

State News for NSPE Members

UF Opens Doors to New Engineering Building

The University of Florida has opened its new \$72.5 million Laboratory for Engineering Excellence, [reports the Gainesville Sun](#). The building has a nontraditional classroom style where lectures are watched online and classroom time is dedicated to hands-on work. Among the high-tech features are advanced 3-D printers, a prototyping lab, a 50,000-psi water cutter, and a global teleconferencing facility with 27 screens.

Algae Blooms Study Using Nanobubbles Technology

Researchers are studying a new method of eradicating and preventing algae blooms at the Pahokee Marina, where toxic blue green algae covered the water earlier this year. [The study](#) involves nanobubbles. The tiny bubbles, 2,500 times smaller than a grain of table salt, contain a natural oxidant that kills algae cells and neutralizes toxins. Nanobubbles are blasted into the water via special generators installed in the marina. Bubbles at this scale remain suspended in water for long periods, enabling highly efficient oxygen transfer and a supersaturation of dissolved gas in liquids. This oxygenation can reduce contaminants such as algae, algae toxins, and pathogens.

The six-month pilot program funded by a \$355,850 grant from [Florida's Department of Environmental Protection](#) could be extended for another six months. It is a collaboration between the Water School at Florida Gulf Coast University and Moleaer, a nanobubble technology company. In Florida, algal blooms have been increasing in number and severity due to increased nutrient loading and climate change. The blooms have wide-ranging negative effects on aquatic environments.

Stay up to date on legislative issues through the [NSPE Advocacy Center](#).

Volunteer Leaders Make a Difference – Are You Ready?

Do you want to influence the future of the profession? Are you a young professional looking

to advance your career? Have your professional achievements created a desire to give back and serve?

Join NSPE leaders Tricia Hatley, Megan Schultz, and Craig Sisco on **November 1** (4:00 p.m. to 5:00 p.m. ET) as they explore the rewards, benefits, and requirements of volunteer service. NSPE President Rick Guerra will serve as the moderator during this **free webinar**.

Attendees will learn about the opportunities available and gain an understanding of the skills and abilities desired for these positions. The panelists will also share real-life stories of how volunteer service with NSPE has improved their careers and provided fulfillment of their goals and aspirations. [Register now](#).



Tricia H. Hatley,
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Megan J. Schultz,
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Craig S. Sisco,
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Rick J. Guerra,
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Delaware Improves Licensure Mobility for PEs

Legislation designed to expand licensure mobility for professional engineers in Delaware was signed by Governor John Carney on September 17. Members of the Delaware Engineering Society let state legislators know of their support for the bill through the [NSPE Advocacy Center](#), a critical factor in gaining support for its passage.

The amendments to the state's PE law provide multiple licensing opportunities. Individuals with an NCEES Record or who qualify as a Model Law Engineer will now find it easier to obtain a PE license in Delaware. The law was also amended to recognize applicants who are graduates of an engineering educational program approved by an accrediting agency that is a signatory to the Washington Accord. The accord covers 21 countries, including Australia, Canada, China, India, Ireland, Japan, Korea, New Zealand, Russia, South Africa, the United Kingdom, and the United States.

An applicant with a minimum of five years of continuous and verifiable experience as a professional engineer can also apply for comity licensure. These applicants must also submit five references, three of which must be from professional engineers licensed in the US, Canada, or an International Professional Engineer registrant under the International Engineering Alliance.

The law's new provisions also eliminate the requirement that licensees can use only an embossed seal, making way for use of a digital seal.

Challenges Facing the Profession



NSPE Immediate Past President Tricia Hatley, P.E., F.NSPE, offers her advice on how engineers can get the most satisfaction from their careers in a four-part series featured in *Machine Design*.

In the first article installment, [Challenges Facing the Profession](#), Hatley discusses the value of professional engineering licensure and the challenges the profession faces—population growth and urbanization, the recent pandemic and its short and long-term effects on society, the need for diversity to increase the ranks of engineers, and advances in technology.

Member Benefit: Build Your Financial Future with BHG

Did you know that NSPE has a member-benefit partner to support your financial needs? BHG offers members a variety of financial solutions including:

- Business loans to cover expenses such as debt consolidation, working capital, technology or equipment, business acquisition, or startup costs;
- Personal loan solutions to cover expenses such as debt consolidation, investments, life events, or major purchases;
- SBA 7(a) loans for business debt consolidation, or costs associated with startup or acquisition, real estate, renovation, or expansion; and
- Credit cards that offer low rates, cash back, and elite rewards, designed for professionals.

For more information or to get started, visit the BHG [website](#).

Not sure what financial solution is right for you but trying to improve your credit health? Learn four great ways to improve your credit health in BHG's recent webinar, [The Credit Gambit](#).

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