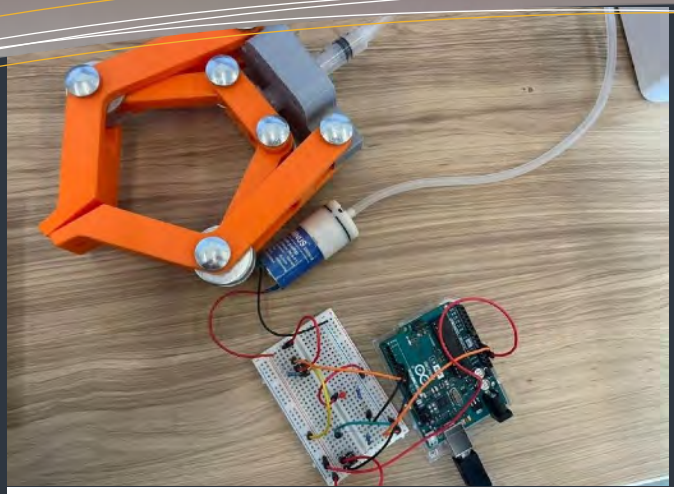
July 9 2025

News, Resources, & Notes



this issue

Upcoming Events:

1. Ohio Educator Summit/OTEEA Conference, October 22, 2025, River Valley High School, Caledonia
2. ITEEA Fall Forum, November 5 & 6, 2025, Online
3. ITEEA Annual Conference, March 25-28, 2026. Virginia Beach

OTEEA webinars online archive

OTEEA News, Resources, and Notes online archive

STEM is Elementary Newsletter Subscription And Archived Issues

STEM competitions

Fluid Power News From NFPA

New Fluid Power Lab Modules

We aare excited to announce the development of five new fluid power modules available on our website now! Developed by our partners at Purdue University, these modules integrate controls, electronics, and data acquisition with fluid power systems. They include instructions for a complete lab kit and a detailed Bill of Materials, meaning educators around the country can implement them in their own classrooms. What's more, the kit is affordable, with a cost of about $200.

These modules were developed through an NFPA grant and tested by students at both Purdue University and North Carolina A&T. The lab modules include building and controlling a pneumatic gripper, calibrating sensors, and collecting and analyzing data. These real-world applications enhance student engagement by connecting classroom theory to industry-relevant challenges.

Congratulations NFPA 2024-25 Fluid Power Grant Recipients

Fluid power activities and events blossomed in the 2024-25 academic year, which helped introduce over 2,400 students to fluid power. For comparison, over 1,700 students benefitted from fluid power education in the 2023-24 academic year. Growth was achieved with strong involvement from educators and community organizations who received NFPA's 2024-25 Fluid Power Grant. NFPA awarded over $21,000 in funding, which enabled 46 middle schools, high schools, and community organizations to participate in fluid power events and activities across the country. Congratulations to 2024-25 Fluid Power Grant recipients!

If you are not familiar with the Fluid Power Grant, it is solely funded by NFPA members. The grant offers schools and community organizations a pathway to funding for fluid power education, like fluid

power classroom materials, pneumatic components for robotic teams, and transportation to member company tours or Fluid Power Action Challenge events. Grant recipients fulfill grant requirement by submitting a summary report at the end of their program. The report explains how the funds were utilized, what the students learned and thought about fluid power, and if the fluid power education will continue. The report also includes photos and student testimonials or videos.

Click the link above to learn more about the Fluid Power Grant or contact James Foster at jfoster@nfpa.com. Enjoy your summer and congratulations to all 2024-25 Fluid Power Grant recipients!

Looking For Classroom Materials?

Visit The NFPA website for materials for Middle School, High School, Technical College, and Universities.

Read full NFPA Education Partner Newsletter

Teens Building Houses: Hands-on Learning: Rancho Cielo's Nexus 01

Brief But Spectacular

As wildfires grow increasingly destructive and the housing crisis persists, students at Rancho Cielo are learning to build homes that offer a solution to both challenges. These future builders are mastering the art of creating affordable, sustainable, and fire-resistant housing.

Here's their Brief But Spectacular take on building a home.

After Visiting This Carpentry School in Switzerland We Have a Lot of Catching Up To Do

Nick tours a Swiss carpentry school with @greensidedesignbuild3469 and they find out the US has a lot of catching up to do from an education standpoint.

Watch video

This Old House also visited a Swiss Trade School (I think the same one.) in Season 46 Episode 22. The school visit starts at about 16:40.

Watch video

A Take on Factory Built Homes

BOXABL is a company that started building tiny homes in a factory that unfolded onsite. The are expanding into larger buildings. This site tells some of their story and has a number of videos.

