

This typhoon-resistant facility in Guam will power the tubes that give us the internet

Subsea internet cables make the world's data go around, for regular people (and the Department of Defense). Guam—the Pacific island about 1,600 miles from Japan—is a key landing spot for cables crossing the biggest ocean in the world. And now the island is getting four new cables, and a new, storm-resistant facility to manage them.

If all goes according to engineers' plans, the facility's metal doors could survive a four-foot-long two-by-four board winging at them at 170 miles per hour, and the electronics and generators will be elevated high enough off the ground that they shouldn't flood even in a big storm. That's crucial, because the structure will power the repeaters, or "optical pumps" that the cables need to boost the laser signal as it travels through the fiber, losing energy over distance.

[Read the full story.](#)

Celebrating the Profession



NSPE is celebrating licensed professional engineers with the fourth annual Professional Engineers Day on **August 7**. PE Day participants will raise awareness about what it means to be a PE, recognize licensed PEs, and show appreciation for the work PEs do every day.

[Learn more about how to participate and access resources.](#)

- [Read the July/August *PE* magazine cover feature](#) and learn about the myriad ways individuals and companies are celebrating.
- [Show off your PE pride](#) with PE Day tshirts, mugs, totebags, and more on NSPE's new store.



PE Day: Let's Take It Outside

This year, for our fourth annual PE Day on **August 7**, let's take it outside. Outside the office and outside the profession. [Sign up to be a PE Day Advocate](#) and we'll schedule in-district meetings for you with your members of Congress and/or their staff. Take advantage of the opportunity to promote the value of professional licensing, build relationships with your members of Congress and their staff, and advocate for the Leonel Rondon Pipeline Safety Act (H.R. 2139/S. 1097).

PE Day is right around the corner and this is one of the many ways you can participate.

Never conducted a meeting with your representative's office before? No worries! The government relations staff is here to help you every step of the way. We'll provide all of the necessary materials, conduct a training webinar, and walk you through best practices for holding a successful meeting.

[Register now.](#)

New and Improved Access to BER Cases

The Board of Ethical Review's decades-long role as an ethical guide for the profession is like no other. As the BER's case catalog hits the 60-year mark, NSPE has released a major upgrade to its publicly available database of over 600 cases. The entirely unique reference gives full access to practicing engineers, students, educators, researchers, and anyone else who wants to learn more about the dilemmas engineers sometimes face in their work.

The database enables users to search the case catalog based on the topic—such as conflicts of interest or approval of engineering documents—by year, or by key words. The database also makes it easy for users to connect the cases to the relevant sections of NSPE's Code of Ethics for Engineers.

Call for Volunteers

A message from 2019–2020 NSPE President David Martini, P.E., F.NSPE:

Dear NSPE Colleagues,

Volunteers are at the heart of NSPE's work—providing exceptional experiences and essential tools to our community.

I am excited to invite you to respond to this year's Call for Volunteers. We need your skills, passion, and perspectives to build a vibrant, inclusive, and multicultural corps of volunteer leaders throughout our committees, interest groups, and task forces.

Volunteer opportunities within NSPE exist through many different areas of interest and on varying levels of engagement, from participation in short-term projects to our highest level of engagement as an active volunteer of a chair-appointed committee.

Please review the online [2019–2020 NSPE Call for Volunteers Form](#) to learn more about volunteer opportunities. **If you are interested in serving, please fill out the form by August 1.** You are limited to one selection within each engagement group. Appointments will be confirmed by the end of September.

Please note that depending on the number of responses received and the finite number of volunteer positions to fill, there may not be a role for everyone this year. While every effort will be made to place you in your primary area of interest in your desired engagement level, we may be unable to make a match due to limited vacancies.

We welcome your expertise and enthusiasm in becoming a part of this active and talented group of volunteers. Thank you for your consideration.

You received this e-mail because you are subscribed to *PE Matters* e-newsletter.

To update your e-mail address, visit www.nspe.org and login to manage your account.