



# THE OBSERVER

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## A WORD FROM THE PRESIDENT

By: Theodore T. Setas, PE  
NHSPE President

Congratulations to the 2013 Engineer of the Year Christopher Bean, P.E. and Young Engineer of the Year Award winner Britt Audet, P.E. from the NHSPE Board Members. Both candidates are well deserving of the awards.

With Engineers Week 2013 around the corner and the presentation of the Young Engineer of the Year Award, I felt it would be appropriate to discuss in this month's message a poll  
(Continued on Page 3)

## Engineer's Week Annual Banquet SERESC Conference Center 29 Commerce Drive, Bedford, NH

This week, Engineers across the State of New Hampshire will be celebrating the 62<sup>nd</sup> Annual Engineer's Week. Our Annual E-Week Banquet is scheduled for **Thursday, February 21, 2013**, a full afternoon/evening of activities to make this an event you won't want to miss.

Three, 1-hour outstanding afternoon educational seminars are being offered along with PDHs, beginning at 2 p.m. and ending just in time to enjoy the social gathering and exhibitors. The first seminar is "*Multi-Modal Remote Sensing System (MRSS) for Bridge Inspection and Monitoring*", presented by Professor Tzu Yang Yu (Department of Civil and Environmental Engineering - University of Massachusetts, Lowell).

Managing the growing population of deteriorated bridges and being able to accurately inspect them in a timely and cost effective manner is a major challenge. This presentation will talk about an MRSS, which is an automated, low-cost, efficient bridge inspection technique for interrogating critical bridge components.

The second seminar will be "*Lessons Learned from the Japan Earthquake*", presented by Professor Ricardo Medina (Department of Civil Engineering - University of New Hampshire, Durham). The moment magnitude 9.0 Japan Tohoku Earthquake of March 11, 2011 happened is one of the five largest earthquakes in the world since 1900 and the largest  
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## NSPE Announces New Executive Director

NSPE has announced **Mark J. Golden, CAE, F.ASAE**, as Executive Director and Corporate Secretary of NSPE, effective January 31, 2013.

Mark served as Executive Director of the National Court Reports Association for about 14 years. He began his association career in government relations and held progressively responsible positions, including industry affairs, in several associations.

Mark received his Bachelor of Arts with a double major from the University of Virginia, graduating with "High Distinction," magna cum laude in English. He is a Fellow of the American Society of Association Executives, and was awarded the Key Award, ASAE's highest honor, in 2011 in recognition of his "exceptional qualities of leadership in his or her own association."

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

known earthquake to hit Japan. This event generated a tsunami with tsunami waves of up to 130 feet traveling up to 6 miles inland. This talk will focus on damage observed in four towns located along the northeastern coast of Japan. The following topics will be addressed: general characteristics of the earthquake and tsunami; tsunami-induced damage; earthquake and tsunami preparedness; and lessons learned from an engineering and disaster response perspectives.

The final seminar is "Spin Fin Piles for Offshore Structures", presented by Les Chernauskas, P.E. (Geosciences Testing and Research, Inc.). Developed several decades ago in the northwestern U.S. for offshore oil field projects, spin fin piles have advantages in resisting lateral and uplift loads at shallow depths. The shallow depths allow versatility in hammer selection and less cost due to shorter pile lengths. The presentation will focus on spin fin pile performance through three recent case studies.

Immediately following the seminars at 5 p.m., we will all have time to catch up with our peers in a casual setting and a chance to talk to many of the exhibitors we plan to have. Sticking with tradition, a cash bar will be available to take the edge off, if you so choose. Following the social portion of the evening, dinner will begin to be served at about 6:15 to 6:30, at which time we will begin introducing this year's Engineer and Young Engineer awards. However, we may need to be flexible in

that our new Governor may be making an appearance, yet to be determined. We told her it would be an ideal setting to meet the engineers who shape the character of our state.

