



Upcoming Events:

1. ITEEA Annual Conference, March 25-28, 2026. Virginia Beach
2. National Robotics Challenge, April 16-18, 2026. Marion
3. OTEEA School Exhibits and Restoration Innovation Challenge, April 17, 2026, Marion

OTEEA webinars
[online archive](#)

OTEEA News, Resources, and Notes [online archive](#)

STEM is Elementary
[Newsletter](#)
[Subscription And](#)
[Archived Issues](#)

[STEM competitions and more resources](#)
spreadsheet

[Link to OTEEA membership form](#)



this issue

News & Resources **P.1**

More News & Resources **P.4**

Outreach Notes **P.15**

NASA News

New STEMonstration: Gyroscopic Stabilization



From space telescopes aimed at distant cosmic objects to the International Space Station orienting its solar panels towards the Sun, gyroscopes help keep spacecraft pointed in the right direction. In the latest **STEMonstration episode**, NASA astronaut Nick Hague demonstrates how gyroscopes are used to counteract instability and keep spacecraft stable while flying.

Watch the video, then check out the corresponding **career connection and hands-on activity** to make your own model gyrostad and explore careers related to

gyroscopic stability and NASA's human space exploration missions.

[Click here](#) to find more STEMonstrations and activities.

[Dream With Us! Design Challenge](#)

Agriculture plays an important role in providing food, fuel, and other resources for life. How can uncrewed aerial systems (UAS) and advanced technologies improve the agricultural industry?

NASA Aeronautics and the Federal Aviation Administration are teaming up on the **Dream With Us! design challenge** to invite middle school and high school student teams to envision ways drones and technology can help.



Middle school teams will choose from topics in areas such as crop production, resilience, harvest, and other important areas. Teams of two to four students will build a presentation to showcase their design.

Deadline: Wednesday, Dec. 31

[Click here](#) to learn more.



High school student teams will focus on creating a drone that can monitor plant health, detect pests, and collect samples. Teams of three to seven students will build an engineering design notebook supporting their proposal.

Deadline: Friday, Jan. 23, 2026

[Click here](#) to learn more.

Winning teams in each division will get a chance to share their designs with NASA experts.

Want to be a judge for the Dream With Us! Challenge? [Click here](#) to learn more.

Small Steps, Giant Leaps: Episode 163: NASA's Centennial Challenges Prize Program

In this episode of Small Steps, Giant Leaps, we talk with Savannah Bullard, strategic communications lead for NASA's [Centennial Challenges](#) Program Office out of Marshall Space Flight Center in Huntsville, Alabama. We'll talk about how competitions fuel science and engineering breakthroughs, what it takes to design and judge them, and how you can participate.

[Read more](#)

Aviation and Aerospace Classroom Resources

This video provides an overview of several aviation and aerospace resources for your K-12 classroom, including Civil Air Patrol, AeroEducate, AOPA You Can Fly, Choose Aerospace, Airforce Association, and more.



[Watch now](#) and elevate your professional learning journey!

Make:Cast — Makerspaces in Schools With Sarah H. Chun



From the Make:cast podcast: On this episode, Make: Founder Dale Dougherty interviews Sarah H. Chung, a maker educator who has worked on the development of a 20,000 foot makerspace for Center City public charter schools in Washington, DC. One of the big challenges she faced was “how can I show people what a makerspace is when the one that we’re building is not built yet?”

[Read More](#)

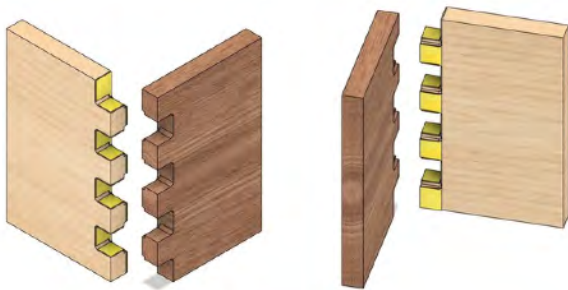
Make:



Hot Metal — DIY Blacksmithing Forge

From Make: magazine: As a retired maker, Howard Sandroff had more time on his hands than money, and decided to build his own DIY blacksmithing forge. Here's how he did it.