History Facts Stories

History Facts

What Grocery Stores Used To Look Like

Since most of us walk into a grocery store with our minds fixated on the items needed to fill up the fridge and pantry, it's rare that we take the time to marvel at the wonders of modern food shopping. Whether it's a small neighborhood mart, a chain supermarket, or a gargantuan superstore, today's grocery stores offer a dizzying range of brands for any given product, allowing discerning shoppers to make a choice based on price, ingredients, or even packaging. All necessary (and unnecessary items) can be wheeled in a cart to a checkout line, where a friendly employee will happily tabulate the items and accept various forms of payment. There are also self-checkout stations, where you can scan your items yourself and be on your way even faster.

Of course, such a process would have been completely alien to early humans who relied on hunting and gathering their food. And it likely would be fairly shocking even to the people accustomed to earlier forms of food shopping. Here's a look at what grocery stores were like before the rise of Krogers, Whole Foods, Trader Joe's, and the other popular stores we frequent today.

Read more

What Was the Bronze Age Like?

The Bronze Age was a period of extraordinary transformation that unfolded across many parts of the world between roughly 3300 and 1200 BCE. During this time, people mastered the process of smelting copper and tin into bronze, a durable metal that reshaped how humans farmed, fought, and built.

Read more

What the World Smelled Like Before Industrialization

Before the churn of factories and the tang of coal smoke came to dominate modern life during and after the Industrial Revolution, the smells of daily life were intensely organic, shaped by proximity to animals, bodies, plants, and decay. Urban and rural environments offered distinct olfactory experiences, but both were pungent, earthy, and changed with the seasons.

Read more

6 Facts About Ancient Navigation

Photo credit: Science & Society Picture Library via Getty Images

Thousands of years ago, the oceans seemed a lot wider, even unnavigable. Before mariners developed tried-and-true navigation techniques, sailing the seas involved a lot of guesswork — or, if you want it to sound cooler, “dead reckoning.”

Slowly, our ancestors moved beyond their initial stabs in the dark. Some looked to the sky, using their new knowledge about the cosmos to help them better understand life on Earth. Others took a keen interest in the seas, learning to intuitively navigate the vast expanses based on their currents and swells.

Read more

6 Popular Foods That Came From the Military

War is full of logistical challenges, one of the major concerns — in conflicts both ancient and modern — being how to feed the armies doing the fighting. Whether it’s Roman legionaries, British Redcoats, or modern infantry, soldiers have always needed a reliable supply of food to maintain both their energy levels and morale. As the old saying goes, “An army marches on its stomach.”

Read more

Pioneering Teenage Parachuter Georgia ‘Tiny’ Broadwick Showed That Courage Isn’t Counted in Pounds

A parachute belonging to Broadwick is on display in the Early Flight gallery at the Smithsonian’s newly updated National Air and Space Museum. NASM

The first woman to parachute from an airplane, she will be recognized in an exhibit when part of the newly renovated National Air and Space Museum reopens this year

Read more

Save the date: The Ohio Educator Summit/ OTEEA Conference will be on October 22, 2025 at River Valley High School in Caledonia, east of Marion

Technology and Engineering Education News and Resources

Activities, Contests, Student Opportunities, and New Technologies

SHARE YOUR EXPERTISE!

PRESENT AT ITEEA's 2026 CONFERENCE IN VIRGINIA BEACH

Making Waves: Forces Advancing Technology, Engineering, and STEM Education

Elevate your career while making an impact by joining the forces advancing our field! Presenting at our Virginia Beach conference offers technology, engineering, and STEM educators an unparalleled opportunity to grow their capacity while strengthening the entire STEM education community.

Why present?

- **Share Experiences** and establish yourself as a thought leader in technology, engineering, and STEM education as you pass on to others what you've learned in your career as an educator. Make waves by sharing the forces that have shaped your teaching success.
- **Develop Essential Skills** in presenting and facilitating meaningful professional discussions, increasing your confidence as you share your innovative teaching methods.
- **Expand Your Network** through connecting with like-minded educators from around the world and meeting potential collaborators for future projects. Ride the wave of collaboration that advances our entire field.

Your classroom successes, innovative approaches, and hard-earned insights are valuable to colleagues facing similar challenges. By presenting, you help fellow educators implement proven strategies that improve student outcomes.

ITEEA Offers Three Ways to Share Your Expertise!

Pre- or Post-Conference Workshops

Perfect for educators with innovative teaching strategies, curriculum implementations, or research findings to share. These sessions allow for deep dives into specific topics with interactive discussion.

Apply to Present a Pre- or Post-Conference Workshop by Friday, August 1, 2025

Apply to Present a Workshop

Professional Learning Sessions

Ideal for hands-on learning experiences, detailed training on new tools or methodologies, or comprehensive professional development on emerging topics in STEM education. These sessions serve as catalysts—the driving forces behind meaningful change in educational practice.

