

The New Hampshire *Civil Engineer*

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

VOL. 36 No. 02

February 2015

Sponsor of the Month will return in March

PRESIDENT'S MESSAGE

Greetings, Fellow Engineers!



February is a special month for engineers being home of Engineers Week. E-week is slotted for February 22 through 28, 2015 and what a week it will be! Don't miss the educational sessions, the exhibition, or the awards banquet scheduled for: Thursday, February 26, 2015 at the SERESC Conference Center in Bedford! Please see the e-week announcement for more information. Also, be sure to check out the other programs offered during e-

week at: <http://www.eweek.org/Home.aspx>.

So, why did you become an engineer??? Considering this month includes e-week, I have been reminiscing on why I became an engineer.

Looking back at my childhood and right up to present day I can think of several instances that influenced my decision to become an engineer. For me, it all started with Kindergarten-Class of '91. The class was tasked with dressing up for Career Day. Your costume was to resemble what you wanted to be when you grew up. My parents aided me in an engineering-costume equipped with shirt & tie and briefcase in hand. Little did I know, not all engineers wear a tie to work. Regardless of attire, I was on-track to become an engineer and the kid beside me, a school bus driver. As I grew older, I tagged along with my father who constructed residential homes and pursued a career as a design-engineer. Seeing homes built by my main mentor grew my interest in construction. As a design-engineer, problems were solved with an innovative approach – something I always admired.

I would be remiss to say that instances influencing my decision to become an engineer ended with childhood. Continuing my journey at the University of Maine, I was surrounded by a mass of mentors: classmates and professors who instilled engineering as the career for me! Following a Bachelor's Degree, I joined the workforce at S.W.COLE. Burning the midnight oil, I simultaneously pursued a Master's Degree with focus on geotechnical engineering. It was the exciting projects I worked at S.W.COLE and an influential Professor: Thomas C. Sandford, P.E. that "sealed the deal." I would be an engineer.

Continued page 2

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Details on website.

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

Next deadline
(For March 2015 issue):
February 15, 2015

Newsletter Publisher
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Concord, New Hampshire

Today, I find myself surrounded by a new mass of mentors at ASCE-NH. It is a humbling experience serving with the New Hampshire Section's Board of Directors and the many volunteers who contribute their time and talents to the organization. I have learned so much through participation at ASCE-NH and I am beyond grateful to all the members who have made it such a great experience. For those of you who are considering becoming involved in ASCE-NH, don't wait another minute! You won't regret it!

So, I don't wear a tie every day, but I do remember why I became an engineer. It was a journey from childhood to present day. Although a little older now, I still like to think of myself as the big kid in the sand box, an ENGINEER!

So, why did you become an engineer??? Happy e-week, 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 or (603) 225-2978.



FEBRUARY 22-28, 2015
64th Annual Engineers Week
Awards Banquet
& Exhibition

Thursday, February 26, 2015
 SERESC Conference Center
 29 Commerce Drive
 Bedford, New Hampshire

AGENDA

Educational Sessions – (three PDHs)

2:00-3:00 pm History of the Cog Railway
 3:00-4:00 Jetboil Technology
 4:00-5:00 Siting Energy Projects in the
 WMNF

Cost: \$50.00 per person
Student Rate: \$20.00 per person

Exhibition & Awards Banquet

2:00 to 4:30 Exhibit set-up
 4:30 to 6:15 Exhibits Open/Social hour
 (Cash bar & Hors d'Oeuvres)
 6:15 to 7:45 Dinner
 6:15 to 7:00 Presentation of Awards
 7:45 to 8:30 Keynote Speaker

Cost: \$50.00 per person
Student Rate: \$30.00 per person

February 26, 2015
Registrations are Open!

National Engineers Week (E-Week) is celebrated around the country every year in February to commemorate the birth of engineering, *beginning with the first US engineer and President, George Washington*. This year our Annual Awards Banquet will be held at the **SERESC Conference Center** - 29 Commerce Drive in Bedford, NH. On behalf of the New Hampshire Society of Professional Engineers (NHSPE) and the New Hampshire Joint Engineering Societies (NHJES), we invite you to join us for casual evening with friends and colleagues to honor scholarship recipients, Engineer of the Year and Young Engineer of the Year.

In celebrating 64 years of National Engineers Week, there will be an afternoon of educational sessions with special guest speakers for 3 Professional Development Hours (PDHs) for our Engineering Professionals.

In addition, this year we are pleased to have as our keynote speaker, New Hampshire's own, **Mr. Randy Pierce**. Randy is an extraordinary man, who later in life lost his eyesight and turned his life changing event into an inspirational journey, as president of 2020 Vision Quest. His original vocation as an electrical engineer helped him turn the challenges he faced into success stories. Randy is being recognized by the UNH Alumni Association as their choice for the 2014 Award of Excellence for Outstanding Achievement. We invite you hear his inspirational outlook on life and his amazing quest to climb all 48 NH peaks that rise above 4,000 feet. Visit the 2020 Vision Quest website and learn more about Randy's mission: www.2020visionquest.org

If you have questions about the event or wish to sponsor and/or participate as an Exhibitor, please contact Shelley Rand by email at Admin@nhspe.org

For More information on National Engineers Week and the National Engineers Week Foundation, visit <http://www.eweek.org/Home.aspx>. NSPE is the Foundation Secretariat and initiated National Engineers Week in 1951. NHSPE is the State Society of NSPE.