[Read More](#)



19 Ways to Join CNC Corners

Which CNC joint is the strongest? Which is the fastest to cut? Mononymous maker Billiam did the math and simulated 19 of them in CAD, evaluated each for rigidity, surface area, machining time, and effort, and crunched the numbers.

[Read More](#)

In a Sea of AI, SoulCrafted Is Daring to Be Human

Are you more excited about making art than ordering a robot to make it for you? MyMiniFactory hears your screams. The 3D model repository site is rolling out SoulCrafted, an initiative focused on identifying and elevating human-centric creations.

[Read More](#)

Contrapt Wisconsin



We are not in Wisconsin but here is a middle school design idea you can use.

Not familiar with Contrapt Wisconsin? Contrapt Wisconsin is STEM Forward's hands-on middle school contraption competition, where students design machines that perform a simple task in the most creative and complicated way possible. This year, the students' contraption must water a plant in 8 or more steps. Through this fun challenge, students develop skills in engineering, physics, problem-solving, teamwork, and creativity, culminating in an exciting showcase and awards celebration.

[Read more](#)

2026 Central Ohio STEM Expo

February 28, 2026

The Point at Otterbein University



Get Ready for a Fun Filled Day of Knowledge and Exploration!

The Central Ohio STEM Expo is a free educational outreach event for students in Kindergarten through 8th grade that will feature fun, interactive activities and exhibits in the Science, Technology, Engineering and Math fields.

[Read more and register](#)



Technology and Engineering Education News and Resources

Activities, Contests, Student Opportunities, and New Technologies

- Time to explore cutting edge classroom tools
- A community that understands the work you're doing every day

You'll walk away with new ideas, stronger professional connections, and inspiration to bring back to your students and your school.

★ **Quick reminder!** If you're planning to join us, early bird registration **closes Friday, December 5.**

👉 [Register](#) before prices increase.

See the flyer at end of this newsletter.

Be Seen. Be Recognized. Be Part of the Movement Shaping the Future of STEM Education.

Each year, hundreds of educators attend the ITEEA Annual Conference to share their innovations, showcase student success, and celebrate excellence in technology, engineering and STEM. Now it's your

December 5 Early-Bird Deadline



As we get closer to March, we're hearing the same thing from tech ed teachers, STEM educators, and CTE leaders across the country:

"This focused event brings together a tight-knit community of educators and professionals at all grade levels. ITEEA always offers a great selection of sessions and engaging activities."

If that sounds like what you are looking for, then ITEEA 2026 was built for you.

- ★ Why educators come to ITEEA
- Hands-on learning you can use right away
 - New approaches for teaching technology, engineering, and design
 - Space to recharge and reconnect with peers

turn to take the spotlight at ITEEA 2026 in Virginia Beach!

Apply by Friday, December 5 for one (or both!) of these exciting opportunities:

✓ [ITEEA's STEM Showcase](#)

Present your most creative classroom projects or teaching strategies during this high-energy, peer-to-peer event. It's your chance to inspire and be inspired.

✓ STEM Schools of Excellence

Earn recognition for your program's commitment to providing your students with exceptional STEM experiences. Celebrate your success on a national stage!

Both programs enhance your professional profile and can help justify travel and funding to attend the 2026 Conference.

👉 [Register Now](#) and make your mark on STEM education.

Computer Science Education Week

An annual call to action to inspire k-12 students to learn computer science, advocate for equity, and celebrate the contributions of students, teachers, and partners to the field.

[Read more](#)

COSI News



Selected article titles

Season of Celebrations is back this November, with a few new surprises!

Discover nature's magic in *Ohio: Wild at Heart* – now showing at COSI!

The Science Behind Pixar is now open at COSI through May 25, 2026!

