



THE OBSERVER

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A WORD FROM THE PRESIDENT

By: Theodore T. Setas, PE
NHSPE President

With the summer of 2013 arriving, as well as the induction of a new Board of Directors, I wanted to take this opportunity to recognize some of the individuals whose dedication has made this past year eventful and prosperous. For Engineer's Week, I would like to commend Lawrence Dwyer, Jason Beaudet, Craig Bailey, Martha Mitchell, and Shelley Rand for their superior efforts pulling together Engineer's Week Banquet. (Continued on Page 3)

INSIDE

A Word From the President	1,3
Engineer's Week Annual Banquet	1,2,3
VSPE/NHSPE Annual Joint Meeting	1
NHSPE Meetings	4
Ten Great Reasons to Join NHSPE	5
S.T.E.M Excellence in Teaching Awards	6
Save the Date NHJES Conference	7

Engineer's Week Annual Banquet

Engineers across the state of New Hampshire gathered and celebrated the 62nd Annual Engineers Week, not coincidentally with the week of George Washington's Birthday, dubbed our nation's first engineer. What better way to honor our profession and the man who inspired invention and progress. For the first time in our recent history, the event was held at a brand new venue catering to non-profit societies like our own – SERESC in Bedford; who says engineers don't embrace change?

The day began with an afternoon of continuing educational sessions, followed by the engineering trade show and social, presentation of the engineering award winners, a wonderful dinner and keynote speaker. The event was attended by almost 200 engineers, students and faculty from UNH and NHTI, and guests. Seven New Hampshire Chapter engineering societies (ACEC, ASME, ASCE, IEEE, SENH, NSPE, and NHITE)

and 25 engineering firms and vendors sponsored the festivities to make it a successful event. Needless to say, without all of your support, this banquet would be extremely difficult to pull off; I salute you all.

The continuing education sessions were varied, interesting, and very informative. The first presentation was by Dr. Tzu Yang Yu who presented on new technology being developed at the University of Massachusetts, Lowell involving remote sensing of bridge defects using imaging radar. Dr. Yu is an Assistant Professor in the Department of Civil and Environmental Engineering leading the research for the USDOT. Prof. Ricardo Medina, from the UNH Department of Civil Engineering then discussed the impacts that occurred and still remain in Japan as a result of the March 2011 Tohoku Earthquake. The pictures documenting the devastation Professor Medina presented. (Continued on Page 2)

VSPE/NHSPE Annual Joint Meeting

The VSPE/NHSPE Annual Joint Meeting will be held on **Wednesday, June 26, 2013** from 5:30-8:30 p.m. at the Quechee Inn at Marshland Farm, Main Street, Quechee, VT. Harve Hnatiuk, P.E., F.NSPE Vice-President NSPE will induct the 2013-2014 Vermont and New Hampshire Officers. Visit <http://nhspe.org/events/files/2013%20Joint%20Meeting%20Notice.pdf> for more

information or contact Jason Booth at jbooth@aeengineers.com or at (802) 879-7733.

Cost is \$45 per person. Dinner selections as follows: Crab cakes with smoked chipotle and citrus remoulade; black pepper top sirloin with jack daniels bourbon cream sauce; or butternut squash ravioli with cracked pepper cream.

Engineer's Week Annual Banquet (Continued from Page 1)

sented were incredible, but the truly remarkable aspect was that his pictures were taken over 1 year after the event. Lastly, Les Chernauskas, P.E., of GTR in Chelmsford MA, presented a case study on the use and design of fin piles for marine projects such as piers, dolphins, and oil drilling structures where uplift and lateral loads govern. The added capacity at the pile tip by the use of fins allow significantly shorter piles and lower costs.

After the educational sessions, it was time to greet our exhibitors, dig into the appetizers, imbibe in one or more of your favorite beverage, and mingle with friends and associates. The exhibitor and social portion of the banquet is always a favorite, and unfortunately it usually ends too soon to allow for the some relaxing around the dinner tables. Welcoming words and emcee duties were provided by Larry Dwyer, P.E. of NHSPE.