Apply to Present a Professional Learning Session by Friday, August 29, 2025

Apply to Present a Session

STEM Showcase

Designed for educators ready to share their best practices and experiences in a supportive, collaborative environment. These tabletop demonstrations are a perfect entry point for first-time presenters, students and early career educators, and those wanting to highlight specific classroom success.

Apply to Present a STEM Showcase by Monday, December 1, 2025.

Apply to Present a Showcase

Whether you're a classroom teacher with an innovative project, a curriculum coordinator with implementation insights, a technology integration specialist with digital tools expertise, or an advocate with community engagement strategies —your perspective adds value to the STEM education conversation.

Submit your application today and join us in Virginia Beach for four days of learning, networking, and professional growth that will energize your practice and advance your career, and help you make waves in technology, engineering, and STEM education!

News From Interesting Engineering

Interesting Engineering

‘Superwood’: US firm creates timber 10 times tougher than steel, resists water, fire

The material keeps wood’s natural warmth, texture, and charm, but is engineered to resist fire, rot, pests, humidity, and extreme weather.

InventWood's superwood plank. InventWood

A biotech startup from the U.S. is aiming to reshape the construction industry with the launch of a groundbreaking new material that mimics the look and feel of natural wood while outperforming high-grade steel in strength and durability.

Read more

Under Threat! How New Semiconductor Plants are Facing Big Problems.

The coronavirus pandemic brought to light the power China and Taiwan have over semiconductor chips, the intellectual heart of every electronic vital to modern day to day life. Now the US is scrambling to catch up. But are their efforts doomed before they can even start?

Read more

The New Electric Bulldozer That Could Drive on the Moon

Lumina technologies is taking heavy machinery to the next level—quiet, rechargeable, and remote controlled. Meet the ML6 Moonlander, the next generation electric bulldozer.

Read more

YouTuber installs 62 kWh battery to boost Nissan Leaf range to 228 miles

The second-gen Leaf's bigger battery fits under the old model with simple home tools and minor fabrication.

Read more

World's First Ever Robot Boxing Championship

Unitree organized the world's first robot boxing championship in China, called Iron Fist King: Awakening. What happened at the event, and what does it reveal about the future of robotics?

Read more and watch video

New bladeless wind turbine design could safely generate up to 460 watts of power

BWTs are quieter, occupy less room, and typically require less maintenance due to their simpler design.

Read more

How do offshore wind turbines work?

Energy companies around the world are storing wind energy with wind turbine farms and channeling it to our homes as electricity. But did you ever wonder how these wind turbines work?

Do onshore and offshore wind turbines work according to the same principle?

Watch video

Engineering in Action Through Socially Relevant Contexts - PDF Download

ITEEA Publication in Books and Standards

Engineering in Action is more than a lesson-plan book—it's an instructional toolkit for anyone interested in bringing meaningful, standards-based engineering experiences into K–12 classrooms. By uniting engineering content with practical pedagogy, this publication can help schools ignite student curiosity, strengthen integrated learning, and cultivate the engineering mindset today's workforce demands.

Order here

7 Graphic Organizers to Scaffold Student Learning

MiddleWeb

There are many ways to scaffold student learning, and we've looked at some of them – The Critical Partnership of Rigor and Scaffolding, Designing Questions That Support Scaffolding, and Boosting Comprehension Across Subject Areas. Now let's look at a traditional,but very effective way to scaffold learning: **graphic organizers**.

Read more

The Kid Should See This

The Kid Should See This

Smart videos for curious minds of all ages

Here are some selected videos.

- The Coriolis Effect, a merry-go-round demonstration
- Sally Ride's Historic Launch: The First American Woman in Space
- How to throw a toilet plunger for science

This Lamp Just Became the Most Expensive Object Designed by Frank Lloyd Wright Ever Sold at Auction

The double-pedestal light fixture brought in $7.5 million. It was designed around 1903 for the Susan Lawrence Dana House, a 12,000-square-foot residence in Springfield, Illinois.

The sale celebrates "not only a remarkable piece of American design but a landmark moment in the legacy of one of the most visionary architects in history," says Jodi Pollack, an expert in 20th-century design at Sotheby's, in a statement, as reported by Artnet's Min Chen.

Microsoft Quantifies Environmental Impacts of Datacenter Cooling From 'Cradle To Grave' in New Nature Study

Microsoft researchers have published a paper in Nature that quantifies for the first time how much energy and water are consumed and greenhouse gas emissions are produced by four datacenter cooling techniques across the entire lifespan of the datacenters.

Read more

Ohio EdTechs

Ohio EdTechs supports educators across Ohio's P-20 system with innovative technology integration and professional development. Our regional agencies collaborate to deliver practical, future-focused learning opportunities for all educators—from preschool through postsecondary.

