



Upcoming Events:

1. [Ohio Educators Summit](#) / OTEEA Conference, October 21, 2026, River Valley High School, Caledonia, OH
2. [ITEEA Conference](#), March 31 - April 3, 2027, Louisville, KY
3. National Robotics Challenge, April 15 - 17, 2027, Marion, OH

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.5**

Outreach Notes **P.10**

The Ohio Educator Summit Wednesday, October 21



The Ohio Technology and Engineering Educators Association (OTEEA) is co-hosting the 2026 [Ohio Educator Summit](#) on **Wednesday**, October 21st, in cooperation with River Valley Local Schools at River Valley High School. If you teach classes in nearly any area of technology, you will find a session that applies to your curriculum.

Share what you have learned and what works in your program with others by [applying to present](#) by September 19th! Note: All sessions are 60 minutes.

If you have ideas for speakers or topics that you would like at the Summit please let OTEEA President [Tad Douce](#) know.

More information about the Summit will be shared in coming issues.

NORTech Robotics Competition

Welcome back STEM Teachers, Judges, Industry Partners & Administrators,

Remember to add NORTech to your 2026-27 calendar. Watch for a registration link coming soon.

Competition details:

- When: Mar. 4, 2027 (Snow Date Thursday, Mar. 11, 2027)
- Where: BGSU Student Union
- Registration deadline: Friday, Jan. 31, 2027
- Lunch: Pizza & Pop

There will be an organizational meeting hosted by Worthington Steel

Thu, Aug 27 • 3:15 PM – 4:15 PM

Microsoft Teams meeting

Join: <https://teams.microsoft.com/meet/244880888549476?p=m8iUChalj8IZBAm0Tu>

Meeting ID: 244 880 888 549 476

Passcode: H6ms7Dk2

This is a great opportunity to give your input, and be involved in the discussion around the planning for this event.

1 CEU for participating. Certificates will be provided.

Contact [Gabe Oberlin](#) with any questions.

The Ohio Creativity Trail — Bucyrus Copper Kettle Works



Centuries of craftsmanship in the heart of Crawford County

Ohio's story isn't told only through history books—it's painted on canvases, carved from stone, and shaped in copper! As part of the America 250-Ohio [Trails and Tales](#) initiative, the [Ohio Creativity Trail](#) features over 100 sites celebrating literature, music, glass, and visual arts.

Take a look inside the historic Bucyrus Copper Kettle Works—one of the oldest operating copper works in America. Learn about the tradition, skill, and artistry that have kept this legendary establishment hammering away for generations.

[WATCH THE BUCYRUS COPPER KETTLE WORKS VIDEO](#)

The Daily STEM News

Happy new school year!

Whether it's your 1st or 10th or 30th year in education, or whether you're a parent trying to find more ways to engage your kids with great ideas and learning, I hope that this year is your best year ever! I'm starting my 28th year as a teacher (which means I'll be passing 5000 days of teaching sometime in April) and I'm still learning more each day how to be a better educator!

[Vol 9 Issue 1](#) of The Daily STEM contains news stories on trash being reused (including a Swift/Kelce connection), a STEM career focus on Sports Analytics (be sure to check the links), and some great challenges, puzzles, & mystery photos your kids enjoy!

Answers to Mystery Photos: LED bulb, spray paint nozzle, cardboard

Answer to The Puzzles: holding b in your right hand, & seven

Download or share the PDF versions of every issue FREE at dailystem.com/news. And please share it with teachers and parents you know!

Quick Resources

I love sharing simple ways to get kids doing some STEM filled learning...here's 2:

[The Questioneers](#)... Posters, project ideas, & more based on the RosieRevere/IggyPeck/etc books
[Game About Squares](#)... A simple to learn online puzzle game that requires logical/sequential thinking

Speaking

I had a great time sharing STEM ideas in the [Carly & Adam STEM Summit](#) online in July and in Walled Lake, MI in August, and I'm looking forward to visiting some schools in Ohio this year! If you'd like some help inspiring and building STEM confidence with your teachers or group, let me know...everyone always thanks me for making "PD not boring!"