[Read the issue](#)

STEM Playbook

Future-Ready Skills Through Sports

[STEM Playbook](#) builds career skills and confidence through the games students love most.

They have a design challenge based on the [Emirates NBA Cup 2025 court designs with Victor Solomon](#).

Coach's Corner: Design Your Own Court

Creativity + computation = optics, physics, and design thinking.

This week, STEM Playbook invites you and your students to *design your own basketball court* — blending art, math, and science just like the pros.

Challenge (20–30 min):

Use grid paper to design a STEM-inspired court that looks great and *plays* great.

Materials: Grid paper (or slide), markers/device, ruler, optional light meter app.

Design Rules:

- Use **symmetry** and **reflection** to organize space.
- Apply **color contrast** that keeps lines/ball/jerseys readable (skip pure white/black backgrounds).
- Keep **gradients** subtle so they don't distract or hide the ball.
- Preserve key **game markings** with high contrast.

Test & Iterate:

- Can you track the **ball** easily from “broadcast view” (zoomed phone photo)?
- Do **jerseys** pop against the floor?

- Any **glare/hot spots** or areas too dark?
- Make one change, re-test, repeat.

Show Us Your Court Vision:

Share a photo/video of your court—hand-drawn, or built from recycled materials.

Tag **@STEMPlaybook** or email

info@stemplaybook.org for a chance to be featured.

Subscribe at [their site](#) for more design challenges

Ohio STEM Innovation Summit



The Ohio STEM Learning Network will host the fourth annual Ohio STEM Innovation Summit on June 9, 2026 at the Greater Columbus Convention Center in Columbus, Ohio.

The event will ignite curiosity throughout Ohio's thriving STEM education community. Innovative sessions will build engagement and collaborative problem-solving. An expanded line-up of programming will help teachers, school leaders, and supporters of STEM:

- foster new connections
- highlight STEM best practices and
- find inspiration in new innovative classroom strategies

[Read more](#)

Now Open: Summit Call for Presenters + Hall of Inspiration



The Ohio STEM Innovation Summit brings together educators and leaders to share breakthrough STEM strategies. We're seeking presenters who are transforming STEM education in their schools and communities.

- **Submit a session** from 15 to 60 minutes OR

- **Join the Hall of Inspiration** and showcase amazing student work from your classroom

Support you'll get: presenter training materials, a required slide template, 1:1 prep help (for most session types), and on-site tech support. Accepted presenters receive complimentary registration.

Deadline: Tuesday, February 3, 2026

Prefer to help behind the scenes? Join our [session reviewer team](#) (2-3 hours total).

[Submit a session](#)

[Join the Hall of Inspiration](#)

[Details and agenda](#)

STEMIE Monthly eNewsletters



INNOVATION FOR INCLUSION IN EARLY EDUCATION

[About STEMIE](#)

[STEMIEFest](#)

[STEMIE LTs](#)

STEMIE empowers early childhood professionals, faculty, and families to cultivate inclusive STEM learning opportunities for all young children, with and without disabilities, through daily routines and activities in any environment.

STEMIE Monthly eNewsletters are available for a [free subscription](#) and an archive of past issues is [available here](#). The November issue's theme is Let's Normalize Supports and should be up soon.

Engineering for US All (E4Usa™) Opportunities

Applications Now Open for New [e4usa](#)
Teachers — 2026–2027 School Year

Do you know an educator who would be a great fit for [e4usa](#)? Applications are now open for new teachers to join our 2026–2027 cohort! Selected educators will attend Summer PD in 2026 and gain access to our hands-on engineering curriculum, yearlong support, and national community of practice.

Help us grow our reach—please share this opportunity with your friends and colleagues!



[Apply Now](#)

Sign Up For Our Mailing List

Family members of [e4usa](#) students are encouraged to sign up for our e4usa mailing list! We will use this list to send updates about important events and activities that you may be interested in related to our e4usa program.

[Sign up here!](#)

How Do Self-Driving Cars "See"?