They now coordinate the Ohio Ed Tech Conference (OETC) in February.

They have a Teacher Campus with online learning for teachers and curriculum (with materials available of some parts of the state) for students.

They are also linked to PBS Kids and ISTE.

This 14-Year-Old Built an App That Detects Heart Diseases in Seconds

Siddarth Nandyala wants to put his tool in the hands of medical professionals so that they can catch cardiovascular abnormalities in their early stages.

Read more

How To Build in Space for Life on Earth

Is space the “final frontier” — or the perfect place to revolutionize life on Earth? Space architect Ariel Ekblaw reveals how self-assembling structures could build orbiting real estate in space dedicated to solving humanity’s greatest dilemmas on Earth, leading to scientific and medical breakthroughs only possible in zero gravity.

Watch TED Talk

STEM Through Hands-On Creation

Learn to Code Using the Very Useful Monster with

Virtual Event

Wednesday, June 18, 2025 | 11:30 AM EDT

Join us for an action-packed hour of STEM discovery where coding, creativity, and hands-on fun come together to ignite curiosity in K–12 learners!

The Very Useful Monster is a free curriculum framework that supports students in building responsive robot monsters—an engaging way to introduce coding, robotics, and real-world problem solving. It’s designed to bring play, purpose, and programming together in one approachable activity.

In This Session, You’ll Learn How…

- The Very Useful Monster makes teaching coding with the micro:bit fun, hands-on, and inspiring
- Students can explore coding fundamentals, logic, and micro:bit features through interactive robot builds
- To spark creativity and confidence in young programmers through personalized, imaginative projects
- To integrate design thinking and self-directed exploration into your STEM instruction with ease

Read more and register

STEMcoding

Let's reimagine intro STEM courses with computer science in mind!

Groups like code.org have revolutionized computer science education for the elementary school and junior high levels. But the revolution has not yet reached high-school STEM courses like physics, math and chemistry. The STEMcoding project exists to re-imagine introductory STEM courses with computer science in mind.

The STEMcoding project involves three things: (1) fun, interactive coding activities designed for high-school physics, and eventually math and chemistry, (2) we offer professional development to science & math teachers, especially in Ohio, (3) we partner with existing camps to offer “Physics of Video Games” activities for high school students in Columbus and eventually in other parts of Ohio.

The STEMcoding project is led by Prof. Chris Orban in the physics department at OSU and Prof. Richelle Teeling-Smith at the University of Mt. Union.

Read more and connect to resources.

NREL Partners With Chilkat Indian Village To Improve Housing in Klukwan, Alaska

A team of National Renewable Energy Laboratory (NREL) researchers and Tribal staff gathered around the wood stove in Charlie Spud’s home, trying to figure out why it was not drawing air.

“Every time I turn on the bath fan, the stove backdrafts,” said Spud, 61, who built the home 13 years ago with his wife Joanne.

“That’s not good—it can bring carbon monoxide into the home,” said Jack Hébert, a senior research advisor at NREL’s Alaska Campus and a long-time Alaska homebuilder.

Read more

Interesting Facts Stories

Interesting Facts

The Stories Behind the Colors of 5 Everyday Objects

Credit: pyzata/ Shutterstock

Some colors tend to come and go as fashion dictates, but a few have been chosen by humans for very specific, utilitarian purposes. Whether it’s about leveraging the advantages or limitations of human sight, or just evoking a particular emotional response, civil engineers and designers have used color to shape our world in ways you may not expect. Here are the stories behind the colors of five everyday objects — and why these hues are perfect for their assigned tasks.

Read more

Why You Wouldn't Last 24 Hours in Medieval Times

Think medieval times were all knights in shining armor and romantic castles? Think again. The brutal reality of the Dark Ages would shock you to your core. From the moment you wake up in a medieval hovel, every single aspect of daily life would be trying to kill you.

In this eye-opening journey through history's darkest period, we'll take you hour by hour through your first (and likely last) day in medieval Europe. You'll discover why a simple bathroom break could expose you to deadly diseases, how every meal

was essentially Russian roulette with food poisoning, and why medieval "medicine" was more terrifying than any horror movie.

Watch video

What The Boeing 747 Hump Was Really for

The Boeing 747 was a vision seen as impossible in the 1960s - an aircraft twice the size of anything before it. Born from fears of a supersonic future, designed as a cargo plane, it became a passenger icon that changed global travel forever. From its distinctive hump to record-breaking speeds, the 747 captivated the world.

This is no ordinary plane story. Behind every rivet and curve, there lie secrets few know: a cockpit with nearly a thousand switches, a humanitarian mission carrying over a thousand souls, and a flying machine that also ferried space shuttles. The Jumbo Jet was more than metal — it became a symbol of daring ingenuity and human connection.