After dinner, the evening will wrap up after a presentation by our keynote speaker, Mr. James Rautio, PhD, EE (Sonnet Software). Jim will be talking about the life of James Maxwell the originator of what came to be called "Maxwell's Equations" in 1865, but it was not until 1888 that Maxwell's equations were widely accepted. The survival of Maxwell's equations was up to four researchers who comprised a group called "The Four Maxwellians". Jim's presentation describes the torturous 23-year path Maxwell's equations took from their creation to their initial acceptance. I am told there is a mysterious twist to the story.

Thanks so far to those who have committed to sponsor or become an exhibitor at our banquet. It would not be a successful event without your help. Registration for the educational seminars, dinner, and sponsoring or exhibiting are available through the NHSPE web site (<http://www.nhspe.org/nh-engineers-week>). Please contact anyone of the E-Week Planning Committee members including Ted Setas P.E., Gregg Comstock P.E., Jason Beaudet, P.E., Corey Dietrich E.I.T., or Larry Dwyer P.E. if you have questions.

*Submitted by Larry Dwyer, P.E.  
NHSPE E-Week Committee Chair*



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*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.

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## Word from President

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conducted by *PE Magazine* of young engineers from across the country and how it relates to licensure.

In the poll, young engineers from across the United States were asked what they would like to be known for at the end of their careers. The overwhelming answers were (1) their quality of work and (2) their character and ethics. It seems that while a high standard of ethics is a key motivator for these young engineers, the need to be licensed is clearly not as important in some fields of the engineering profession as in others. While it is unclear why this is the case, one thing that is certain is that ethics is at the heart of licensure and while it is true that licensure may not be required in all branches of engineering, there is no reason why it should not be promoted in these areas. In fact,

some NSPE members are taking it upon themselves to raise awareness of the benefits of licensure.

If you are a member of NHSPE and in a branch of engineering where licensure is not promoted, I suggest you contact us or reference the NSPE website ([www.nspe.org](http://www.nspe.org)) which currently provides ethics training resources. **Promoting licensure is promoting a higher standard of ethics.** By utilizing and sharing the benefits of the resources available to every member of NHSPE with industry leaders and fellow engineers, I believe it is possible to raise awareness of broader issues affecting today's young engineers and the profession and will help fulfill the need for young engineers to maintain a high level of ethical conduct.

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## Governor Presents

On February 5th, the Engineer of the Year and Young Engineer of the Year, along with several society chairpersons, met with Governor Hassan at the New Hampshire State House to accept Governor Hassan's Proclamation of Engineer's Week for 2013.



*Back Row (L-R): Tim Audet (ASCE-NH Treasurer), Bruce Buttrick (ASHRAE-NH Government Liaison), Michael Gregory (ASME NNE Past Chairman), Chris Bean, P.E. (2013 Engineer of the Year), Ted Setas, P.E. (NHSPE President), Darren Benoit, P.E. (ASCE-NH Legislative Affairs Chair), Josh Lund, P.E. SECB (SENH President)*

*Front Row (L-R): Britt Audet, P.E. (2013 Young Engineer of the Year), Rebecca Brown, P.E. (NHITE Board of Directors), Katherine Dunn, P.E. (SWESNH Vice President), Governor Maggie Hassan, Jason Hui Ph.D, CAPM, IEEE NH Chair)*

## NHSPE Meetings

The **January 2013** NHSPE meeting at the Common Man in Concord featured a presentation on Open Road Tolling by Christopher Waszczuk, P.E., Director of the New Hampshire Department of Transportation's Bureau of Turnpikes to an audience of nearly 30. Mr. Waszczuk's presentation focused on the Hampton, New Hampshire ORT project; the benefits of ORT; testing of the facilities; the impacts of ORT and some of the lessons learned. He was accompanied by John Corcoran, P.E., the Assistant Director of Turnpikes. Copies of the presentation are posted to the NHSPE website at <http://www.nhspe.org/events/>.

