the following website.  
<http://www.ppipartner.com/SK876>

A complete schedule of all lectures and instructors will be available at the first session. Please submit your applications by January 9, 2015.

For further information, contact Michael Mozer, P.E. at (603) 391-3995, or [mmozer@vnhb.com](mailto:mmozer@vnhb.com)

### \* REGISTRATION FORM \* P.E. REFRESHER COURSE \*

\* April 2015 Exam \*

Name	Telephone No. (W) & (H)
Mailing Address	Fax No.
Mailing Address	E-mail Address
Company	*ASCE Membership No.

Course Fee:      ASCE Members - \$150.00 (Course Book Not Included)  
                      Non-Member - \$300.000 (Course Book Not Included)

Make checks payable to: **New Hampshire Section, ASCE**

Send registration form with fee to: **Michael Mozer, P.E.  
 Vanasse, Hangen, Brustlin, Inc.  
 2 Bedford Farms Drive, Suite 200  
 Bedford, NH 03110**

\*Your ASCE membership no. can be found on the address label on your issues of ASCE News or Civil Engineering magazine.



**Joint Maine Section  
ASCE & SEAM Meeting**  
Thursday, January 15, 2015

Duffy's Tavern & Grill  
4 Main Street  
Kennebunk, ME

RSVP By Monday,  
January 12, 2014

**Accelerated Bridge Construction Presentation**

Presented by Malek Al-Khatib of Louis Berger



On Veteran's Day Weekend in 2013, a 102-year-old, three-span bridge was retrofit with a new single-span superstructure and became the first transit MBTA structure to use ABC techniques. After a complete demolition in 12 hours, the new bridge, fabricated in panels and assembled in an adjacent yard, was moved into place by two SPMT units. Improvements included strengthening the existing substructure, increasing the clearance and opening up the sidewalks. The work, completed in a 56-hour window, was made possible by ABC techniques and cut construction by 10 months and cost by \$2 million.

**\*Dinner will be chosen at the door from a fabulous menu – please arrive prior to 5:45 so the staff can take your order.\***

**Schedule:**

4:30-5:30 Board Meeting (at Duffy's – all welcome)  
5:00-6:00 Registration & Social Hour  
6:00-7:00 Seated Dinner  
6:30-7:30 Presentation/Q&A

**Price:**

— \$35 ASCE Members before RSVP deadline  
— \$45 Non-Members and Members after RSVP deadline  
— \$20 Students, retirees, and unemployed members

*Make checks payable to: **Maine Section ASCE**  
We reserve the right to invoice no-shows*

Name: \_\_\_\_\_

Life Member: \_\_\_\_\_ Yes \_\_\_\_\_ No

Organization: \_\_\_\_\_

To register, or for more information, contact **Lynn Farrington**  
482 Congress Street, Suite 401, Portland, Maine 0410  
email: [LFarrington@LouisBerger.com](mailto:LFarrington@LouisBerger.com) fax: (207)842-2827 phone: (207)618-9131

## **CORPORATE SPONSOR OF THE MONTH**

What is a *Corporate Sponsor of the Month*? This could be YOUR company! For \$250.00, you will receive a 8" x ½" Front Page Banner Advertisement featuring your company. The ASCE-NH homepage will show your company logo, linked to your firm's homepage. In addition, a full page of our newsletter will be yours -- available for you to tell our readers anything you want about your company -- maybe you've recently acquired some new talent you want to boast about; or perhaps you just completed a very special project, or even reached a milestone anniversary year! The choice is yours - any topic that would be of interest to your colleagues in the engineering industry -- You may use the space for photos, narrative, whatever way you decide to put your company's name -- literally -- in the headlines!

December 2012	CDR Maguire
January 2013	GZA GeoEnvironmental, Inc.
February 2013	Fay, Spofford, & Thorndike
March 2013	Tighe & Bond
April 2013	International Erosion Control Systems, Inc.
May 2013	S.W. Cole Engineering, Inc.
June/July 2013	Nobis Engineering
August/September 2013	International Erosion Control Systems, Inc.
October, 2013	JTC, Inc.
November, 2013	VHB
December 2013	Fay, Spofford & Thorndike
January 2014	Hoyle, Tanner & Associates, Inc.
February 2014	Kleinfelder
March, 2014	ADS
April, 2014	Kleinfelder
May, 2014	Dubois & King
June/July 2014	TF Moran
August/September 2014	S.W. Cole Engineering, Inc.
October, 2014	Tighe & Bond
November, 2014	
December, 2014	Shea Concrete Products
January 2015	VHB
February 2015	To be announced
March 2015	<b><i>Reserved for YOUR company!</i></b>

**Thank you to our past Sponsors of the Month for showing support for the ASCE's New Hampshire Section! Please consider signing up for sponsorship of future editions of The New Hampshire Civil Engineer. Remember, all proceeds go directly to the Scholarship Fund!!**

**Now reserving space for March 2015 and beyond!**

**To reserve space or learn more, contact [fweaver@hoyletanner.com](mailto:fweaver@hoyletanner.com)!**

Of course, our regular classified advertising section is still available. See page 2 for more information.