MIT's High-Tech 'Bubble Wrap' Turns Air Into Safe Drinking Water — Even in Death Valley

LiveScience

Researchers at MIT have tested a new technology for turning water vapor in the atmosphere into drinkable water, even in extreme environments.

Read more

How Well Do You Know Inventors Over History?

History Quiz

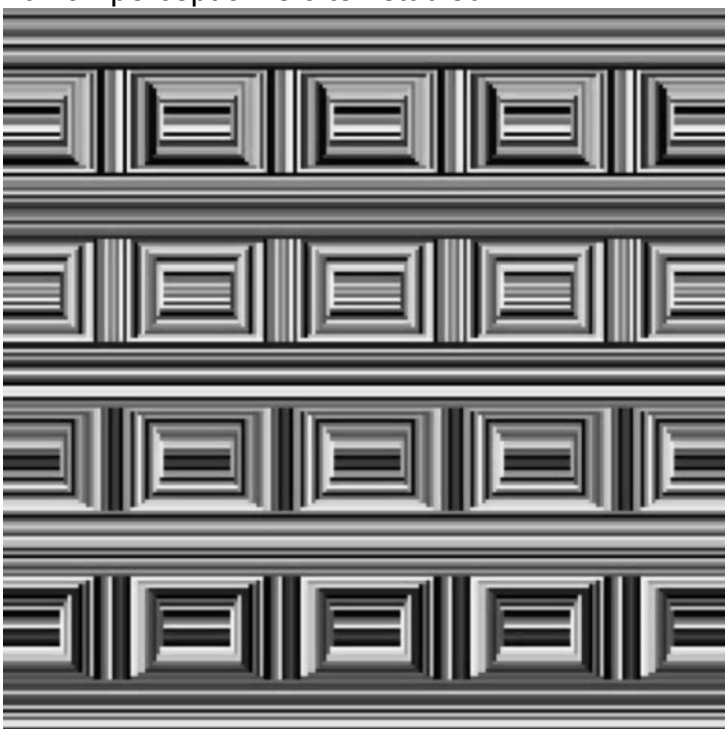
Can You Match These Inventors to Their Creations?

Take quiz

Culture Literally Changes How We See the World

Science

Himba people from rural Namibia can see right through optical illusions that trick people from the United States and United Kingdom. Even when there's no "right" or "wrong" way to interpret an image, what Himba people see is often vastly different from what people see in industrialized societies, a new preprint suggests. That could mean people's vision is fundamentally shaped by the environments they're raised in—an old but controversial idea that runs counter to the way human perception is often studied.



What do you see when you stare at this grid of line segments: a series of rectangles, or a series of circles? The way you perceive this optical illusion, known as the Coffer illusion, may tie back to the visual environment that surrounds you, a recent preprint suggests.ANTHONY NORCIA/SMITH-KETTLEWELL EYE RESEARCH INSTITUTE

For example, when presented with a grid of line segments that can be seen as either rectangles or circles—an optical illusion known as the Coffer illusion—people from the U.S. and U.K. almost always see rectangles first, and they often struggle to see circles. The researchers suspect this is because they are surrounded by rectangular

architecture, an idea known as the carpentered world hypothesis. In contrast, the traditional villages of Himba people are composed of round huts surrounding a circular livestock corral. People from these villages almost always see circles first, and about half don't see rectangles even when prompted.

Read more

This Teen 3D-Printed a Beehive for his Bedroom

Popular Science

Oliver Taylor's Beehive Is 3d-Printed and Expandable.
Image: Courtesy of Bryan Mark Taylor

Oliver Taylor estimates there may be as many as 40,000 bees buzzing around his DIY hive.

While many 13-year-old boys might spend their summers playing video games or attending camp, Oliver Taylor decided to build a custom-made, 3D-printed beehive—in his bedroom.

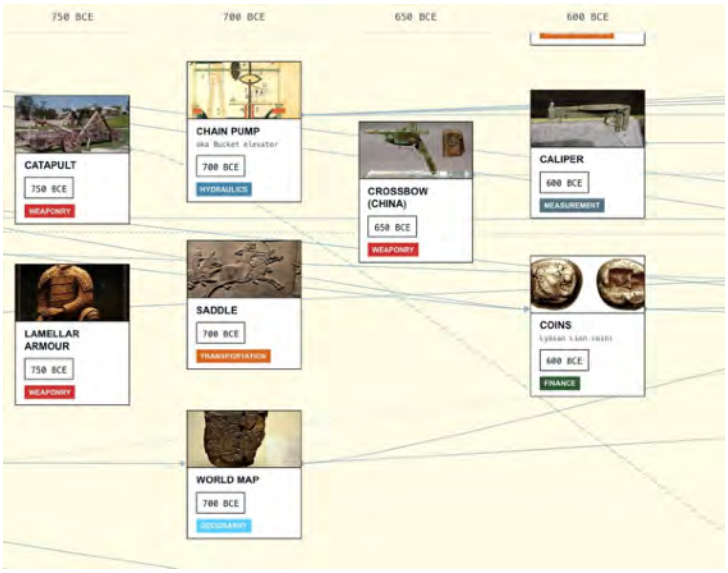
Read more

64 Home Design Fails That Made Me Genuinely Wonder if I Might Be a Better Contractor

Read more

A Visualization of the History of Technology: 1,889 Innovations Across Three Million Years

