

# 2022 CTE NEWSLETTER

## FEBRUARY CTE MONTH IN WISCONSIN



In recognition of February's Career and Technical Education (CTE) month across Wisconsin we would like to showcase how students in the Wausau School District are experiencing a variety of career pathways that are preparing them for life after high school.

You might be wondering what CTE is? Career and Technical Education is built on career pathways and strong business partnerships. Students are learning hands-on skills that help in life and in career opportunities. The departments within CTE include:

- Agriculture/Natural Resources
- Business and Information Technology
- Family Consumer Science
- Health Science
- Marketing
- Technology, Manufacturing and Engineering

Quality components of these departments include:

- Academic and Technical Skills
- Career and Technical Student Organizations (DECA, FCCLA, FFA, SkillsUSA), Leadership and 21st Century Skills through public speaking, community service and competitive events.
- Work-Based Learning (Youth Apprenticeships, Internships, Job Shadows)
- Partnerships with industry and post secondary institutions offering dual credits

## **Awards:**

Wausau West Marketing & Business Teacher Mr. Carl Hert was awarded the 2021-22 Red Apple Award at the DECA State Conference in recognition of his outstanding service to Wisconsin DECA, Marketing Education and his commitment and dedication to students. Congratulations Mr. Hert!!



## **Upcoming Events:**

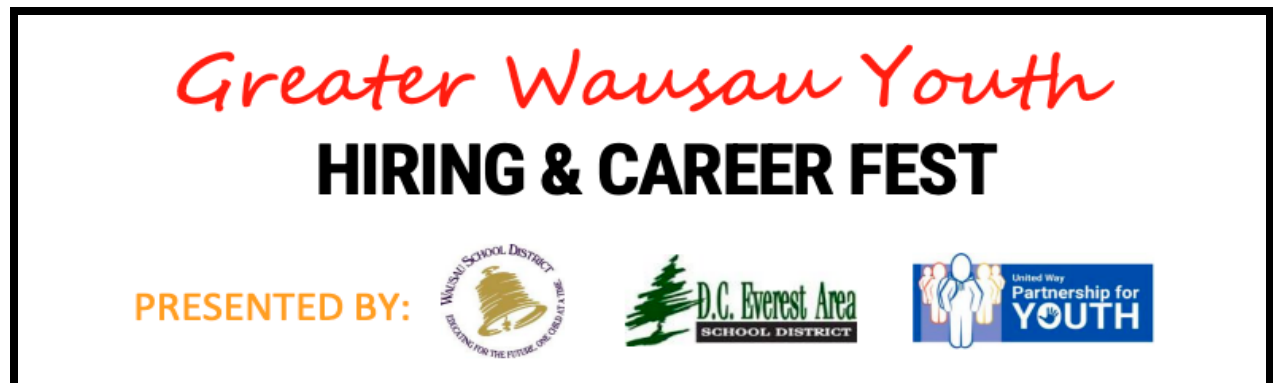
**\*\*\*THIS EVENT WAS RESCHEDULED FOR MARCH 1ST\*\*\***



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**Transportation Careers Expo: Drive Your Future Forward**

Join us on March 1st from 6:00 – 9:00 PM for the [Transportation Careers Expo](#) at Kocourek Subaru for hands-on activities, body shop demos, behind-the-scenes tours, socializing with industry professionals, and more! **Registration has been extended through February 28<sup>th</sup>.** You can register for this event online [HERE](#).



[Career Fair](#) Thursday March 10th at Wausau East High School. This is for any students looking for a job. Students will have the opportunity to talk to businesses, fill out applications, and make connections with local business professionals. All 10th grade students from West will attend and all students from Wausau East will attend the event on their campus. This will be a great place for students to find youth apprenticeship opportunities, summer employment or part-time employment. Wausau West will be hosting this event in 2023!