On **December 5, 2012** the NH Society of Professional Engineers hosted another successful "NH Department of Environmental Services (NHDES) Annual Update" luncheon meeting at the Puritan Conference Center in Manchester. Presentations included an update on NHDES Issues in the Upcoming Years by Assistant Water Division Director Rene Pelletier, P.G.; an update on the status of legislative activity and rulemaking related to wetlands by Collis Adams, CWS, Administrator of the

NHDES Wetlands Bureau; and updates on surface water issues related to nitrogen in Great Bay, In-stream Flow and efforts to mitigate water quality impacts of chlorides due to application of deicers containing road salt by Ted Diers, Administrator of the NHDES Watershed Management Bureau. Approximately 60 people attended and received a certificate for 2 professional development hours (PDHs). Copies of the presentations are posted on the NHSPE website at <http://www.nhspe.org/events/>.

At the **November 7, 2012** luncheon, J. Brian O'Neill, Deputy Airport Director of the Manchester - Boston Regional Airport, presented a powerpoint the topic titled "Change is in the Air". The presentation focused on the trends of the airport industry and how it affects the future operations of the airport. In particular, Mr. O'Neill shed light on the challenges of operating the airport in times of changes in the airline industry. Approximately 35 persons attended the meeting which was held at the Puritan Conference Center.

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## National Happenings

### Licensure and Ethics

Three new ethics Web seminars will be hosted this spring by NSPE General Counsel Arthur Schwartz. March 13 features a course on marketing issues, April 17 has a course on professional practice issues, and May 15 sees the two topics brought together in a final seminar.

Together with the Council of Engineering & Scientific Specialty Boards, NSPE has finalized and published a six-page document highlighting the advantages of licensure and certifications. Go to [www.nspe.org/Licensure](http://www.nspe.org/Licensure) and click on “Resources.”

This April, the National Council of Examiners for Engineering and Surveying will begin offering a **PE exam in software engineering**. NCEES partnered with IEEE-USA and was assisted by NSPE, the IEEE Computer Society, and the Texas Board of Professional Engineers—a group known as the Software Engineering Consortium—to develop the exam. Registration for the first exam opened in December, and exam specifications are available on the NCEES Web site.

NSPE will be presenting “Licensure as a Professional Engineer: Its Value and the Steps to Take” at the Black Engineer of the Year Award (BEYA) STEM Conference on February 8.

### Advocacy and Outreach

The Council on Federal Procurement of Architectural and Engineering Services has announced **the election of NSPE Past President Christopher M. Stone, P.E., F.NSPE**, as chairman for 2013. “Mr. Stone has extensive knowledge of federal A/E selection procedures and is an effective advocate for qualifications based selection (QBS). As the past president of NSPE, he has a deep understanding of the design profession, the federal market, and associations,” said John Palatiello, COFPAES administrator.

The **National Engineers Week Foundation** has announced its events for EWeek 2013 (February 17–23), including Discover Engineering Family Day (February 16) and Introduce a Girl to Engineering Day (on February 21). This year’s theme is “Celebrate Awesome.” See all the events and par-

ticipation ideas online at [www.eweek.org](http://www.eweek.org). NSPE has **compiled PE magazine articles** from 2012 that covered its legislative and advocacy efforts on behalf of professional engineers into one document. It serves as a one-stop-shop for learning about initiatives both in federal and state governments. Go to [www.nspe.org/resources/pdfs/2012-Taking-Action.pdf](http://www.nspe.org/resources/pdfs/2012-Taking-Action.pdf).

### Education and Professional Development

**Fifteen new online courses** are available from NSPE, at no cost to members. The following seminars have been prerecorded and will be available throughout 2013:

- Conflicts of Interest: Will Proposed Federal Rules Impact Engineering Practice?
- EJCDC Construction Contract Documents: Key Clauses and New Approaches
- Got BIM? It’s Not Just About 3D Models
- Harnessing the Power of Change
- How to Conduct Effective Meetings
- IT Solutions for AEC Professionals
- Key Federal Contracting Laws that Everyone Must Know
- Legal Realities of Project Scheduling
- Engineering Ethics: What Is the Impact of the Ongoing Economic Crisis on Engineering Ethics?
- Ethics Forum: Maintaining Objectivity, Truthfulness, Nondeception, & Preserving Confidentiality
- Ethics Forum: Protecting the Public Health, Safety, Welfare, & Demonstrating Professional Competence
- Ethics Forum: Whistleblowing, What Are the PEs Obligations to Report Misconduct?
- Pending and Current Legislation, Rules, and Programs that Will Change How We Manage Stormwater
- Strategic Planning
- Project Management and Ethics

The **PEPP Guides to the Professional Practice of Engineering: The Engineering Organization** has been newly edited and will be available for purchase in early 2013. With information on budgeting and business development, it’s of particular interest to entry-level professionals.