OpenCulture



To best understand the technology that increasingly makes up our world, we should attempt to understand the evolution of that technology. Those smartphones, for example, couldn't have been invented in the form we know them without the previous developments of chemically strengthened glass, the multi-touch screen interface, and the camera phone. Each of those individual technologies also has its predecessors: follow the chain back far enough, and eventually you get to the likes of the mobile radio telephone, invented in 1946; the phased array antenna, invented in 1905; and glass, invented around 1500 BC. These and countless other paths can be traced at the Historical Tech Tree, an ambitious project of writer and programmer Étienne Fortier-Dubois.

Read more

The STEM Pulse

The June 20 edition is out with news, funding and event information.

Read issue

America 250-Ohio Commission

The Ohio Commission for the U.S. Semiquincentennial (also referred to as America 250-Ohio) was formed through the OH. Rev. Code § 149.309 and announced on March 1, 2022, on Ohio's Statehood Day by Governor Mike DeWine. The 29 member commission is charged with preparing the state to participate in the United States of America's 250th anniversary which culminates on July 4, 2026.

America 250-Ohio is a multi-year commemoration where Ohioans from all 88 counties will be in the spotlight of the impact Ohio's unique role in our nation's story.

Ohio and Ohioans have contributed much to the United States from statesmen to artists, from actors to Nobel laureates, and so much more. We will tell the story of Ohio, from the Native Americans who were here before Europeans to people who call Ohio home today. Ohio is a content-rich environment for anyone who wants to commemorate and celebrate Ohio's contributions to national stories.

Web site with more information, resources, programs and how to get involved.

Emergency Preparedness

Give the increasing number of natural disasters here are some resources.

- Ready.gov – Preparing for a variety of disasters and making a plan.
- CDC Emergency Preparedness and Response – Resources and programs
- FEMA – Resources
- Ohio Emergency Management Agency – Seasonal awareness campaigns
- Ohio Department of Health – Public Health Emergency Preparedness
- American Red Cross – Emergency Preparedness Programs

ITEEA News

Save Now! Registration is Open for ITEEA's 2025 Fall Forum with Early Bird Pricing!

Register today to participate in *ITEEA's 2025 Fall Forum: For the Classroom and Beyond*, an enriching and dynamic two-day virtual event held November 5-6, 2025. To support educators in the classroom, we'll offer sessions with innovative activities, demonstrations, and practices that inspire and equip them to elevate their teaching. Beyond classroom resources, sessions will also address crucial topics such as funding, legislation, recruitment, retention, and nontraditional learning opportunities, educating attendees with the knowledge and tools to make a lasting impact in the broader educational landscape. Join your colleagues!

Important Potential Change to Perkins Career and Technical Education Act

Federal agencies recently signed an agreement to transfer career and technical education (CTE) funding oversight under the Perkins Act from the Department of Education to the Department of Labor. This proposal has raised concerns within the CTE community about potential disruptions to program administration and student services. Learn more, including how to make your voice heard.

Read more

Nominate Ohio's Excellent Technology and Engineering Programs and Teachers!

OTEEA is an ITEEA affiliate association so we choose the award winners. You can use the nomination form linked below and on the websites. If you have question contact Paul E. Post. Although the nomination form may say self-nomination you can also use it to nominate someone else filling in as much as you can. You are doing great things with your students and know others also doing great things. Please nominate them or yourself!

Program Excellence Award

Recognizing technology and engineering education programs that model excellence and serve as inspiration to others.

Awarded by ITEEA and sponsored by Paxton/ Patterson for decades, The Program Excellence Award is one of the highest honors given to technology and engineering education programs at the elementary, middle, and high school levels and is presented in recognition of outstanding contributions to the profession and their students.

Read more

Program Excellence Self Nomination Form

Teacher Excellence Award

Recognizing classroom teachers for outstanding contributions to technology and engineering education.

Awarded by ITEEA and sponsored by Goodheart-Willcox for decades, the Teacher Excellence Award is one of the highest honors given to technology and engineering education classroom teachers at the elementary, middle, and high school levels and is presented in recognition of outstanding contributions to the profession and their students.