TED Talk

It's late, pitch dark and a self-driving car winds down a narrow country road. Suddenly, three hazards appear at the same time. With no human at the wheel, the car uses smart eyes, sensors

that'll resolve these details all in a split-second. How is this possible? Sajan Saini explains how LIDAR and integrated photonics technology make self-driving cars a reality.

An animated TED talk. [Watch here](#)

How the Fridge Changed Food

TED Talk

What if your kitchen fridge is just the tip of an iceberg that's reshaping the world? Food storyteller Nicola Twilley reveals how the massive "artificial Arctic" we built to keep our food fresh is simultaneously melting the real one. She shows why we're at a critical moment to rethink our relationship with the cold chain and refrigeration — and explores the emerging technologies that could keep food fresh without putting the planet on thin ice.

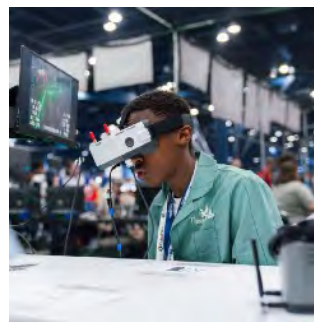
[Watch here](#)

Drones in School News



The Race is On!

We already have over 100 teams registered for the season, and there's still time for you and your students to get in the running! If you are already registered, please review the information in this newsletter to be sure your team has everything set for the best result. If you have not registered yet, check out the items in this newsletter to see how you can get your teams on the leaderboard.



[SIMULATOR RACES](#)
[VIRTUAL RACES](#)

Not Sure How to Get Started? Register for a Workshop!

Having a Drones in School team at your school is awesome. However, getting started from scratch can be a little overwhelming. To help you get your new team "off the ground," we have created an innovative virtual experience that blends hands-on experience with expert guidance to get you the basics to get started. Over 200 educators have taken our workshop with a **96% satisfaction rating!**



Each workshop registration includes one Tinyhawk III + HDZero RTF drone kit, spare batteries, and a license for Velocidrone (a \$500+ value).

A few comments from past participants:

- "You kept us all engaged, opened the floor for questions, and really simplified a seemingly daunting task." - Rebecca H.
- "Thank you for a great presentation, the classes were awesome, and FULL of great information. I'm super excited to get started!" - Michael B.
- "One of the better professional development courses I have attended." - Andy S.
- "Absolutely wonderful!" - Ed M.

Share: www.dronesinschool.com/workshops to spread the word!

[ATTEND A WORKSHOP](#)

[Read full newsletter](#)

The Ohio Innovation Trail



We are thrilled to announce the official launch of our **fourth statewide trail**, the Ohio Innovation Trail. Thank you to everyone who celebrated the launch of the trail with us at Carillon Historical Park in Dayton.

This trail features more than **80 partner locations**, all highlighting the Ohio traits that make innovation thrive across our state.

Learn more about the [newest trail here!](#)

How AI Is Changing Career and Technical Education

[STEM Education Coalition](#)

Much of the focus on the use of AI in K-12 instruction has been on traditional academic subjects and whether the technology is [helping or hurting students' ability to learn](#) the subject matter.



Less attention has been paid to the role of [AI in career and technical education](#) programs. That is the case even though careers in agriculture, cooking, welding, health care, cybersecurity, and other fields are now using AI tools in a variety of ways.

Read the full article [here](#).

How Schools' CTE Offerings Are Going High Tech



Technology is playing a much bigger role in school districts' [career and technical education](#) programs, a shift that experts say started during the pandemic and is continuing as the use of artificial intelligence expands across all sectors of society.

Over the past five years, the most popular category for new CTE programs in schools was for careers in digital technology, IT, AI, and cybersecurity, according to a survey of teachers, principals, and district leaders connected to career and technical education. The survey found that 28 percent of educators said their school or district had started these kinds of technology programs sometime within the past five years.

Read the full article [here](#).

Why Every Home Needs a 'House Handbook'

[HouseOutlook](#)

What Is a House Handbook?