# **Partnership Spotlight**

Schuette Metals & CTECH Donations

## **Two Industry Partners help advance Career and Technical Education in the Wausau School District**

**Schuette Metals** President John Peterson presented the Wausau School District's Career and Technical Education Coordinator, Jon Winter with a check for \$38,000 dedicated to advancing the manufacturing curriculum with Industry 4.0 equipment at Wausau East and Wausau West.

Industry 4.0 also referred to as a Smart Factory is the interconnection of industrial technologies to produce big data analytics, which promotes applications like predictive analysis (technology alerts you to a problem) and prescriptive analysis (technology generates a solution before the problem occurs). Students will have the opportunity to learn about Mechatronics, Robotic Operations and Production Technician.

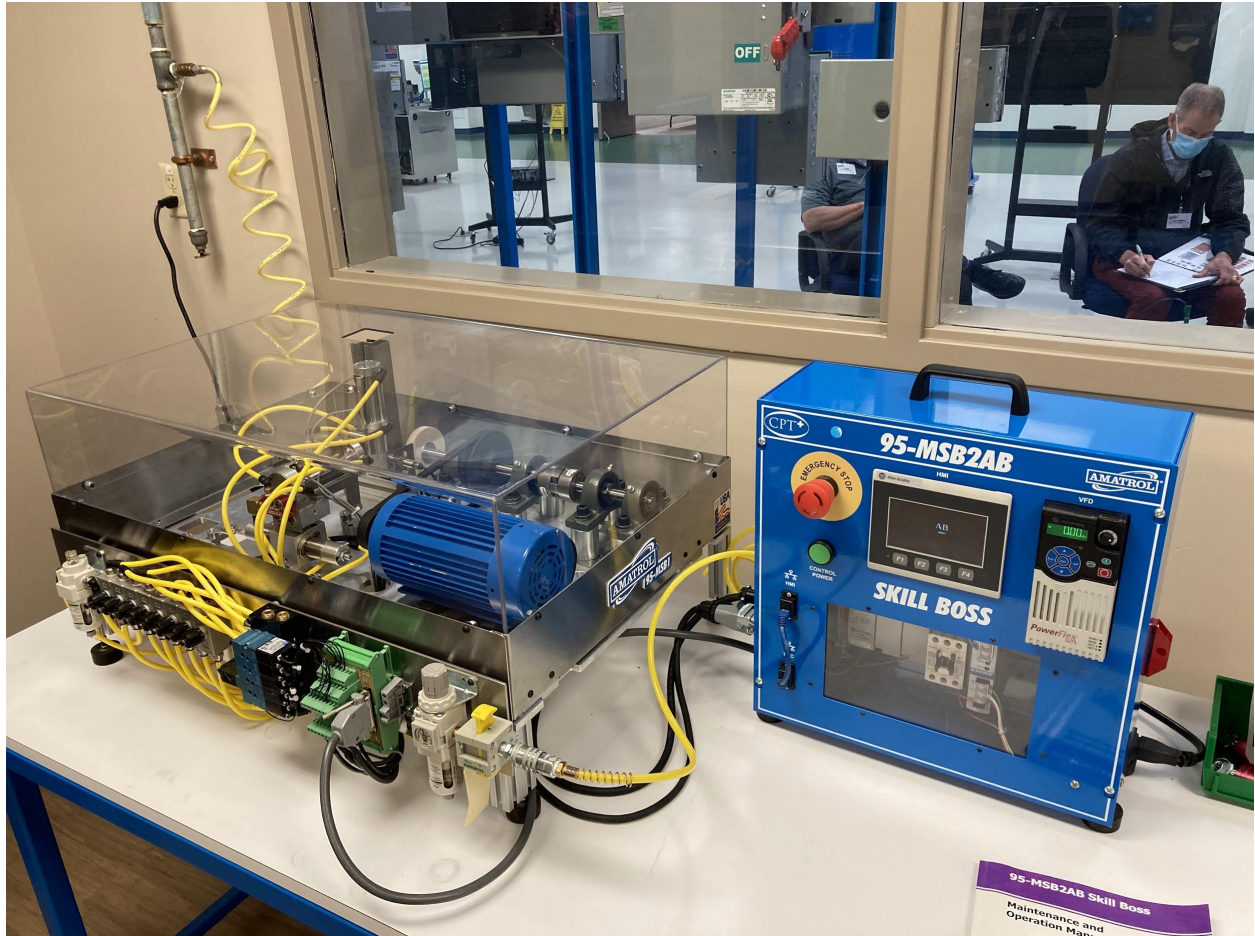
"Schuette Metals has made it possible for us to align our curriculum to Industry 4.0 changes and bring students the technical skills our local workforce relies on. We are thrilled that Schuette Metals has continued their amazing support in the Wausau School District." -Jon Winter CTE Coordinator