STEM Everyday Podcast

Some great interviews released this past summer on the podcast (and I try to keep them 20ish minutes because we're all busy):

- [322 Stephanie Higgs](#)...Elementary Teacher, Speaker, and Gifted Education coach sharing loads of classroom ideas
- [321 Joann DiGennaro](#)...Co-founder of CEE & Author of a new Admiral Rickover biography
- [320 Mike McCarthy](#)...VP at a design, engineering, & fabricating company talking STEM careers
- [319 Keven & Cooper Rinaman](#)...Educator (& son) and authors of *Tinker Kid* books
- [318 Tamir Nave](#)...Engineer & Founder of mAlk AI-Powered Robots
- [316 Katie Minihan](#)...One of the Project Lead the Way team that provides great STEM curriculum
- [315 Dr Colleen Kelly](#)...Former College Chemistry professor & current Elementary Science teacher

Let me know what you think or if you'd like to share your expertise on an episode! Just click reply. And don't forget to subscribe on [iPhone](#) or [Spotify](#) or your favorite podcast app!

Let me know if you ever need anything, I like finding ways to help!
-Chris

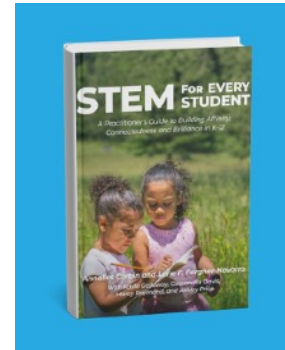
Two Free eBooks to Inspire Meaningful STEM Learning

What if STEM could be more than a subject and instead help every student build the confidence, identity, and purpose to see a future for themselves in STEM?

STEM for Every Student turns three years of research conducted with Battelle into practical strategies educators can use to create intentional learning experiences that help students discover their potential in STEM.

And there's more! We're also offering STEM Affinity, a multi-year study exploring how holistic

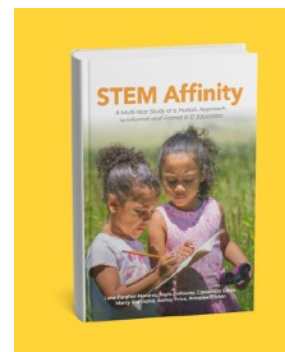
STEM experiences can help young people develop lasting STEM identities, mastery, and purpose.



STEM for Every Student

Discover practical strategies for helping every student build STEM confidence, identity, and purpose.

[Get Your Free Ebook](#)



STEM Affinity: A Multi-Year Study of a Holistic Approach to Informal and Formal

Explore findings from a multi-year study of how informal and formal STEM learning experiences can shape students' long-term relationship with STEM.

[Get Your Free Ebook](#)

Two research-based resources. One simple opportunity to learn more. Both are FREE.

Whether you're an educator, parent, or someone who believes every young person deserves the opportunity to see themselves in STEM, these resources are for you. **Download your free copies today!**

Ohio Council of Teachers of Mathematics (OCTM) Annual Fall Conference

The [Ohio Council of Teachers of Mathematics \(OCTM\)](#) celebrates its 76th anniversary this year with another exciting [annual conference](#). The annual OCTM Conference is taking place October 8-9, at Kalahari Resort in Sandusky, Ohio. This annual gathering brings together mathematics educators from across Ohio to share ideas, discover new approaches, and celebrate the impact of mathematics education.

This year's OCTM conference offers something for everyone, including an Administrator Block featuring sessions designed specifically for building administrators and focused on supporting strong mathematics instruction and student learning.

With engaging speakers, dynamic sessions, and opportunities to connect with colleagues from across the state, the OCTM Annual Conference reflects OCTM's mission to engage, inspire, and empower through mathematics.



The Kid Should See This

[The Kid Should See This](#)

Smart videos for curious minds of all ages

Here are some selected videos.