**New Hampshire Engineering Societies  
2015 Engineer of the Year Award  
2015 Young Engineer of the Year Award**

We are pleased to announce the call for nominations for the Annual Engineer and Young Engineer of the Year Awards to be presented at the 2015 Engineers' Week Awards Banquet.

The Engineer of the Year Award and Young Engineer of the Year Award are the highest awards given to individuals by the New Hampshire Engineering Societies. Each award is presented to an engineer who has made outstanding contributions to the engineering profession, the public welfare, and humankind.

This award provides the New Hampshire engineering community the opportunity to recognize outstanding individuals worthy of these honors.

The following schedule summarizes the events leading to selection of the 2015 award recipients:

Friday, September 26, 2014	Select representative of your society to serve on the selection jury. Submit juror's name, address, e-mail address, and daytime phone number to the person named below.
Wednesday, January 21, 2015	Submit electronic (pdf) copies of the application packages for EOY/YEOY candidates <b><u>by Close of Business</u></b> .
Thursday, January 22, 2015	Application packages will be distributed electronically to all jurors for review.
Tuesday, January 27, 2015	Jury meets. Tentative time and location is 3:30 PM at Terracon, 77 Sundial Avenue, Manchester, NH.
Thursday, February 26, 2015	Engineers' Week Awards Banquet

All submittals shall be directed to:

Lawrence Dwyer, P.E.  
Terracon Consultants, Inc.  
77 Sundial Avenue, Suite 401W  
Manchester, NH 03103

(603) 206. 1115 (work)  
e-mail: [ljdwyer@terracon.com](mailto:ljdwyer@terracon.com)



**New Hampshire Engineering Societies  
2015 Engineer of the Year Award  
2015 Young Engineer of the Year Award**

**Qualifications/Method of Nomination:** All engineers are eligible for nomination, provided they are members in good standing of their engineering society, are citizens of the United States, and are licensed professional engineers (P.E.) in the State of New Hampshire or Engineers-in-Training (E.I.T). Candidates for the Young Engineer of the Year Award shall be 35 years of age or younger on December 31, 2014.

The nominee should not be informed of being considered for an award. All nominations not selected for an award shall remain anonymous and the candidate shall not be informed of their nomination.

**Eligibility Requirements:**

Engineer of the Year:

1. Member in good standing of his or her engineering society.
2. Citizen of the United States.
3. Licensed professional engineer in the State of New Hampshire or E.I.T.

Young Engineer of the Year:

1. Member in good standing of his or her engineering society.
2. Citizen of the United States.
3. 35 years of age or younger on December 31, 2014.

**Nomination Format:** Applications should be prepared without participation of the nominee in any way. There is no prescribed form to be completed; however, the nomination package must contain the following sections:

- A. Statement of Nomination.
- B. Statements of Recommendation (minimum of 2).
- C. Biographical Information.

Please refer to Guidelines for the Application Package (attached).

An electronic (pdf) copy of the nomination package shall be submitted to:

Lawrence Dwyer, P.E.  
Terracon Consultants, Inc.  
77 Sundial Avenue, Suite 401W  
Manchester, NH 03103  
(603) 206. 1115 (work)  
e-mail: [ljdwyer@terracon.com](mailto:ljdwyer@terracon.com)

**Selection:** A jury which may include up to one representative from each engineering society will select the candidates to be recognized as the Engineer of the Year and Young Engineer of the Year.

**New Hampshire Engineering Societies  
2015 Engineer of the Year Award  
2015 Young Engineer of the Year Award**

**Guidelines for the Application Package**

**A. Statement of Nomination:**

The nominating person(s) shall prepare a typed statement supporting the selected candidate for consideration for the Engineer or Young Engineer of the Year Award. The nominating statement shall be signed and dated by the nominating person.

**B. Statements of Recommendation:**

Statements or letters shall be written by a minimum of two engineers, knowledgeable of the candidate's achievements and characteristics worthy of consideration to support the nomination. These statements shall be written to provide a concise picture of the candidate as an outstanding engineer and citizen and shall be signed and dated by the author.

**C. Biographical Information:**

Required information for each nominee:

Name, Title, Address, Home and Business Phone Numbers

Employer (or related work experience)

Date of Birth (required for consideration for Young Engineer of the Year only).