Homeowners know that over time, appliances stop working, walls need repainting, and other inevitable headaches pop up around the house. And when these issues arise, you may not be entirely prepared to deal with them. Let's say your stove conks out — do you have any idea where you put the instructional manual back when you bought it? Or if you need to repaint the living room, can you recall the exact [shade of white](#) you used?

The best way to prepare for these problems is to put together a house handbook filled with necessary information, all in one convenient place. This includes instruction manuals, paint swatches, flooring samples, spare keys, and so on. Keeping these items organized will go a long way toward solving any unexpected issues.

[Read more](#)

Tufts Center for Engineering Education and Outreach Newsletter

Issue 51 includes Getting Started with SPIKE Essential and a free webinar Dec. 4 on early years STEM.

[Read more](#)

Chats With Change Makers



[Watch video](#)

STEM Next

[STEM Next](#) has an asset package of opportunities to energize STEM learning in afterschool and summer programs.

[See OCT-Dec 2025 Asset Package here](#)

Solid Waste Authority of Central Ohio: Virtual Field Trip

Date: Monday, Dec. 15, 2025

Time: 1-1:45 p.m. Eastern



Join Ohio Energy Project at 1 p.m. on Monday, Dec. 15 for a **45-minute virtual field trip of SWACO**, the Solid Waste Authority of Central Ohio.

SWACO serves Franklin County and neighboring areas with solutions for solid waste. They are one of 52 solid waste districts created by the Ohio General Assembly in 1989. These districts were established with the mission of reducing reliance on landfills.

On this tour we will not only get to see how solid waste is managed at the landfill but also learn about the many opportunities SWACO has to reduce this waste. We will also hear from multiple employees across SWACO about their role and impact on the community.

This trip is designed for elementary, middle and high school students and teachers.

[Click or Tap Here to Register!](#)

Make:Able



Make:able is a free, annual 3D printing and assistive technology design challenge, brought to you by PrintLab, Autodesk & partners. The brief is to "Design and make a 3D printed product or prototype that improves the day-to-day life of someone with a disability or the elderly. Then share your story in a video submission for the chance to win amazing prizes." Going beyond a competition, the Make:able Challenge centers around an online toolkit and accompanying interactive PDF workbook, which takes you through a step-by-step process to design and make an assistive device. [Sign up for free.](#)

2025-26 Great Big Home and Garden Show Student Design Contest Update

I am pleased to announce that we are doing the contest again this year. I have linked a few different items here. Rubrics have been updated since last issue.

- 1) [Rules and Regulations packet.](#)
- 2) [Rubrics. now with each section on its own page!](#)
- 3) [Civil plans in PDF form](#)
- 4) [Civil plans in .dwg form.](#)

If you know of someone that may be interested, please forward this information on to them and have them reach out to me so I can get them added to our email list.

Hope you had a good holiday and got some rest.

Our industry partner is still willing to review PDF submissions, but they should have the group number on them and not names. If students, or you, can get me the sign up sheets I'll get group numbers assigned quickly. If your students would like to submit a single PDF (packet) of all their drawings for review, please do so as soon as possible. I will gather them all up and submit them to our industry partner. I will then distribute any feedback they give back to you and your groups.

If you have any questions, let [Erik Ward](#) know.

NEO:STEM Now Newsletters



Building the Future of STEM in Northeast Ohio

Connecting schools, businesses, and communities to inspire curiosity, develop future-ready STEM skills, and open doors to new opportunities.

[Read November 14 Newsletter here](#)

[Read November 28 Newsletter here](#)

The STEM Pulse

STEM news, funding and event information.

[Read the November 14 issue.](#)

STEM Talk: 30-Minute, Monthly STEM Pulse Check

1st Thursday of the month from 12-12:30 EST

[Register for NEXT STEM TALK | Dec. 4 at 12 PM](#)

How To Listen To Past Episodes

The STEM Talk Podcast: The full video, vodcast can be found on [YouTube Podcast](#), and podcast is on [Spotify](#) and other podcast providers.

