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## NAE News



### EngineerGirl Announces 2023 Writing Contest Winners

The National Academy of Engineering announced today the winners of its [2023 EngineerGirl Writing Contest](#). This year's competition asked students in Grades 3 through 12 to write an essay on how female and/or non-white engineers have contributed to or can enhance engineering's greatest achievements. Specifically, this year's contest prompt asked students to choose one of the greatest engineering achievements of the 20th century and explore how these innovations developed in the last century compare to new technologies being developed today. [Find the complete list of winners and winning essays here>>](#)



### NAE Perspective: Psychological Safety in Engineering Starts with DEI

Engineers aren't strangers to quantifying physical safety. But how easy is it to quantify psychological safety? In a new NAE Perspective, Mark McBride-Wright presents a DEI strategy that seeks to address psychological safety from point of empathy. "With our SHAKE model, we want to empower businesses to create a culture where their teams (S)hare their experiences, (H)ear each other and listen without judgment, (A)ct when they notice unsafe behaviors, both physical and psychological, use (K)indness and empathy in their approach to others, and feel (E)mpowered to be their whole selves at work." [Read here>>](#)

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### **NAE Perspectives: Technological Obsolescence**

COVID-19 revealed shortcomings of local, state, and national public health systems to accurately and effectively collect, transmit, and process information. In a new NAE Perspective, Jonathan Coopersmith discusses the complex, evolving world of technological obsolescence, a key component of our modern world. "Determining technological obsolescence depends not just on creators and promoters of new technologies but also on users, providers, funders, accountants, managers, standards setters—and, most importantly, competing needs and options" said Coppersmith. "Perspectives on obsolescence depend on your position." [Read here>>](#)



### **Water Resources Podcast Focuses on Climate-related Challenges**

In a new podcast series, NAE Member Bridget Scanlon leads discussions with leading experts on water and related issues. The Water Resources Podcast presents challenges with water resources related to climate such as droughts, floods and overexploitation by humans. To date, seven podcasts have been released. The Water Resources Podcast is a production of the Bureau of Economic Geology, The Jackson School of Geosciences at the University of Texas at Austin in partnership with the National Academy of Engineering. The podcast is supported by the Fisher Foundation.

[Find episodes and read more here>>](#)



### **President's Corner**

[The Future of Engineering](#)

[Engaging the Public in the Mobility Electrification Revolution](#)

[International Outreach for Secure and Sustainable Energy](#)

[Engineering the Transition to Net-Zero Carbon Emissions](#)

[Global Challenges Addressed by Engineering and Technology](#)



### **Quick Links**

[NAE Programs](#)

[NAE Reports](#)

[NAE Awards](#)

[NAE Media Room](#)

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## **Upcoming Events**

[Climate Conversations: Artificial Intelligence](#)

Webcast | Jun 22, 2023, 3:30PM - 4:45PM ET

[Subscribe](#)[Past Issues](#)[Translate](#) ▼[Unleashing the Power of Fusion in Travel Demand Analysis](#)

TRB Webinar | Jul 12, 2023, 12:00PM - 1:30PM ET

## New Publications



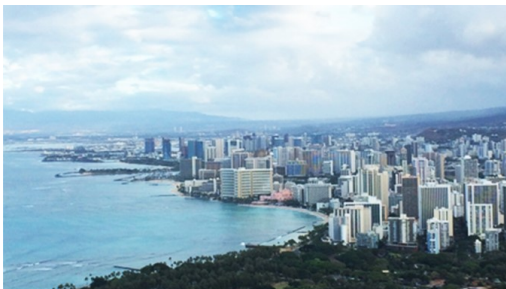
### The Coast Guard's Next Decade: Emerging Challenges and Needs

A new National Academies' report assesses emerging challenges the U.S. Coast Guard will face over the coming years including ones driven by climate change, technology and innovation, and global strategic competition. <<[Read here](#)>>



### Laying the Foundation for New and Advanced Nuclear Reactors in the U.S.

A new National Academies' report discusses how the United States could support the successful commercialization of advanced nuclear reactors with near-term actions to establish policies and practices. <<[Read here](#)>>



### Transforming EPA Science to Meet Today's and Tomorrow's Challenges

A new National Academies' report provides recommendations for how the EPA's Office of Research and Development can incorporate emerging science and systems thinking into the agency's planning. <<[Read here](#)>>



### Extraordinary Engineering Impacts on Society: Proceedings of a Symposium

A new NAE publication explores how support of fundamental engineering and engineering education research by the National Science Foundation (NSF) has led to positive societal and economic impacts. <<[Read here](#)>>

## NAE Development

### Legacy Gift Highlights Dedication to



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Virginia Bugliarello Endowed Fund and empower the newly named *George and Virginia Bugliarello NAE International Secretary* to execute their work supporting programs that promote and foster relations with international partners in a more robust fashion than ever before.



[Read more about this generous new commitment from Virginia and George Bugliarello.](#)

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## Engineering News

- [Civil engineers weigh in on I-95 repair process in Philadelphia](#)
- [Next Generation Experimental Aircraft Becomes NASA's Newest X-Plane](#)
- [AI automated discrimination. Here's how to spot it](#)
- [JF-22 in China is now the world's most powerful hypersonic wind tunnel](#)

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