Many thanks to VHB, our JANUARY SPONSOR OF THE MONTH!

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 65th 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!

Continued page 2
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.

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 dboiit@mjinc.com or (603) 225-2978.
Serving New Hampshire for 35 years

VHB's innovative roadway, traffic, environmental, land development, and structural professionals deliver solutions that help businesses and communities thrive together.

www.vhb.com
2 Bedford Farms Drive, Suite 200
Bedford, NH 03110 | 603.391.3900
Please join us for our second annual ski day!
January 30th, 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 (14th 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.pppartner.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@vhb.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 - $300.00 (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

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 retrofitted 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 04103
email: LFarrington@LouisBerger.com  Fax: (207)842-2827  phone: (207)618-9131
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
January 2013
February 2013
March 2013
April 2013
May 2013
June/July 2013
August/September 2013
October, 2013
November, 2013
December 2013
January 2014
February 2014
March, 2014
April, 2014
May, 2014
June/July 2014
August/September 2014
October, 2014
November, 2014
December, 2014
January 2015
February 2015
March 2015

Reserved for YOUR company!

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!

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 by Close of Business.

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
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: lhdwyer@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.
Congratulations to everyone who successfully solved the November challenge!

Josh Bouchard, PE  
CMA Engineers

Darren Benoit, PE  
McFarland Johnson

Roger Berry

Timothy Dunn  
NH Department of Transportation

Hank Parker

John Scott

Bruce Thomas, PE  
Manchester DPW

Carl Thunberg, PE  
Terracon

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.

\[
v_{\text{boats}} = v_1 + v_2 = 10 \text{kn} + 10 \text{kn} = 20 \text{NM/hr}
\]

\[
t = \frac{d_{\text{boats}}}{v_{\text{boats}}} = \frac{5 \text{NM}}{20 \text{NM/hr}} = 0.25 \text{hr}
\]

\[
d_{\text{seagull}} = t \times v_{\text{seagull}} = 0.25 \text{hr} \times 18 \text{NM/hr} = 4.50 \text{ NM}
\]

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?
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:

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:

**FREE Institutes:** Stay informed of discipline specific information by joining one (of eight) free ASCE Institute.

**Five FREE PDHs a Year:** Participate in up to five technical or professional on-demand webinars annually and earn PDHs for each one you complete - at no cost. Visit [www.asce.org/freePDH](http://www.asce.org/freePDH) for more information.

**News and Information:** Keep up to date on industry news, the Society’s programs, people, and events, and read about civil engineering’s most innovative projects with ASCE *SmartBrief*, the print and online version of the *Civil Engineering* magazine, and our *Civil Engineering* magazine mobile application.

**myLearning:** Automatically track your PDHs/CEUs, obtain certificates of completion, and identify the right programs for your professional success. Maintain a listing of your license renewal requirements to meet your education needs.

**CLASSIFIED ADVERTISEMENTS**

Have a job posting you’d like to publish?

Contact Fran Weaver, Newsletter Editor at [fweaver@hoyletanner.com](mailto:fweaver@hoyletanner.com)

Only $15.00 per column inch prints your ad in color in our electronic newsletter and in black & white in our print edition.

Also included at no additional cost is a link to your classified ad under the “Careers” tab on our website.


**NEW – NEW – NEW**

Get your classified ad posted to the “Careers” tab without the accompanying printed ad. E-mail your posting to [fweaver@hoyletanner.com](mailto:fweaver@hoyletanner.com) and request the “WEBSITE ONLY” Classified rate of $50.00
Reserved for YOUR Company!

Only $16.50 per Month for Business Card Sponsorship

The ASCE NH Section thanks our many sponsors for their continuing support!
Planning Calendar

Stay Tuned for Information on other upcoming events and meetings

Visit the ASCE-NH Website (www.ascenh.org) for up to date details for upcoming meetings and events.

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

Contact Nate Cote (Nate.Cote@swcole.com) for details on upcoming meetings.