

## State News for NSPE Members

### VTC Architectural Engineering Technology & Renewable Energy Programs' Senior Project Presentations

NSPE-VT members are invited to attend a senior class capstone engineering design project showcase at the [Vermont Technical College](#) on **Friday, May 6**. Students in the Architectural Engineering Technology program and the Renewable Energy program will present their projects.

The presentations will take place 2:30 p.m. – 4:00 p.m. on the Randolph Center campus (in Conant Building Room 102, known affectionately as "The Pit"). At the conclusion of the presentations, practitioners in the audience may be asked to offer words of advice to students as they prepare to enter the workforce. If you plan to attend, please contact Scott Sabel, P.E., [via email](#) no later than May 1.

#### The Capstone Projects

This year's students have an interesting building for which they performed engineering system designs or evaluations. The project building uses the American Society for Heating, Refrigerating, and Air-Conditioning Engineers 2022 student design contest building as its basis. It is multi-story mixed-use office and performing arts facility located in Sydney, Australia.

The first team project will show an integrated, sustainable design of the overall building, attempting to reach net zero energy use. As such, they are developing holistic schematic-level designs for the architectural design, the site layout, and for the structural, mechanical/HVAC, and electrical/lighting systems. The second team will focus solely on the structural engineering for the building. As such, their design will be more focused and in-depth. A brief description of the projects can be accessed [here](#). The *Green Energy Times* recently [published an article](#) about the first team's project.

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### Engineering Electric Harley-Davidsons for Law Enforcement

Wilkins Harley-Davidson in Barre has been collaborating with Harley-Davidson engineers to build the nation's first electric law enforcement motorcycle, [vermontbiz.com reports](#). Wilkins was chosen based on its experience building the electric LiveWire motorcycle for the Vermont Department of Motor vehicles. It is the first all-electric motorcycle built by Harley-Davidson.

The Law Enforcement LiveWire bike will leave Vermont later this month to go on rotation with various law enforcement agencies, including the NYPD. It has unique features specialized for officers, such as LED lighting, police sirens, and protection bars.

"The challenge in building the Vermont DMV bike, along with the second iteration, was that there was no playbook to utilize in wiring, brackets, or other aspects of this machine. We are thankful we have such talented technicians at Wilkins to research the solutions in building this bike," John Lyon, co-owner of Wilkins Harley-Davidson, was quoted.

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## Grant Funds Action Plan for Caspian Lake

A nearly \$50k grant has been awarded to the Orleans County Natural Resource Conservation District to conduct a Lake and Watershed Action Plan for Caspian Lake, the [Newport Dispatch reports](#). The award came from the Lake Champlain Basin Program.

The plan will provide a digital library of available water quality data and analysis, and will identify and prioritize pollution sources, priority areas, and potential restoration projects. Overall strategies to reduce sediment and nutrient loading will also be included, with the goal of restoring and supporting aquatic habitats. Also planned are shoreland, stream, and road assessments, and projects to improve the lake's water quality.



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### **Featured Job**

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Burlington, VT

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## **Take the 2022 Engineering Outlook Survey**

Share your opinions on current issues affecting the practice of engineering by completing the 2022 *Engineering Outlook Survey*. The survey should take approximately 15-20 minutes to complete. Once completed, you will have the option to enter our drawing for one of four \$50 Amazon gift cards.

All responses will be kept anonymous and only used in aggregated results unless you give us permission to contact you regarding your responses. The results of the survey will be shared in an upcoming article in *PE* magazine, as well as other NSPE publications (website, newsletters, social media, etc.).

[Start the survey.](#)

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## **NSPE Endorses Sustainability and Resilience Statement**

NSPE believes licensed professional engineers should be good stewards of the environment in order to preserve and protect our world for future generations. The NSPE Board of Directors recently endorsed "[The Role of the Engineering Community in Addressing Climate Change](#)," a statement intended to unite, energize, and motivate people within and across organizations, and to fulfill their desires for meaning and purpose in their professional lives. Facilitated by Engineering Change Lab-USA, the statement was prepared with input from a working group of sixteen organizations including NSPE.

[Read more about NSPE's position on the environment, sustainability, and resilience.](#)

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## **New Live Webinar Series: Workability Wednesdays**

Would colleagues consider you workable?

How easy is it for you to mold, flow, and

blend in today's work environment? Is your knowledge up-to-date and relevant? Please join us for this [new webinar series](#) to learn more about topics impacting the industry and to enhance your competencies in the profession.



These live and interactive webinars are **free** to NSPE members and will be held at 2:00 pm EDT on the first and third Wednesday of the months of April, May, and June. The next webinar on April 20 will focus on [The Future of Wichita's Water - The Northwest Water Treatment Facility](#).

[Learn more about the upcoming webinars and register.](#)

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