

## State News for NSPE Members

### **New Water Authority Created by Governor to Address Drought**

Governor Doug Ducey has created the Arizona Water Authority in an effort to secure water for the state for 100 years, [ABC 15 reports](#). It will consist of a nine-member board that will administer the governor's \$1 billion investment in water security.

The authority will identify and develop innovative long-term water sources, including possibilities like ocean desalination and hauling water from other states. It will also have the power to acquire, own, and sell water on behalf of the state, [ABC reports](#).

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### **Taiwanese Chip-Making Plant Faces Construction Delays**

Taiwan Semiconductor Manufacturing Company's new Arizona chip-making plant has run into construction delays, according to [a new report from Nikkei Asia](#). The report notes that work has fallen three to six months behind schedule due to a mixture of labor shortages, COVID-19 surges, and complexities in obtaining construction licenses.

TSMC faces intense competition for workers in Arizona, especially from semiconductor producer Intel, the report states. Construction on the US plant started last June, and is the company's most advanced chip facility outside of Asia. After chip-making equipment is installed, it normally takes a year for operations to begin. The company expects production at the plant to start in the first quarter of 2024.

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### **State Licensing Board Meeting**

The [Arizona State Board of Technical Registration](#) will hold its next meeting on **Tuesday, March 22** starting at 9 a.m. The meeting agenda and other related

information can be accessed here.

Individuals interested in attending the meeting virtually should contact Kurt Winter [via email](#). Attendees can access the meeting through [Google Meet](#) or by phone: (US) +1 414-909-5163 PIN: 441 427 157#

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

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## 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.](#)

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## Mark Your Calendars: 2022 Professional Engineers Conference



August  
1-3  
2022  
Philadelphia, PA  
Sheraton Philadelphia  
Downtown

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.

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## 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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