*(Continued on Page 9)*

## 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.

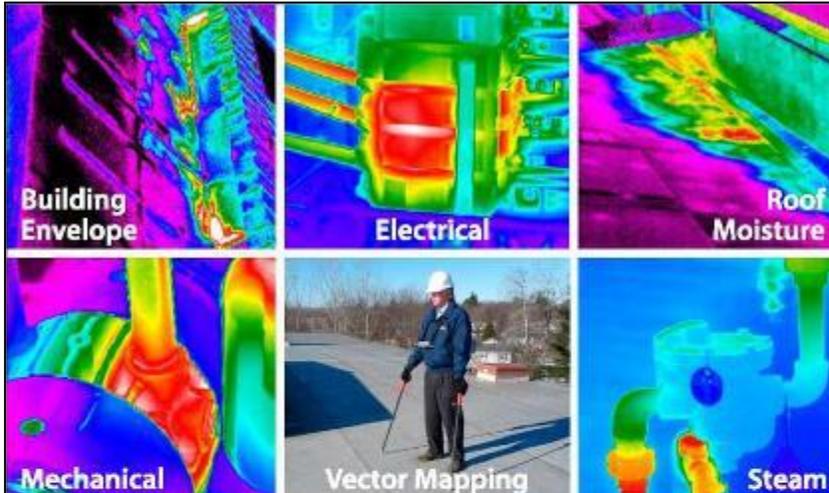
**6. Upholding High Ethical Standards:** NSPE's highly respected Engineers' Code of Ethics has served for decades as the standard by which engineers measure their ethical performance of professional duties. Engineers faced with difficult decisions often turn to NSPE's Board of Ethical Review for helpful 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](http://www.nspe.org):** NSPE's Web site, [www.nspe.org](http://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.



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## National Happenings

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NSPE, the American Society of Civil Engineers, and others have long argued that the bachelor's degree is not satisfactory as the minimum education requirement for licensure as a PE. Now, a new eight-minute video tells why additional education is necessary. "**Raise the Bar for Engineering**" can be found at [www.raisethebarforengineering.org](http://www.raisethebarforengineering.org) and on YouTube. It explains that education beyond a bachelor's degree has become the requirement for licensure in every learned profession except engineering.

### Honors & Awards

Be sure to remind engineering students and parents about **NSPE's scholarships**. There are two for high school seniors, six for undergraduate engineering students, and three for engineering graduate students. Applications for most are due March 1. Visit [www.nspe.org/students](http://www.nspe.org/students) for a list of scholarships and directions on how to apply.

### Other Notables

In the December 2012 issue of *PE*, the Society published the results from its survey of annual **professional liability insurance providers**. To access the information and a directory of providers, visit [www.nspe.org/ProfessionalLiability/Insurance/index.html](http://www.nspe.org/ProfessionalLiability/Insurance/index.html). The survey is conducted with the American Institute of Architects and the American Council of Engineering Companies.

The Engineers Joint Contract Documents Committee is finalizing **the latest edition of its construction-related set of documents** for release in the first quarter of 2013. The new edition will reflect current business practices and includes three entirely new documents. Prices will be raised accordingly. To ensure that each customer who buys the full set of construction documents (C-990) receives the latest edition, anyone who buys the 2007 edition will receive the 2013 edition at no additional cost. You can get the documents at [www.nspe.org/ejcdc](http://www.nspe.org/ejcdc).

NSPE President Dan Wittliff, P.E., F.NSPE, appeared on a radio show recently to discuss engineering's position as one of the "10 Hardest Jobs to Fill." Visit [www.nspe.org](http://www.nspe.org) for a link to the program.