An Industrious Grocer in the 1930s Wanted To Make It Easier for his Customers To Buy More. They Just Needed a Push

[Smithsonian Magazine](#)

There was a time when shoppers could buy only as much as they could carry. And as ubiquitous as shopping carts are today, it initially took some convincing to use them

[Read more](#)

This Inca Building—the Only Surviving Structure of its Kind — Might Have Been Designed To Amplify Sound and Music

[Smithsonian Magazine](#)

Researchers will use 3D modeling to assess what the “carpa uasi” in Huaytará, Peru, originally looked like and how sound traveled through it.

[Read more](#)

Reboot & Reimagine Ohio Educational Technology Conference (OETC) '26



Get ready to Reboot & Reimagine your approach to educational technology! Early Bird Registration for the Ohio Educational Technology Conference (OETC) '26 is officially open, offering you the best rates to join Ohio's premier ed-tech event. Taking place February 10-12, 2026, the conference is the essential gathering for P-20 educators, leaders,

and technology specialists looking to explore the latest advancements, discover innovative tools, and connect with a vibrant community of professionals.

[Read more](#)

Meet the OETC'26 Keynote Speakers



Tuesday, February 10

Marlon Styles is a recognized inspirational speaker and educational leader. In 2017, he was named a Top 30 Digital Trailblazer by the Center for Digital Education. Under his leadership at Middletown City Schools, the district was awarded the ISTE Distinguished District Award in 2019. He testified before the United States Congress in 2020 to advocate for access and opportunity for all students.

K-12 Dive recognized him as the Superintendent of the Year in 2020 for his advocacy and leadership on a national stage. In 2025, he was named one of the Top 100 Education Influencers by District Administration. He is the author of the book *Make Your Move*. Styles' mission is to inspire educators to see themselves as empowered Unifiers capable of creating the types of learning experiences today's modern learners need to thrive.



Wednesday, February 11

As the CEO of ISTE+ASCD, **Richard Culatta** is focused on creating the next generation of innovative learning leaders. Richard has also served as the Chief Innovation Officer of the state of Rhode Island and was appointed by President Barack Obama to lead the US Department of Education's Office of Educational Technology. His book, *Digital for Good: Raising Kids to Thrive in an Online World* (Harvard Business Publishing), aims to help create conditions for healthy tech use at home and school.



Thursday, February 12

Rebecca Bultsma lives in the messy space between AI hype and AI reality, helping education leaders cut through the chaos and noise to find what actually works for students and educators. With 7 years in district administration and AI ethics research focused on K-12 implementation, she's dangerously good at AI but appropriately worried about its risks. As an AI ethics researcher at the University of Edinburgh and Chief Innovation Officer at Amplify & Elevate Innovation, Rebecca delivers practical keynotes and workshops with actionable strategies educators can implement immediately. She's developed district-wide AI policies, trained thousands of educators internationally, and specializes in responsible AI adoption that enhances student outcomes without compromising educational integrity.

How To Shovel Snow Without Landing in the Emergency Room

[Popular Science](#)

Avoid injury and improve efficiency with tips from a physical therapist.

[Read more](#)

The 25 Most Powerful Ideas of the 21st Century (So Far), Picked by the World's Top Thinkers

[BBC Science Focus](#)

We asked the world's foremost minds to highlight some of the game-changing scientific breakthroughs shaping our world since the year 2000

[Read more](#)

From Hand-Ground Glass to High-Speed Rail: the Role of Fresnel Lenses in Railway Signaling

[Ceramic Tech Today](#)

The world owes a debt to [Augustin-Jean Fresnel](#), the French civil engineer and physicist who invented the eponymous lighthouse lens. His invention saved countless lives by improving maritime navigation, as shown in [an August 2025 CTT](#).

What many people may not realize, however, is that the Fresnel lens left a lasting mark on yet another industry: railways. Today's CTT will shine a light on this chapter of the lens's history.