The biography should cover, but need not be limited to, the following items:

- ☐ Education, including continued education;
- ☐ Licenses held (licensure not required);
- ☐ Memberships in both technical and non-technical organizations;
- ☐ Industrial experience;
- ☐ Engineering experience;
- ☐ Engineering research and development experience;
- ☐ Technical and non-technical papers authored;
- ☐ Patents held;
- ☐ Service to the profession;
- ☐ Service to the community and for the benefit of humankind;
- ☐ Honors or awards bestowed (technical, professional, governmental, educational, and civic);
- ☐ Unusual assignments;
- ☐ The individual and his/her family; and
- ☐ Support of, and participation in, unusual or interesting activities

The above items are to be included in the biography as they apply and should provide a clear portrait of the candidate as an outstanding engineer who has exhibited exemplary behavior in his/her interactions with society and the environment.

# Cranium Challenge

## January 2015

Congratulations to everyone who successfully solved the November challenge!

Josh Bouchard, PE	<i>CMA Engineers</i>
Darren Benoit, PE	<i>McFarland Johnson</i>
Roger Berry	
Timothy Dunn	<i>NH Department of Transportation</i>
Hank Parker	
John Scott	
Bruce Thomas, PE	<i>Manchester DPW</i>
Carl Thunberg, PE	<i>Terracon</i>

### The answer for the November challenge:

We received a lot of submissions on this one. Most tried the infinite series approach – calculating each change in the distance separating the boats each time the seagull had to make another trip between them – and came close. It's actually much easier than that. First, take the relative speed of the two boats and determine how long it will take for them to cover the 5 nautical mile distance between them (a knot is 1 nautical mile per hour). Then determine how far the seagull would travel in that period of time, given its constant speed of 18 knots. You'll find that the seagull travelled 4.5 nautical miles.

$$v_{boats} = v_1 + v_2 = 10\text{kn} + 10\text{kn} = 20\frac{\text{NM}}{\text{hr}}$$

$$t = \frac{d_{boats}}{v_{boats}} = \frac{5\text{NM}}{20\frac{\text{NM}}{\text{hr}}} = 0.25\text{hr}$$

$$d_{seagull} = t \times v_{seagull} = 0.25\text{hr} \times 18\frac{\text{NM}}{\text{hr}} = 4.50\text{ NM}$$

### The January Puzzle is as follows:

This one appeared as a bonus question on a number of final exams over the years courtesy of a certain Professor of Civil Engineering at UNH. I'm sure we have some alumni out there that will recognize it:

***You are sitting in a canoe in a small, above-ground pool. In the canoe is a solid concrete block.  
You toss the block overboard, into the water. What happens to the water level of the pool?***

Send your solutions to Justin Lowe, University of New Hampshire, Kingsbury Hall Room W220, 33 Academic Way, Durham, NH 03824, or by email to [Justin.Lowe@unh.edu](mailto:Justin.Lowe@unh.edu). Correct responses received by **February 10, 2015** will be recognized in a future issue of "The New Hampshire Civil Engineer".

## It's January 2015! . . . Renew your ASCE Membership!

It's January 2015! Did you renew your ASCE membership yet? . . . . Here are a few ways **HOW** to renew:

1. **Online** at: [www.asce.org/renewal](http://www.asce.org/renewal).
2. **Mail** in your 2015 renewal form to Membership Department:  
P.O. Box 79084, Baltimore, MD 21279.
3. **Call** ASCE's Customer Service at: (800) 548-ASCE (2723) or (703) 295-6300  
between 9:00 a.m. – 6:00 p.m., E.T., Monday - Friday.

It's January 2015! Did you renew your ASCE membership yet? . . . . Here are a few reasons **WHY** to renew:

<b>FREE Institutes:</b>	Stay informed of discipline specific information by joining one (of eight) free ASCE Institute.
<b>Five FREE PDHs a Year:</b>	Participate in up to five technical or professional on-demand webinars annually and earn PDHs for each one you complete - at no cost. Visit <a href="http://www.asce.org/freePDH">www.asce.org/freePDH</a> for more information.
<b>News and Information:</b>	Keep up to date on industry news, the Society's programs, people, and events, and read about civil engineering's most innovative projects with <i>ASCE SmartBrief</i> , the print and online version of the <i>Civil Engineering</i> magazine, and our <i>Civil Engineering</i> magazine mobile application.
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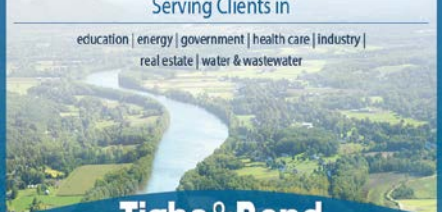


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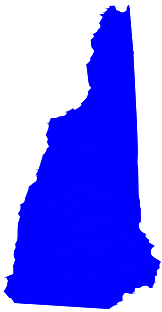


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