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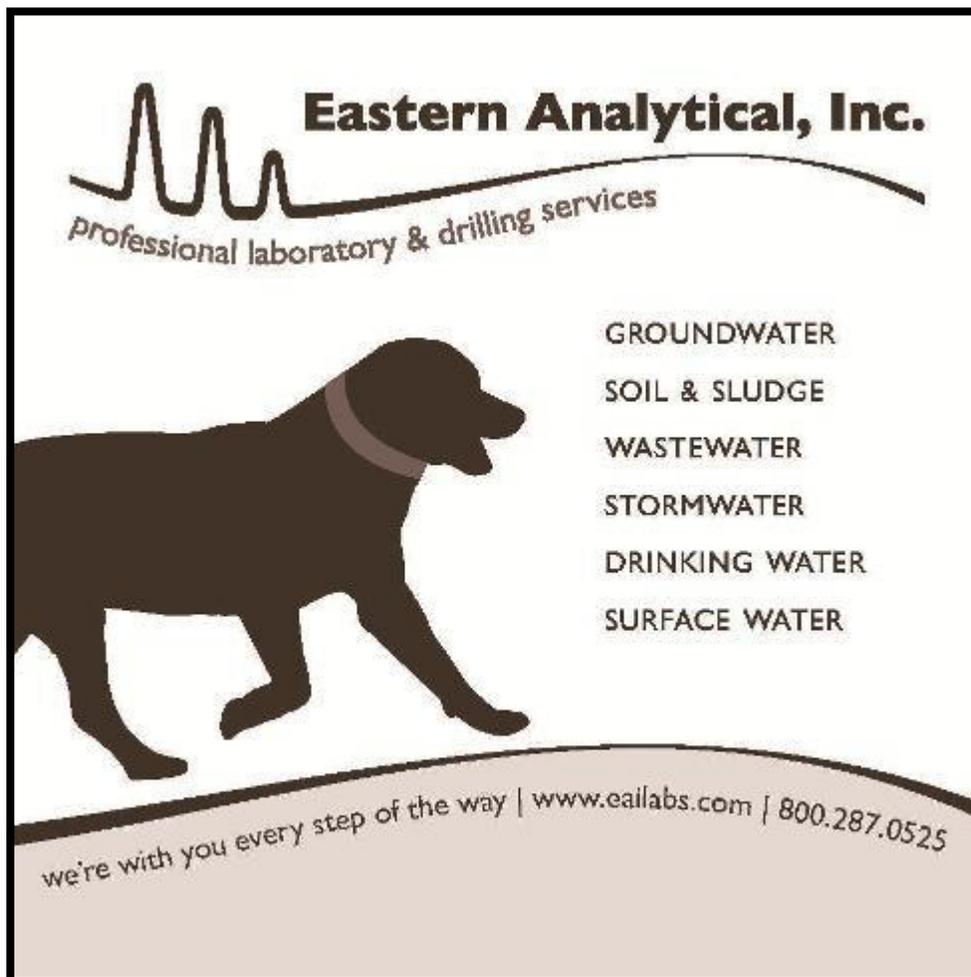
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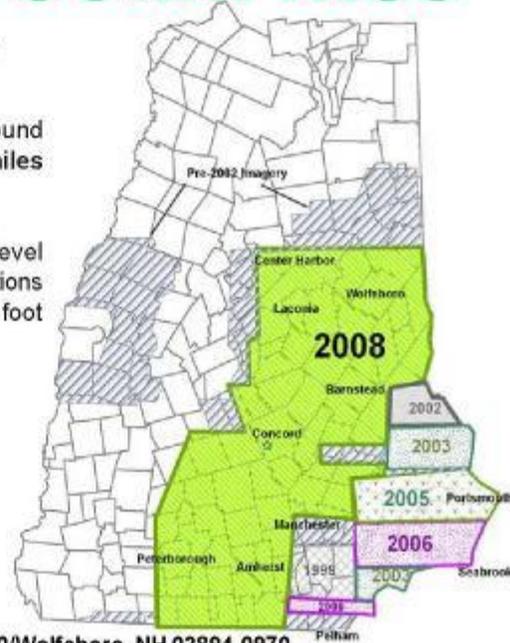
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