[Read more](#)

News From Interesting Engineering

[Interesting Engineering](#)

[Urban waste could supply low-carbon jet fuel and cut aviation emissions by up to 90%](#) – A new way to fly cleaner may be hiding in your garbage bin. Scientists have found that municipal solid waste, including food scraps and discarded packaging, could become a major feedstock for sustainable aviation fuel (SAF), drastically cutting carbon emissions from air travel.

[The Future of Space Archives](#) – From moon bases to incredible new propulsion systems, we'll explore the latest tech in a bright new era for space innovation. Video Collection

[Waste cardboard could help power plants in large-scale electricity generation: Study](#) – Researchers have developed a new method to measure calcium carbonate in cardboard, providing a practical tool to assess its suitability as a fuel.

[Meet Sand Hound](#) — The Robot Built to Walk Where Humans Can't – What happens when the military builds a robot that can walk across beaches, dunes, and shifting coastlines without sinking, slipping, or stopping? You get Sand Hound — a four-legged autonomous scout built to dominate terrain that defeats humans, vehicles, and traditional machines

[ARIA: Students build modular EV with 6 detachable batteries for easy home repairs](#) – Students in the Netherlands have developed a revolutionary modular electric city car that can be repaired at home using simple tools, standardized parts and clear manuals.

The Kid Should See This

[The Kid Should See This](#)

Smart videos for curious minds of all ages

Here are some selected videos.

- [How could you tunnel through a mountain 2,500 years ago?](#)

- [How does a tunnel boring machine work?](#)
- [Deeper Underground: Walk the London Tube's pedestrian tunnels](#)
- [Kiribati Warrior Armor: The craft behind coconut fiber and shark-tooth blades](#)
- ["Do It," an interactive installation at Japan's Design Ah! Exhibition neo](#)
- [Bernoulli's Principle and Inertia: Two classic physics demos by Dr. Tatiana](#)

History Facts

- [A foot is 12 inches because it was based on the actual length of a human foot.](#)
- [Listen to the Oldest Recording of a Human Voice](#)

Detecting Deepfakes: Don't Be Fooled by Disinformation I Be MediaWise

[PBS Learning Media](#)

No, that's not really Keanu behind that TikTok account: Students will learn about different types of "deepfake" techniques, how to identify fake videos created by artificial intelligence as well as the positive and negative uses of the technology.

[Read more and watch](#)

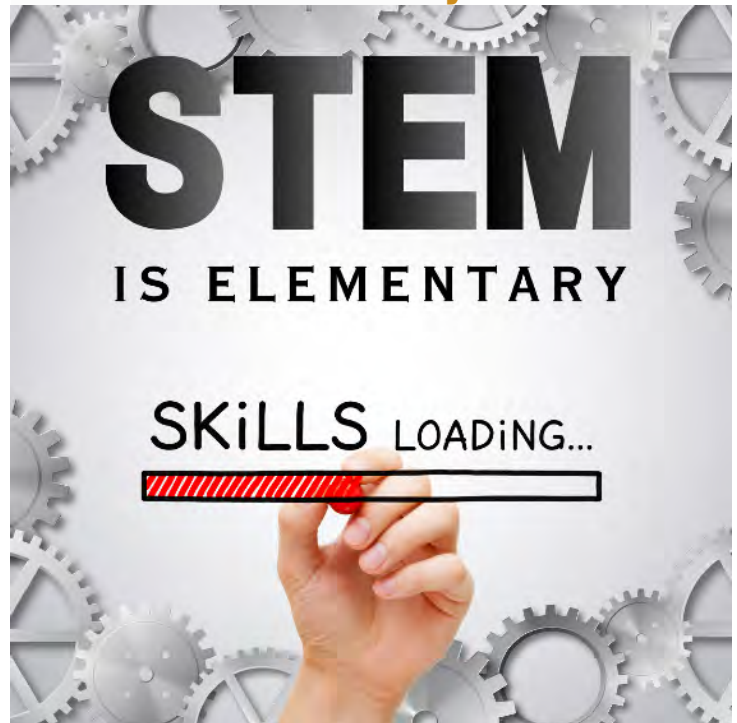
David Kelly on Creativity and Design

How do you use design to work on the most interesting problems? David Kelley, known as one of America's leading design innovators, founded d.school to help bring the visions of his students into fruition. This is David's Brief But Spectacular take on creativity and design.