Consistent with the past 48 years, we recognized not only the past engineering award winners in the audience but two more NHengineers among our profession. This year the Young Engineer of the Year for 2013 was awarded to Britt Audet, P.E. The Engineer of Year for 2013 was awarded to Chris Bean, P.E. The winners were selected by a panel of their peers nominated by each of the 10 professional societies. The past award winners were called to action to congratulate, welcome, and present the awards to Britt and Chris. Both were recognized for their passion to their profession and community and technical achievements.

Also recognized this year was the 2012 New Hampshire Mathcounts champion, Ria Das along with her

father, Souripriya Das. Ria was a 7th grade student from Nashua when she won last year. As a footnote, the 2013 NH State Mathcounts event just occurred on March 9, 2013 and guess who will be representing the State of New Hampshire again? Ria Das. Congratulations Ria, we hope to see you at next year's Engineer's Banquet. Lastly, we recognized another champion of Mathcounts, Ben Pratt, P.E. Ben celebrated 30 continuous years of organizing both regional and state level Mathcounts events. Ben is truly an example of what it means to give back. It is directly due to his tireless efforts that the State Mathcounts competition has been an annual success for 30 years.

The evening finished with a presentation by Jim Rautio, P.E. of Sonnet Software in Liverpool, NY. Jim spoke about the fate of Maxwell's Equations at the hands of four of his protégés. It was not only educational, but Jim told a story of the personalities and how their attitudes affected how they interpreted what turned out to be modern electromagnetic wave theory. The presentation described the torturous 23 year path Maxwell's equations took from their creation to their initial acceptance.

The planning process now begins for next year's event. We welcome your ideas and specifically thoughts about who the next keynote speaker could be, as well as potential educational session presenters. We also need people like you to call any of the NHSPE Board Members and offer your organizational skills and help continue to make this annual event a memorable one. Thanks again to all those who attended, our exhibitors, and sponsors of E-Week 2013. *Submitted by Larry Dwyer, PE*

THE OBSERVER

The Observer is published quarterly by the New Hampshire Society of Professional Engineers for its members. Its purpose is to inform members of NHSPE activities and related topics.

Address all correspondence to the Editor:
Theodore Setas, P.E.
c/o Jacobs Engineering Group, Inc.
Two Executive Drive
Bedford, NH 03110
(603) 289-4947 Phone
Ted.setas@Jacobs.com

Word from President

(Continued from Page 1)

uet and E-Week events. For Mathcounts, Ben Pratt who has been leading the charge for 30 years and Greg Comstock who has also been involved for as long as I can remember.

Thank you to Peter King and Matt Low for leading up the Scholarships and Teacher's Awards, respectively. I would also like to thank Roch Larochelle for his guidance and to Corey Dietrich for his efforts as Membership Chair. A special thank you is fitting for Dan Hudson and Josh Bouchard who will be stepping down after this summer. Dan has been Treasurer since 2009 and Josh has been Website Coordinator since 2008. Thank you fellas – you'll be missed. Most of all, a special thank you to all the current board members not already mentioned. You have all made this a most gratifying experience for me in the past year as President.

I would like to this finish my "President's Message" with one thought: The Boy Scouts have a motto: "**Be Prepared**". I have a motto that I would like to suggest: "**Get Involved**". With the unique challenges facing the profession now and in years to come, it is all the more important that engineers use their expertise to help inform the public of the importance and value of the engineering profession. This can be accomplished in many ways and through many avenues; however, in my opinion, one of the best is through becoming involved through NHSPE. We are always looking for willing and able volunteers to help tackle these challenges on a local and national level. We also welcome any recommendations you may have. Thank you and have a great summer!

Submitted by Ted Setas, PE

Engineer's Week



NHSPE Meetings

On Wednesday, March 27, 2013 the NHSPE meeting at the Puritan Convention Center in Manchester, featured guest speaker, Michael Castagna, President of Castagna Consulting Group, LLC, who presented to an audience of approximately 20 a discussion on various types of Procurement Methods including Design-Build and Construction Management General Contractor (CMGC), a type of project delivery method that is new to the Northeast region. Mr. Castagna also discussed ways to manage projects in remote locations.