- [How do Maglev trains work?](#)
- [How to Make a Puppet: Inside the Endangered Art of Marionette Making](#)

New! Explore the OSLN Learning Suite



Looking for flexible, high-quality professional learning? The OSLN Learning Suite offers a growing collection of asynchronous, on-demand courses designed to help educators strengthen STEM teaching and learning. Grounded in the Ohio Quality Model for STEM and STEAM Education, these courses provide practical strategies that can be applied immediately in classrooms and schools. The first course, The PBL Planning Process: Designing Engaging and Authentic PBLs, is now available, with additional courses on STEM partnerships and design thinking launching this fall.

[REGISTER TO RECEIVE THE COURSE](#)

Future City News



The 2026–2027 theme for the [Future City Competition](#) is "**Fire Resilient Future**." It challenges student participants to design a futuristic city 100 years in the future that can successfully prevent, protect against, and recover from catastrophic urban wildfires and disasters in the Wildland-Urban Interface.

[Learn more and become a Future City mentor or coach!](#)



ITEEA News **Transform Your CAD Instruction With Autodesk Fusion**



Build confidence with professional CAD in this **hands-on virtual workshop, September 17–21, 2026**. Designed for educators with no prior CAD experience, participants will learn Autodesk Fusion fundamentals, assembly design, and classroom-ready teaching strategies. The 12-hour program includes live and on-demand instruction, an official Autodesk Certificate of Completion, and lifetime access to the CADclass companion course (a \$149 value). Presented by CADclass in partnership with ITEEA. Flyer below.

[Register today and bring industry-standard CAD skills to your classroom.](#)

Technology and Engineering Education News and Resources

Activities, Contests, Student Opportunities, and New Technologies

Applications Now Open for ITEEA's 21st Century Leadership Academy

Ready to grow as a leader in technology and engineering education? Applications are now open for ITEEA's **21st Century Leadership Academy (21CLA) 2027 Cohort**, a yearlong professional development program designed to cultivate the next generation of leaders, innovators, and strategic thinkers. Participants engage in leadership development, networking, mentorship, and collaborative learning with colleagues from across the profession.

[Apply by December 1 and take the next step in your leadership journey.](#)

Participate in the "Careers in Your Community" Challenge

The U.S. Department of Education has launched the [Careers in Your Community Challenge](#), inviting high schools to propose solutions that enhance career exploration at their

schools. Entries are due by November 19, 2026, at 6 pm ET, and up to 10 winning teams will receive an equal share of the \$50,000 prize pool. CTE teachers are encouraged to review the [challenge details](#), [resources](#), and [evaluation criteria](#), then work with students to identify gaps and opportunities in how their school connects learners with local career, education, and training pathways.

[Subscribe to the CTE Momentum newsletter for updates and reminders.](#)

Discover New Ways To Engage Young STEM Learners

The August 2026 issue of **STEM is Elementary** is packed with opportunities and resources for elementary STEM educators, including empowering students with real-world learning that aligns with CTE pathways, student competitions, professional learning events, maker education opportunities, grant-writing support, student invention challenges, classroom-ready STEM resources, and more!

[Inspire young STEM minds.](#)

Back to School Updates From the STEM Center for Teaching and Learning™

The latest **STEM CTL Newsletter** is packed with resources to help educators start the school year strong, including Engineering byDesign™ curriculum updates, new middle school computer science projects, Autodesk Fusion training, AP Computer Science opportunities through Project ExCITE, microbadge savings, and a free AI tool for educators.

[Explore the latest STEM CTL updates.](#)

Save the Date for ITEEA's 2027 Conference

Mark your calendar for the ITEEA 2027 Conference, coming to Louisville, Kentucky, March 31-April 3, 2027!

The Conference theme, *Taking the Reins: Guiding the Future of Technology and Engineering Education*, invites educators, leaders, and innovators to come together to shape what's next for T&E education.

OSLN 2026 Central Ohio Regional Design Challenge Kickoff Event Info & Registration



The PAST Foundation invites educators and administrators to attend a professional learning session with the Central OH STEM Action Center, a hub of the Ohio STEM Learning Network (OSLN).