Schuette Metals has been a leader in synergizing the manufacturing industry through the Central Wisconsin Manufacturing Alliance, sponsoring high school SkillsUSA students, hiring Youth Apprenticeship students and supporting other district programming like the welding competitions and the 8th grade Heavy Metal Tour.

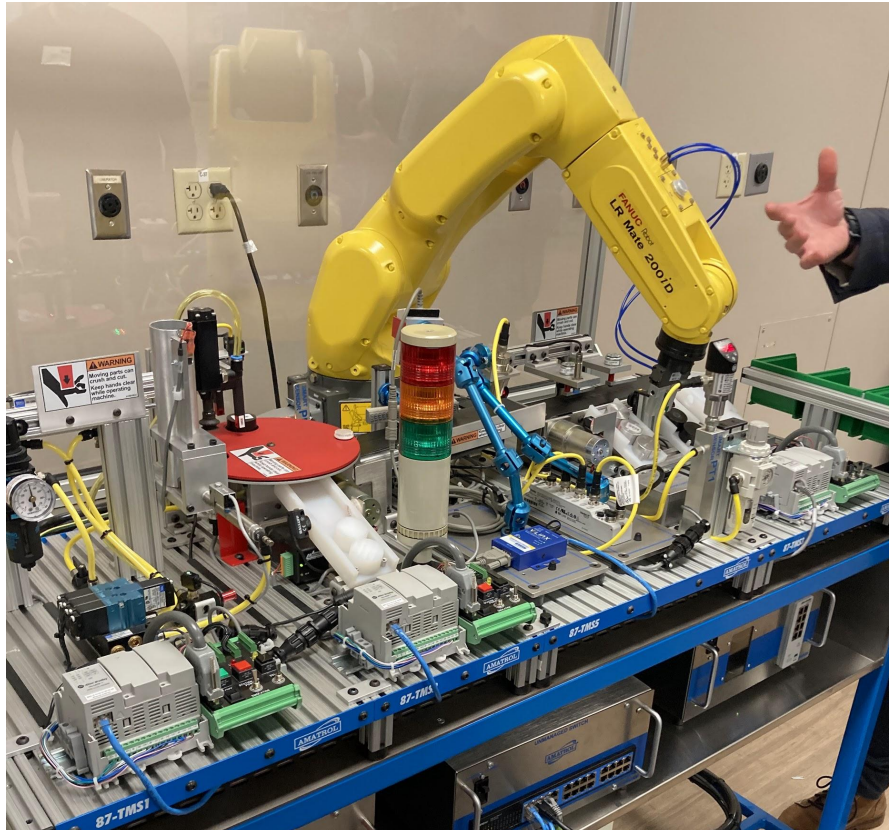
Students at Wausau East and Wausau West will have access to a Fanuc Robotic Arm, a Manufacturing Training and Assessment system teaching students about automation process, robotics and AC/DC electrical process. Students will have the opportunity to earn Smart Automation credentials that demonstrate industry knowledge and skills with Industry 4.0 Advanced Manufacturing Equipment.