The Annual New PE Dinner on May 8, 2013 took place at Fratello's Restaurant in Manchester and featured Young Engineer of the Year, Britt Audet of CMA Engineers, and Engineer of the Year, Christopher Bean of CLD Consulting Engineers. Marge Bessette of WZID announced the 12 new professional engineers in attendance who were then presented a certificate of accomplishment by several members of the Joint Board of Licensure. Britt presented a PowerPoint Presentation and shared some of the statistics related to the challenging road to success for young women engineers. Chris followed with a presentation on the Engineer's Code of Ethics and some of today's challenges.

New Hampshire's New PE's



Ten Great Reasons to Join NSPE

1. Champion for Professional Licensure: Promoting the PE license and protecting the professional engineer title have been top priorities for NSPE for more than 60 years. NSPE is widely known for challenging attempts by companies and other organizations to encroach on or restrict the practice of engineering. When necessary, NSPE has taken engineers' causes to court, the state house, and Congress. Products such as NSPE's comprehensive Engineering Licensure Laws: A State-by-State Summary and Analysis are available to members at significant discounts.

2. Enhancing the Profession's Image: NSPE founded National Engineers Week in 1951 and by partnering with other societies and industry has built it into the most popular, annual celebration of engineering in the country. Throughout the year, NSPE spotlights professional achievements through prestigious award programs, special events, and outreach activities that receive wide media coverage.

3. Strong Voice With Lawmakers: NSPE and its state societies influence lawmakers responsible for enacting engineering-related legislation at both the local and national levels. The nonpartisan Political Action Committee of NSPE (NSPE-PAC) raises funds from NSPE members to contribute to candidates for federal office who will act in the best interests of PEs.

4. Continuing Education, Professional Development: NSPE offers an extensive array of educational offerings at significant discounts for members, including Professional Edge education sessions, video- and workbook-based continuing education programs, and refresher courses for the Fundamentals of Engineering exam and the Principles and Practice of Engineering exam. It's even possible to earn a master's degree by enrolling in NTU courses from the fully accredited National Technological University.

5. The Latest Professional News: NSPE members stay ahead of the curve by reading Engineering Times, published 11 times per year, with the latest professional news and features. Members also get a weekly window on the U.S. engineering press as a whole through NSPE's on-line U.S. Engineering Press Review, which also can be delivered directly to members' homes or offices via US-EPR's free e-mail service. The monthly "NSPE Update" all-member e-mail provides news briefs on NSPE lobbying, programs, and member benefits.

6. Upholding High Ethical Standards: NSPE's highly respected Engineers' Code of Ethics has served for decades as the standard by which engineers measure their ethical performance of professional duties. Engineers faced with difficult decisions often turn to NSPE's Board of Ethical Review for helpful advice. NSPE also promotes the teaching of ethics and non-discrimination through its award-winning, educational videotapes and instruction kits.

7. PEs' On-Line Connection-www.nspe.org: NSPE's Web site, www.nspe.org, is the premier place to go for professional engineering news and information. The site offers searchable NSPE salary survey data; employment opportunities; downloadable engineering licensure law summaries; contract document sets available for immediate download; and steep discounts for members in the online Professional Resource Catalog. The Members-Only section gives you free access to the federal Commerce Business Daily; legal, career, and ethics advice; writing tips; CAD trends; PE exam test-taking pointers; and other helpful services. A search engine lets users enter key words to find specific information about licensing, job opportunities, state society scholarships, and more.

8. Practice Divisions: The Professional Spectrum: With NSPE's five practice divisions, busy engineers have access to customized information, products, and services in given area of practice—construction, industry, government, education, and private practice. Information from each of the divisions is shared in a special section of NSPE's flagship publication, Engineering Times.

9. Providing Strong Community Support: Every year, thousands of NSPE volunteers coach seventh- and eighth-grade "mathletes" nationwide and help them build their math skills. Exciting MATH-COUNTS team and individual competitions culminate with a national event in Washington, D.C. For older, deserving young men and women, hundreds of NSPE state society scholarships pitch in for engineering education.

10. Networking To Last a Lifetime: NSPE membership brings engineers from all disciplines together to serve the public and enhance the image of the profession. Members are encouraged to network with peers to build social and business contacts that will last a lifetime. Annual membership meetings, leadership forums, and other NSPE member events held across the country offer opportunities to help shape the future of engineering as well as gain crucial insights into significant employment trends.

