

State News for NSPE Members

GU Legislature Approves Bills for Sustainable Infrastructure, Emergency Procurement

The Guam Legislature recently passed legislation that addresses resilient and sustainable infrastructure and emergency procurement guidelines. The following bills highlighted in the *Pacific Daily News* may be of interest to NSPE-GU members and the engineering community.

2050 Sustainability Plan

If signed into law, this legislation ([Bill 167](#)) will direct the Guam Bureau of Statistics and Plans to draft a new Guam 2050 Sustainability Plan. It will provide guidance across the government for the sustainable social, economic, infrastructure and physical development of Guam over the next 30 years. It would replace the Guam Comprehensive Development Plan, which was created in 1979.

Emergency Procurement Laws

This legislation ([Bill 90](#)) addresses strengthening emergency procurement provisions and transparency as it relates to obtaining supplies, services, and conducting construction work when there is a threat to public safety, health, and welfare and to the environment.

Registered Apprenticeship Program

This legislation ([Bill 287](#)) seeks to expand the Guam Registered Apprenticeship Program to include pre-apprenticeships and authorize tax credits for those participating in the program, particularly to strengthen the construction and technical workforce.

[Read more.](#)

Guam Featured in Data Collection for NOAA's Largest Coastal Mapping Project

A project completed the collection of topographic and bathymetric lidar and digital

imagery for the National Oceanic and Atmospheric Administration's (NOAA) largest coastal mapping project. These efforts include updating information for 12,000 square miles along the Eastern Seaboard, Pacific, and Gulf Coast that have not been surveyed for hundreds of years, according to a news release in *Directions Magazine*.

NOAA will use the data to support additional mapping, nautical charting, geodesy services, marine debris surveys and marine resource management assessments. The data also will be available to other federal, state and local agencies, as well as the public and commercial entities, and can provide valuable insights into sediment transport, emergency management forecasting, the impact of flooding and storm surge, transportation projects, and updating systems for recreational and commercial fishing.

Work for this contract stemmed from a supplemental appropriation from Congress for accurate and consistent measurement of the national shoreline following three storms in 2018—Hurricane Florence, Hurricane Michael and Typhoon Yutu—as part of NOAA's National Geodetic Survey Remote Sensing Division's Coastal Mapping program.

Data is currently being delivered for 11 project areas in Guam, the Commonwealth of the Northern Mariana Islands, southern Virginia, North Carolina, northern South Carolina, Florida, and southeast Alabama. The full data set is expected to be available for public use by summer 2021.

[Read more.](#)

Are You the Next Federal Engineer of the Year?

Honoring the commitment of federal engineers to innovation and service is the hallmark of the [Federal Engineer of the Year Award](#). Nominations for the award, which attracts participation from more than a dozen federal agencies, are open until October 31.

The FEYA ceremony is scheduled for February 18, 2021, at the National Press Club in Washington, D.C. Tickets will be available for sale in January and [sponsorship opportunities](#) are available.

[Apply or nominate a worthy engineer today.](#)

We Want to Hear from You!

Do you know of engineering news in Guam that would be great for this newsletter? Maybe it's a project you or your firm is working on, or perhaps you read some

interesting engineering news in your local newspaper. Or maybe you know of a fellow PE or student who deserves a little recognition. If so, we want to hear from you. Email your ideas to pemagazine@nspe.org.

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

NSPE President Warns Against Broad-Brush Licensing Reform



NSPE President Tricia Hatley, P.E., F.NSPE, recently challenged an opinion piece that advocates making temporary licensing deregulation permanent, measures that were enacted in response to the COVID-19 pandemic.

In a letter to the editor of the *Oklahoman*, Hatley warns that efforts to weaken licensing, however well-intentioned, make no distinction for highly complex, technical professions. This is a critical distinction that broad-brush proposals like those referenced in the article fail to make—and puts thousands of lives at risk in Oklahoma and elsewhere.

She also states that professions like engineering, architecture, accounting, landscape architecture and surveying are responsible for the safety of our physical spaces and the integrity of our financial systems. Because of this, they are required to meet rigorous standards based on education, experience, and examination to demonstrate a minimum qualification level.

[Read more.](#)

An Adventure to the Moon with Future City

Future City is a project-based learning program where middle school students imagine, research, design, and build cities of the future. This year's Future City theme is "Living on the Moon." Teams will be challenged to design a lunar city and provide examples of how their city uses two moon resources to keep citizens safe and healthy.



Due to COVID-19, Future City [transitioned this year's program into a virtual format](#) to offer impactful volunteer opportunities you can do from the comfort of your home or office.

Inspiring the Next Generation

Kay Bailey is a senior research and development engineer currently working on an innovative mechanical device that relieves back pain and pressure. She knows firsthand the added challenges in academia—and professional settings—when few people look like you. “When I was a middle school student, I didn’t see many examples of African Americans doing engineering,” she says.



This inspired Kay Bailey to volunteer as a Future City mentor in a predominantly African American school in Milwaukee. “I wanted to do whatever I could to show these students that it’s okay to be interested in engineering. Right away I could tell Future City would be a great way to get involved.”

Over the last two years, Bailey has loved working with these young scholars. Sometimes she helps them shape their creative ideas or explains STEM concepts, and other times they simply want to hear about what she is working on at her job. “I want these young people to be encouraged to pursue whatever they want.”

If, like Kay Bailey, you’re interested in inspiring the next generation, you can sign up to be a mentor by [clicking here](#) or email Info@FutureCity.org with any questions. This year, the program (including mentoring) will be virtual.

Upcoming Webinars: Roundabout Design Safety, the Engineering Team



NSPE’s [PE Institute](#) helps members stay current in the profession, earn PDHs, and advance in their careers through webinars on important topics. The webinars are held at 2:00 p.m. – 3:00 p.m. EST at a member price of \$99 (\$129 for nonmembers).

October 28

[Put Me in Coach! The Engineering Team from Concept to Completion](#)

Within the construction industry, engineering-based decisions are made by professional engineers closely engaged with technicians. Working as an efficient team, a project moves smoothly and is successfully completed. A panel of PEs and technicians will share engineering best practices and approaches to overcoming technical challenges.

This webinar is **FREE** for members and non-members.

Presenters: Kent D. Dvorak, P.E., Chip Hollis (moderator), William Kenneth Johnson, Jr., P.G., Shannon Looney P.E., and John W. Quidley S.E.T.

November 2

Canon 1, NSPE Code of Ethics for Engineers: “Hold paramount the safety, health, and welfare of the public”

This webinar will introduce you to four of the current members of the [NSPE Board of Ethical Review](#) (BER). Discussion will focus on four ethics cases that illuminate multiple aspects of Canon 1, to “hold paramount the safety, health and welfare of the public.” These cases are personal favorites selected by each BER member from the more than [600 opinions](#) the BER has published since the late 1950s.

Presenters: Mark Dubbin, PE, FPE, Jeffrey H. Greenfield, Ph.D., P.E., BCEE, F. NSPE, David Kish, Ph.D., P.E., William D. Lawson, P.E., Ph.D., F. NSPE

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