Design Challenge Kickoff Event Information:

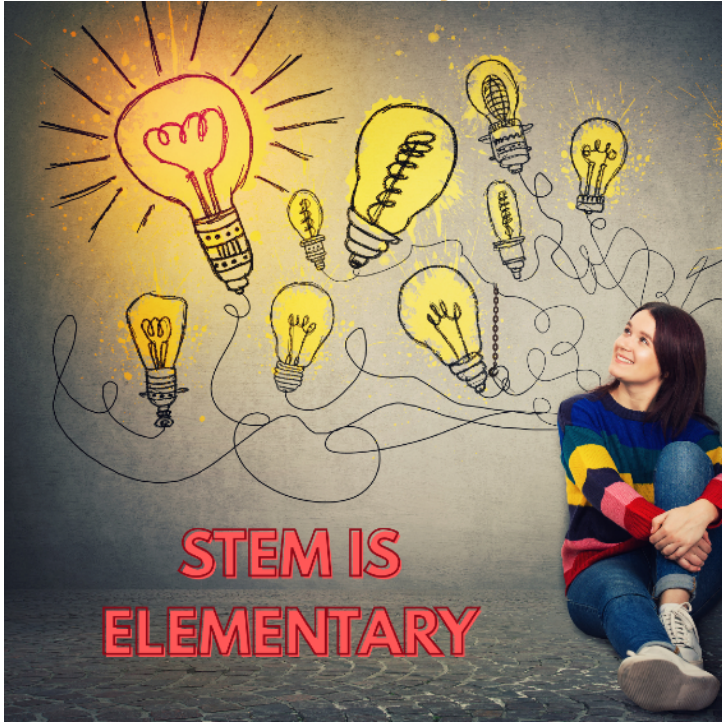
- Date: Wednesday, September 16; 9:00 AM-3:00 PM
- (Light Breakfast and Lunch included)
- Location: The PAST Innovation Lab, 1003 Kinnear Road, Columbus, OH 43212

Each year, the Ohio STEM Learning Network hosts a statewide design challenge where students K-12 can collaborate to create a workable solution to key issues facing our world. Any school in Ohio can participate in the challenge. The design challenge is a great starting point to begin implementing high-quality STEM education best practices in a classroom.

[Register Here](#)

[View Design Challenge](#)

STEM Is Elementary



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

2026-27 Fluid Power Action Challenge Season Kick-Off



The 2026-27 [Fluid Power Action Challenge](#) (FPAC) season launches September 3rd with NFPA's annual Organizer and Host meeting. FPAC is a STEM-based design-and-build competition that challenges middle and high school students to solve engineering problems using fluid power (hydraulics and pneumatics). Along the way, students strengthen hands-on learning with

essential skills in collaboration, problem solving, time management, project management, and communication.

Several FPAC events are listed on NFPA's [Workforce Events page](#) with more to be added as dates are finalized. If you are considering hosting an event, please visit the [Getting Started](#) page to learn more and explore the cost estimator example. Resources for hosts, organizers, and educators will be added in the coming weeks. Please contact James Foster, Workforce Program Manager (jfoster@nfpa.com) with questions.

NOVA News

We hope that you had a wonderful summer break and are feeling recharged and ready to welcome new students into your classroom! With over **1,000 free resources** from NOVA's broadcast and digital productions, our extensive collection on [PBS LearningMedia](#) includes videos, lesson plans, and games to engage and inspire your students.

Join us for a free back-to-school webinar for STEM educators!



NOVA

Refresh Your STEM Toolkit with NOVA

Free Webinar for Educators
Grades 6-12

Wednesday, September 16, 2026
7PM ET



Looking for fresh ways to engage students and enrich your science curriculum this year? Join NOVA and GBH Education on **September 16 at 7PM ET** for an inspiring webinar designed for grades 6-12 science teachers. Discover a wealth of free, high-quality STEM resources that make it easier to bring current science, real-world phenomena, and engaging investigations into your classroom.