Read more

Teacher Excellence Self Nomination Form

STEM Is Elementary

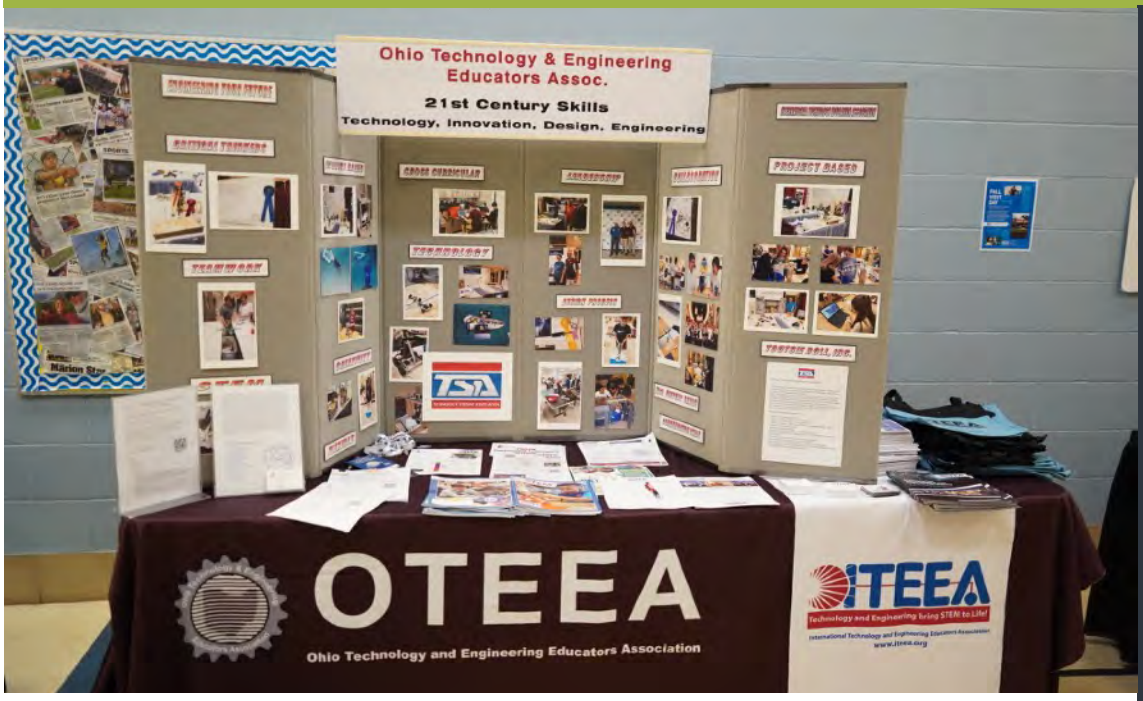
The July issue of STEM is Elementary is available here.

VEX: Looking Back at 2025: What You Might Have Missed

We get it—spring moved fast. If your inbox got ahead of you, now's your chance to catch up on the standout stories from the past few months.

Discover how VEX AIM supports coding success. Revisit an interview with Bailey Kahl, a member of the VEX Robotics Game Design Committee. Check out the VEX CTE Workcell, and meet some amazing teams from around the world!

👀 Catch Up Now



1. The Outreach group is looking for more members!

2. Have a story or pictures to share that tell about your program or students? Let us know!

3. The webinar has been discontinued. Archived webinars can be viewed at online.

4. What OTEEA programming would you like to see?

Contact Paul Post

"The future belongs to the few of us still willing to get our hands dirty." — Chris Sacca

