

## State News for NSPE Members

### **\$15 Billion in Clean Energy Investments Could Boost Arizona Economy**

The national business group Advanced Energy Economy (AEE) released [results of a report](#) that quantified significant economic benefits associated with investments in advanced clean energy deployment for the state of Arizona, according to a *Solar Power World* article.

The report, which was produced by international economics consultant Analysis Group for AEE, used an industry-standard modeling tool to estimate the impact of investing potential federal stimulus funds in advanced energy technologies, products, and services to boost economic activity in the wake of the COVID-19 slowdown.

“As Arizona, like the rest of the nation, looks to recover from the economic impacts of the coronavirus health crisis, this report shows investment in advanced energy delivers huge returns to the state’s economy, creating in-state jobs and adding much-needed tax revenues,” said J.R. Tolbert, managing director at Advanced Energy Economy. “Such public stimulus also attracts billions of dollars in private investment and saves consumers — commercial and retail alike — billions annually.”

“By investing in energy efficiency and renewable energy, while accelerating the shift to zero-emission transportation, we can generate significant economic activity in the state’s hardest hit communities while also helping Arizona move toward an advanced energy future,” added Tolbert.

[Read more.](#)

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### **ASU Engineers Better Airline Passenger Security**

Long lines of passengers waiting to go through Transportation Security Administration screenings at airports can be a source of dread. The time it takes to

complete the security process varies, and this can add extra stress for both passengers wanting to get to their flights and TSA officials wanting to provide a smooth and secure operation.

The Center for Accelerating Operational Efficiency (CAOE), a Department of Homeland Security Center of Excellence led by the Ira A. Fulton Schools of Engineering at Arizona State University, is tackling the challenge of ensuring that TSA screenings are maximizing the efficiency of their resources, according to an October 23 *ASU Now* article.

Researchers at the CAOE have been developing decision-support tools to simulate, optimize, and visualize TSA security screening checkpoint operations with ever-changing passenger demands.

[Read more.](#)

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## State Licensing Board Meeting

The Arizona State Board of Technical Registration held a meeting on Tuesday, October 27. The meeting agenda and audio can be accessed [here](#). The board will hold its next meeting on Tuesday, December 8.

Individuals that want to attend the meeting remotely must make a request in advance. The board uses Google Meetups for its remote meetings, which requires the meeting host to invite members to participate. Contact Kurt Winter at [kurt.winter@azbtr.gov](mailto:kurt.winter@azbtr.gov) if you're interested in attending remotely.



NSPE's **Job Board** is your one-stop resource for professional engineering employment. Whether you are on the hunt for your next career move or looking for today's top engineering leaders and talent, you will find it here.

NSPE provides the tools PEs need to keep current in the profession and advance their careers.

## Featured Job

[Senior Civil Engineer](#) Phoenix, AZ

Find more job openings or reach the right employees on the [NSPE Job Board](#).

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

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## 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.](#)

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## 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](mailto:Info@FutureCity.org) with any questions. This year, the program (including mentoring) will be virtual.

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## 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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