[Watch here](#) or [wide frame Youtube version](#)

Also [The Sh*tFixers: Bob Sutton Interviews David Kelley, Design Thinking Superstar](#)

STEM Is Elementary



The December issue of STEM is Elementary is [available here](#)

A STEM and Food Family Festival

NWO announces its newest event, STEMPlate, in partnership with BGSU Falcon Food Pantry and BGSU Dining Services.

December 7, 2025

2 pm - 6 pm

Perry Field House, BGSU

Registration is NOW OPEN for STEMPlate!

Registration link: <https://tinyurl.com/2f4ae7fj>

Trailer Hitches 101

[Ask This Old House](#)

General contractor Tom Silva teaches host Kevin O'Connor everything he needs to know about trailer hitches. From tow weight to adjustable height, Tom breaks everything down to make matching a hitch to a trailer a breeze.

[Watch Video](#)



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](#)

This Week's Technology Tip

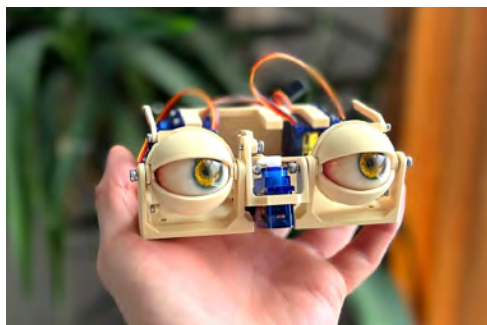
Simple Animatronic Eyes

[Make: Magazine](#)

Build a realistic eye mechanism for live joystick control or automated projects!

Animatronics, once relegated to the realms of theme parks and big-budget movie sets, are experiencing a renaissance in our DIY culture. Whatever the reason, there's excitement surrounding the creation of animatronic marvels. There's never been a better time to embark on your own

animatronic journey! In this project you'll build a realistic eye mechanism you can control with a joystick — and integrate into any project you like!



[Read more and build](#)

“[I am] opposed to the laying down of rules or conditions to be observed in the construction of bridges lest the progress of improvement tomorrow might be embarrassed or shackled by recording or registering as law the prejudices or errors of today.”
- Isambard Kingdom Brunel



Dive in and Discover all ITEEA 2026 has to Offer – Connection, Collaboration, and Learning

Attendees Can Expect

- **Immediate classroom impact:** leave with proven tools, lesson ideas, and implementation tips you can use on Monday morning.
- **Real connections:** network and share ideas with nearly 1,000 like-minded educators and leaders.
- **Immersive workshops:** engage in hands on activities, product demonstrations, and project-based learning sessions.
- **Vibrant energy in Virginia Beach:** explore where learning meets relaxation, and inspiration is just steps from the beach.

New This Year

A smarter schedule that puts the best content when the most people are in the room - Wednesday afternoon through Friday evening.

Save the Date

Dates: March 25-28, 2026

Location: Virginia Beach Convention Center

Audience: Nearly 1,000 technology, engineering, and STEM educators from across the U.S. and beyond

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



Early-Bird Rates through December 5th

- Full Registration (includes most meals): \$579 Members | \$695 Nonmembers
- A la Carte Registration: \$419 Members | \$535 Nonmembers
- Student Registration: \$199 Members | \$249 Nonmembers



Scan or visit
www.iteea.org/2026
to preregister now!

"ITEEA's Annual Conference gives me time to be with other like-minded teachers and get other perspectives on the best way to teach technology and engineering education and merge them with my own. - Zach Glennon, Tech Ed Teacher"

Know a great vendor for ITEEA 2026? Submit the company name, contact, and email to kkadow@iteea.org by December 5th for a chance to win a \$50 Amazon Gift Card!