This Week's Technology Tip

Increase Your Router's Versatility

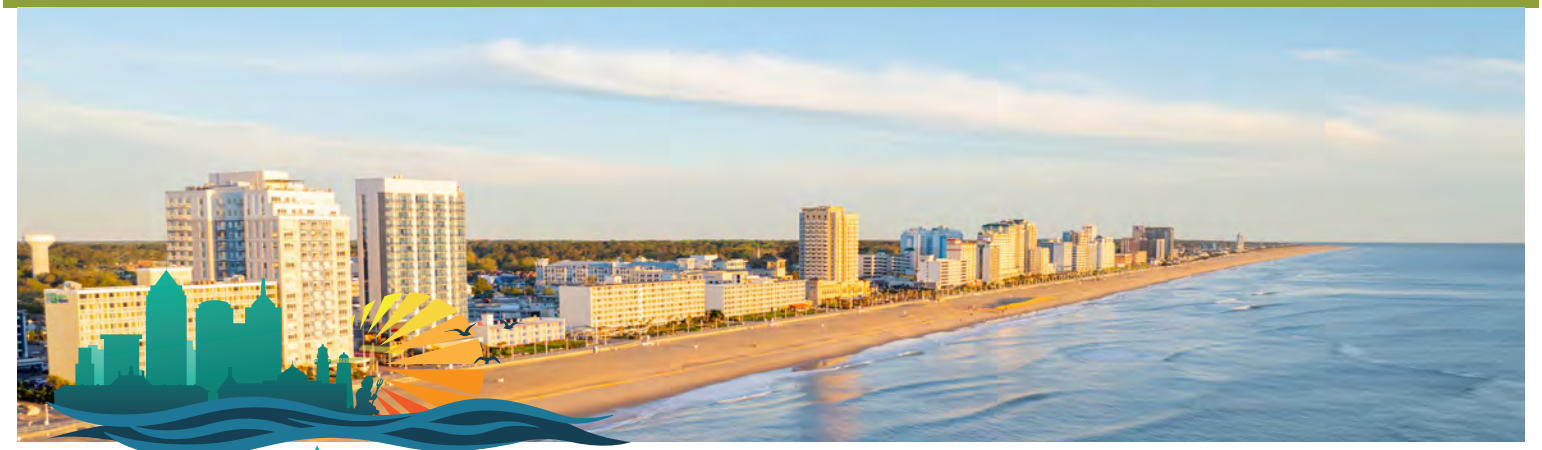
Woodworks Guild of America

A hand-held router is an incredibly versatile tool. Increase its versatility by adding an OmniBase. The OmniBase makes it simple to center the base on the router collet, accepts guide bushings and is compatible with other Milescraft jigs.

Other routers

Trim routers have notoriously small bases making them pretty tippy. Add an OmniBase to add stability.

Read more and watch video



ITEEA 2026
VIRGINIA BEACH • MARCH 25-28, 2026

Making Waves Across the Profession: Share Your Expertise with Your Colleagues at ITEEA's 88th Annual Conference

The Application to Present is Now Open!

Making Waves: Forces Advancing Technology, Engineering, and STEM Education

ITEEA's 88th Annual Conference invites technology, engineering, and STEM educators to the shores of Virginia Beach for a transformative professional experience centered around our theme "Making Waves." Just as ocean waves continuously reshape coastlines, innovative educators are redefining technology, engineering, and STEM education across classrooms nationwide.

Set against the inspiring backdrop of Virginia's beautiful coastline, this conference serves as the ideal environment to explore the currents of change in our field. The gathering brings together K-12 educators, university professors, industry partners, and curriculum specialists to share breakthrough teaching methodologies, research findings, and classroom innovations that create ripple effects throughout education.

From hands-on demonstrations and research findings to thought-provoking discussions and poster sessions, the conference provides a platform for both established voices and emerging leaders to contribute to the tidal shifts occurring in STEM education. By participating, you'll become part of this powerful momentum that continues to advance our profession's impact on student learning and future career pathways.

Apply to present a 30, 45, or 75 minute professional learning session. Session proposals that spark engaging dialogue and highlight innovative, hands-on approaches to the following topics are especially encouraged:

- Embracing technological advancements
- Evolving curricula and pedagogy
- Meeting workforce and societal demands
- Prioritizing human-centered learning

Apply by the August 29, 2025 deadline!
Important Note: Previous Cvent users must create a new login when applying. You may use your same email address for your new account.

MEMBERSHIP MAKES A DIFFERENCE!

Purchase an ITEEA Group membership now to gain access to valuable member benefits at an annual rate of $260!

ITEEA OFFERS GROUP MEMBERSHIPS FOR ELEMENTARY, MIDDLE, AND HIGH SCHOOLS THROUGH WHICH YOUR TEAM OF PROFESSIONALS CAN BENEFIT FROM:

- Complimentary electronic subscription to Technology and Engineering Education (TEE), ITEEA's flagship publication ($70 value).
- Discounted registration to ITEEA Conferences.
- Eligibility for ITEEA awards, scholarships, and other recognition.
- Discounted ITEEA publications and products.
- Discounted Professional Learning byDesign (PLbD) trainings and workshops.
- Discounted professional liability insurance, with rates as low as $108/year for $1 million in liability protection, $60,000 of life insurance at no cost for one full year for new members, and further savings on additional insurance programs through the Trust for Insuring Educators (TIE).
- Free registration for year-round members-only engagement opportunities such as Educator Xchanges.
- Free school position advertising on the Career Connections page of the ITEEA website for up to three months ($350 value), plus promotion on ITEEA's News Feed and/or Social Media.

LEARN MORE AND JOIN TODAY!
WWW.ITEEA.ORG/GROUP-MEMBERSHIP

All group memberships commence July 1 and conclude on June 30 of the following year.

The International Technology and Engineering Educators Association
www.iteea.org