2013 Joint Committee of Engineering Societies S.T.E.M Excellence in Teaching Awards

NHSPE is pleased to announce that this spring an extremely deserving individual was awarded by the NH Joint Committee of Engineering Societies with the S.T.E.M. Excellence in Teaching Award at the Middle School level. The Joint Committee was comprised of NHSPE, ASCE-NH, SENH, ITE-NH, IEEE-NH, ACEC-NH, SWE-NH, as well as the University of New Hampshire College of Engineering and Physical Sciences, the NH Teachers of Mathematics and the NH Science Teachers Association.

Applications were received from December to April, and the winner was notified in June after review by the committee. We will have the distinct pleasure of

visiting the teacher in their school environment to present their award to them in front of their colleagues and students. The winner this year is as follows:

Middle School

Debra Page, Milford Middle School, Milford

The winner will be presented with a plaque and \$250.00 stipend. We are very excited about this program going forward, and hope to build on the success in 2014.

Submitted by Peter King, PE



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Save the Date — NHJES Conference



SAVE THE DATE!

The NH Joint Engineering Societies 7th Annual Conference
 Thursday, October 10th 2013
 SERESC Conference Center, Bedford NH
 Theme: Tools of the Trade
 Continuing Education Credit: 6 PDH



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NHJES Volunteers Needed

Conference Committee: Co-Chair / Chair

- Lead Planning Activities
- 2 Year Commitment

Conference Committee: Members

- Contribute in Topic / Speaker Selection
- Contribute in Sponsor Selection / Contact

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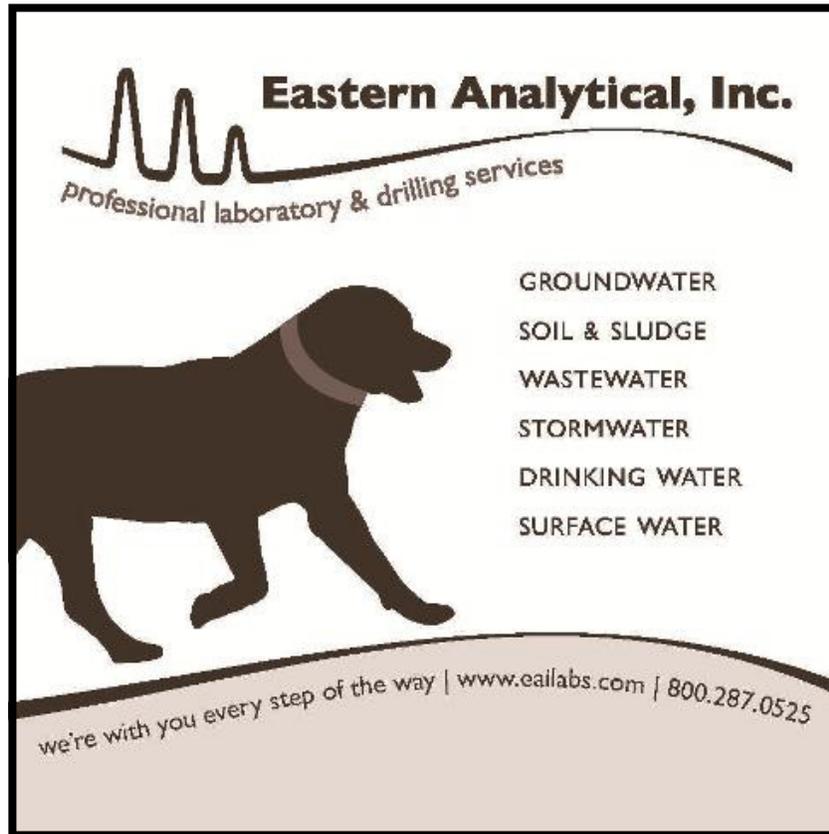
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gcomstock@des.nh.gov

STATE DIRECTOR

Joshua Bouchard, PE
(603) 627-0708
jbouchard@cmaengineers.com

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(603) 493-9250
tlotterhand@gmail.com

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