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

P.O. Box 4953 Manchester, New Hampshire 03108



**NH Section ASCE S. Russell Stearns
Scholarship Program Application**

INSTRUCTIONS: Please fill in all the information requested below. Type or print clearly.

- ☐ Attach statements describing your employment, activities, honors and career goals
- ☐ Letters of recommendation from two (2) Civil Engineering Department Faculty members should be forwarded to the ASCE Student Chapter Advisor.
- ☐ A letter from the Civil Engineering Department Head certifying your status and eligibility for the award.

GENERAL:

Name _____

Permanent Mailing Address _____

Telephone Number _____ Social Security _____

Email Address _____

Current Student Status: Sophomore _____ Junior _____ Senior _____
(Check One)

Cumulative GPA: _____

Letters of Recommendations forwarded from: _____

EMPLOYMENT: Using a separate sheet, list jobs, i.e. full time, part time, work study, co-op, etc. that you have held since your senior year in high school.

ASCE New Hampshire High School Scholarships

Introduction

In November of 2000, the New Hampshire section of the American Society of Civil Engineers created a scholarship to aid a New Hampshire high school student in their pursuit of an engineering education. In addition, it is the hope of NH-ASCE to increase the awareness of the civil engineering profession for high school students in the state of New Hampshire. This year, up to six (6) scholarships will be granted.

The Award

The top applicants will each receive a scholarship ranging from \$1,000-\$1,500 to aid them in their pursuit of an undergraduate degree in engineering. Award winners will be based on receipt of all completed application materials and, in the opinion of the judges, the most compelling essay. The scholarship winners, and their families, will be the guests of NH-ASCE at the annual dinner meeting held in June of each year. During the meeting the awards will be presented to the students.

In addition to the scholarship award, each NH-ASCE High School Scholarship winner may have the opportunity to communicate with a civil engineering professional mentor during their first year of college.

Requirements

A student must be a resident of the State of New Hampshire and be a current senior in a New Hampshire high school. The student must have applied to and been accepted by a four-year engineering program.

Application Process

The applicant must submit the following information:

- A filled-in NH-ASCE High School Scholarship form (see below)
- A copy of their high school transcript
- One letter of reference from a teacher or a registered civil engineer. The reference letter should be in a sealed envelope with the name and signature of the reference on the outside of the envelope
- A two page essay on the NH-ASCE High School Scholarship Topic (see below)

Application Deadline: postmarked by Friday, April 17, 2015

More Information: contact Fred L. Douglas, PE via e-mail fdouglas@comcast.net

NH-ASCE High School Scholarship Topic for the student essay

The essay topic for this year is: "How Does Civil Engineering Impact my Daily Life?"

The format for the essay is:

- A maximum of two pages, doubled spaced using a 12 pt font
- The student's name, address, e-mail address (if available) and high school should be included on the first page along with the title of the essay

NH-ASCE High School Scholarship Form

Student's Name: _____

Address: _____

Phone Number: _____ e-mail: _____

High School Name: _____

High School City: _____

Class Ranking: _____ out of _____

Colleges to which
you have been
accepted: _____

Reference Name: _____

Address: _____

If your reference is a registered civil engineer add the following information:

Company: _____

PE Registration No: _____

PE Registration State: _____

Send this form along with a copy of your high school transcript, your essay and the reference letter to the following address, postmarked by Friday, April 17, 2015:

**NH-ASCE High School Scholarship
American Society of Civil Engineers - New Hampshire Section
P.O. Box 4953
Manchester, NH 03108**

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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!

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November, 2014	
December, 2014	Shea Concrete Products
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February 2015	
March 2015	To be announced!

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 April 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.

Cranium Challenge

February 2015

Only one person successfully solved the December challenge!

Jason Barnes

Southern New Hampshire University

The answer for the December challenge:

You're guaranteed that each fuse will burn for two minutes total, so if you light one of the fuses from *both* ends, it will burn in half the time – one minute. Call this one-minute fuse "A". If you light a second fuse, "B", on one end at the same time you light both ends of "A", and then light the unlit end of "B" when "A" burns up, you'll have your 1 minute, 30-second fuse.

The February Puzzle is as follows:

At the local hardware store, you can buy widgets in three different-sized packs: six widgets, nine widgets, and twenty widgets (which offers the best price-per-widget, obviously). What is the *largest* number of widgets you *cannot* purchase by combining different packages?

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. Correct responses received by **April 10, 2015** will be recognized in a future issue of "The New Hampshire Civil Engineer".

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Get your classified ad posted to the "Careers" tab without the accompanying printed ad.

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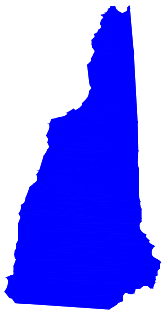
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Planning Calendar

February 26, 2015

Engineer's Week Banquet

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.