[Read more](#)

[REGISTER HERE!](#)



ITEEA Connections

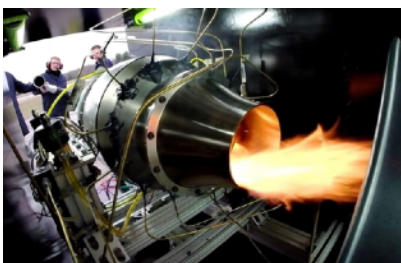
This newsletter strives to present content and opportunities that reflect [ITEEA's Standards for Technological and Engineering Literacy \(STEL\)](#). Many resources including crosswalks, compendiums, articles, and presentations can be found at the [STEL](#) site.

This Week's Technology Tips

From MIT News: Can AI Build a Jet Engine?

How will AI reshape engineering education? MIT's JARVIS Challenge put AI copilots to the test as students designed and built a jet engine, offering insights into the opportunities and limitations of AI-assisted engineering design. The project highlights emerging skills students will need in future engineering careers.

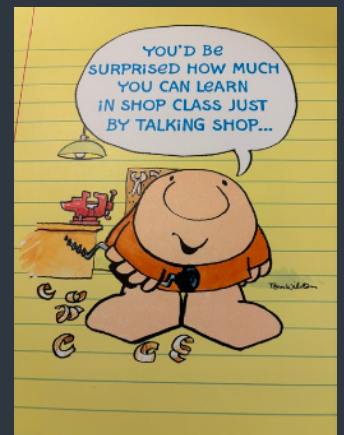
[See how AI is transforming engineering education.](#)



Tested

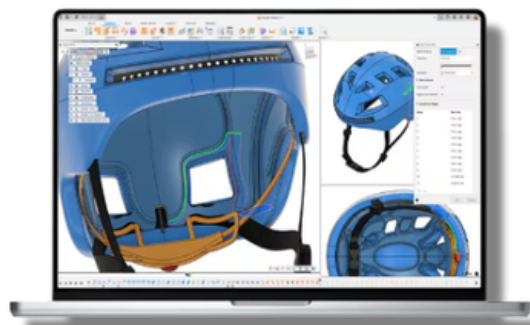
[Tested.com](#) Led by Adam Savage, Tested is a [YouTube channel](#) that explores the intersection of science, popular culture, and emerging technology. Here's where to find out more about us and our crew, where you can see Adam in person and how to send us ideas as well as physical items.

ADAM SAVAGE has spent his life gathering skills that allow him to take what's in his brain and make it real, working with every material and in every medium he could fathom — metal, paper, glass, plastic, rubber, foam, plaster, pneumatics, hydraulics, animatronics, neon, glassblowing, mold-making and injection molding to name just a few.



AUTODESK FUSION FUNDAMENTALS FOR EDUCATORS

Bring professional CAD into your classroom with confidence. This hands-on workshop is engineered specifically for educators to build a working foundation in Autodesk Fusion while mastering the pedagogy needed to teach it effectively.



Virtual Workshop

Live Online Dates/Times: Tuesday, September 15; 6–8pm EDT
Thursday, September 17; 6–8pm EDT
Tuesday, September 21; 6–8pm EDT

Presented by: CADclass in partnership with ITEEA

Format: 12 Total Hours (6 Live Online + 6 On-Demand)

Credential: Official Autodesk Certificate of Completion

Prerequisites: No prior Fusion or CAD experience required

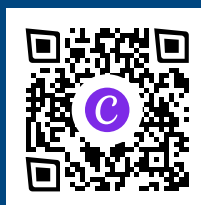
What to Bring: A laptop, an external mouse (highly recommended, and your curiosity)

What We Will Cover:

- **Core CAD Foundations:** Master sketching, geometric constraints, and parametric part modeling.
- **Assemblies:** Learn how to design, constrain, and manage multi-component assemblies.
- **The Educator's Playbook:** Get proven curriculum sequencing strategies, learn how to bypass common student sticking points, and master quick troubleshooting hacks.

Exclusive Bonus Included:

Registration includes free, lifetime access to the [CADclass](#) comprehensive companion course, [Autodesk Fusion Fundamentals for Educators](#) (a \$149 value), giving you an asynchronous curriculum tool to support you this year and beyond.



Register before the September 17 deadline by scanning the QR code or visiting:

www.iteea.org/events/autodesk-fusion

www.iteea.org/stem-center

QUESTIONS?