PE MATTERS STATE NEWS

NSPE-UT UTAH SOCIETY OF PROFESSIONAL ENGINEERS

>>>> MARCH 2022

State News for NSPE Members

May Continuing Education Conference

Plan to earn continuing education hours toward licensure renewal by attending the upcoming Continuing Education Conference on **Saturday, May 14**. NSPE-Utah has partnered with the University of Utah Engineering Alumni Association and the Department of Occupational and Professional Licensing to deliver a great line-up of presenters and topics!

The conference will be held 8 a.m. to 5p.m. at the University of Utah Warnock Engineering Building (COVID restrictions permitting). In addition, plans are being made to broadcast the conference virtually to registered attendees statewide.

Attendance is free to all Utah PEs, including non-NSPE members. Look for registration information in the April issue of *PE Matters* and check the mail for your invitation.

ASPIRE Engineering Research Center Launches Electrified Roadway Demo

Electreon, a provider of in-road wireless electric vehicle charging technology, and the Advancing Sustainability through Powered Infrastructure for Roadway Electrification (ASPIRE) have partnered to take on the nation's electrified transportation challenges to the widespread electrification of all vehicles, according to a *Utah State Today* report.

Electreon's in-motion (dynamic) wireless charging technology will be installed in ASPIRE's research test track in North Logan, Utah, in summer 2022 to showcase the company's technology for the first time in North America. The demonstration will consist of 50 meters of dynamic in-road wireless charging hardware installed in Utah State University's test track. Corresponding vehicle-side charging hardware will be installed on the Kenworth truck, and power management and charging communication systems will also be included.

This site will function as a live demonstration facility for departments of transportation, other government officials, current and potential industry partners, as well as Electreon's potential and prospective partners and clients to experience in-motion wireless charging as the technology moves to market deployment in the US.

Credit: ASPIRE

Dominion Energy Utah Launches Program to Reduce Carbon Footprint

Dominion Energy customers in Utah can now sign up for CarbonRight, a new and affordable way to significantly reduce their carbon footprint. The program will allow customers to offset carbon emissions from natural gas use in their home or business by supporting projects that reduce greenhouse gas emissions, according to a news release.

The program is voluntary and available to all residential customers, businesses, government buildings, and schools. To participate, customers may purchase carbon offsets in $5 blocks on their monthly bill. A typical residential customer can offset their entire carbon footprint, achieving "net zero" carbon emissions from their natural gas usage, by purchasing one $5 block a month, or $60 a year.

The carbon offsets offered through the program come from projects that reduce landfill carbon emissions in Utah and Missouri, as well as a forest management project in Minnesota that captures emissions from the environment. The offsets are independently certified through a rigorous and transparent process to ensure they meet the highest standards.

*Stay up to date on legislative issues through the **NSPE Advocacy Center** .*

Meet the 2022 Federal Engineer of the Year

Robert Zueck, Ph.D., P.E., was named NSPE's Federal Engineer of the Year during a virtual awards event on February 24 for his discoveries and contributions in the engineering field. The Federal Engineer of the Year Award, sponsored by the Professional Engineers in Government, honors engineers employed by a federal agency that employs at least 50 engineers worldwide.

Zueck works in the US Department of the Navy's Naval Facilities Engineering Systems Command (NAVFAC), Expeditionary Warfare Center at Port Hueneme, California. He is heralded for applying his vibration research to military defense projects for which engineers can now design beyond the speed, agility, and stealth limitations of many military sensors, weapons, and platforms.

"Every success for me has come out of the hard teamwork of many fellow engineers and scientists," Zueck stated. "I thank them all—particularly those who provided valuable constructive criticism of my rather unique research results."

In a basic research project conducted several years ago, Zueck discovered how geometrically complex vibrations initiate, grow, and sustain themselves, often limiting higher performance for many combat systems. He used this new vibration knowledge to improve the Expeditionary Warfare Center's modeling capability for designing, analyzing, and deploying towed sensors, ship moorings, sub-sea arrays, and other slender naval structures.

"This basic science discovery could be very useful for modeling, simulating, and testing in many other fields of engineering and science," he said.

Read more.

Mark Your Calendars: 2022 Professional Engineers Conference

The 2022 NSPE Professional Engineers Conference will bring together professional engineers across disciplines from August 1–3, in Philadelphia at the Sheraton Philadelphia Downtown. Registration for the conference opens in April.

PECON attendees can access specialized content from experts as they discuss issues and trends impacting the profession, develop power skills and life skills not taught in school, and advance their careers by expanding their expertise and preparing for future developments in the industry.

The seventh annual PE Day will coincide with the conference's culmination on August 3. These two events allow PEs to join their peers in celebration of the profession and advocacy for licensure.

NSPE will continue to monitor health and safety guidelines while we proceed toward hosting this in-person event.

2022 NSPE Student Scholarships Available

Students can apply for the 2022 NSPE Education Foundation scholarships through a new online submission platform. The following scholarships have an **April 1** application deadline:

The Maureen L. and Howard N. Blitman, P.E., Scholarship to Promote Diversity in Engineering is awarded annually to a high school senior from an ethnic minority who has been accepted into an ABET-accredited engineering program at a four-year college or university.

The Auxiliary Legacy Scholarship is awarded annually to a female undergraduate entering or continuing their junior year of a four-year ABET-accredited engineering program.

The Steinman Scholarship is awarded annually to undergraduates entering or continuing their junior year in a four-year ABET-accredited engineering program.

The George B. Hightower, P.E. Fellowship is awarded annually to a current engineering undergraduate or graduate student who is enrolled in, or graduated from, an ABET-accredited engineering program.

Coming soon! The Swadesh and Om P. Popli, P.E., P.L.S. Scholarship will be a multi-year scholarship, providing $5,000 each year for the recipient's four-year education. Applicants must be a female high school senior from an ethnic minority pursuing a degree in engineering at an ABET-accredited program.

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National Society of Professional Engineers | 1420 King Street | Alexandria, VA 22314