Skill Boss Manufacturing



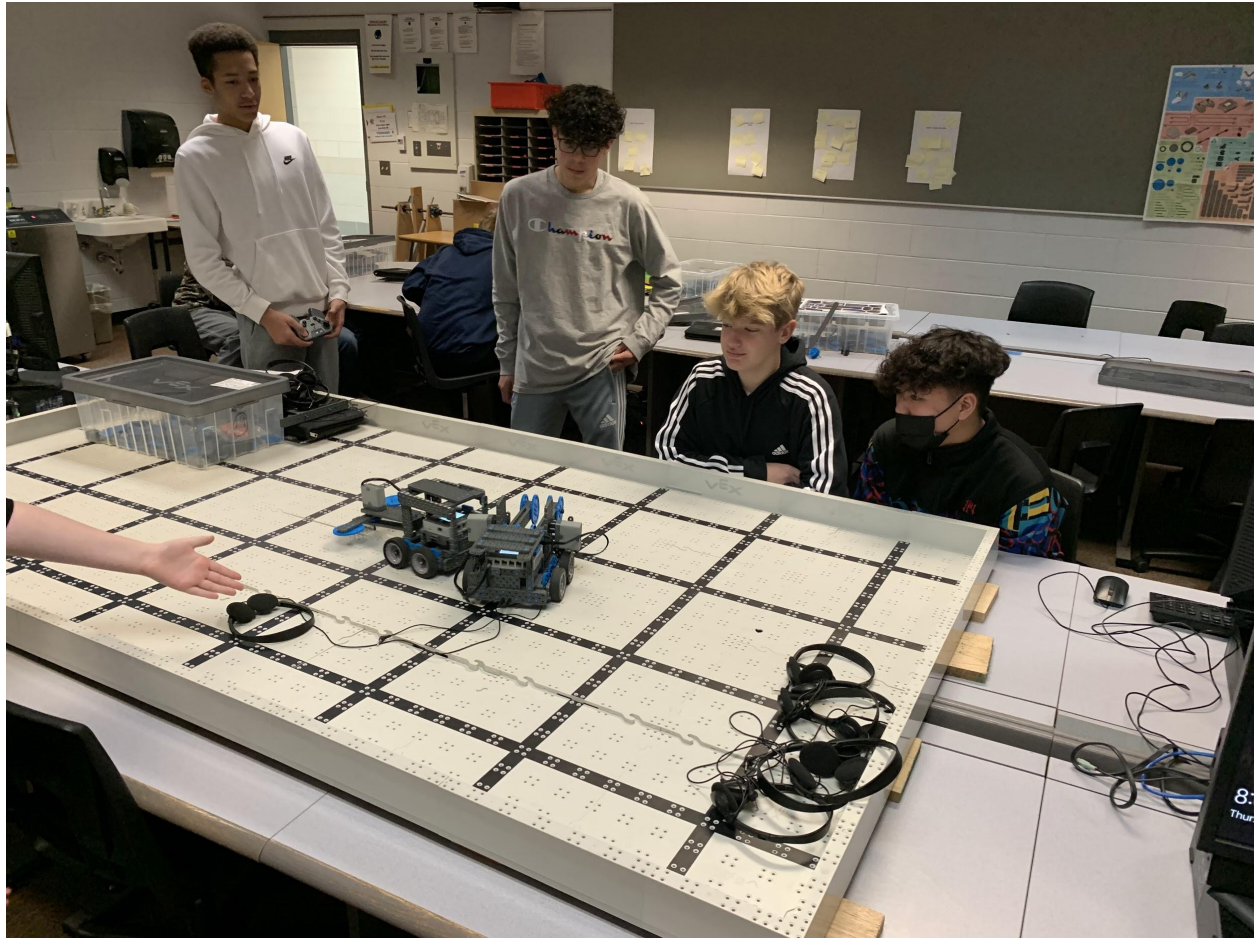
Fanuc Robotic Arm

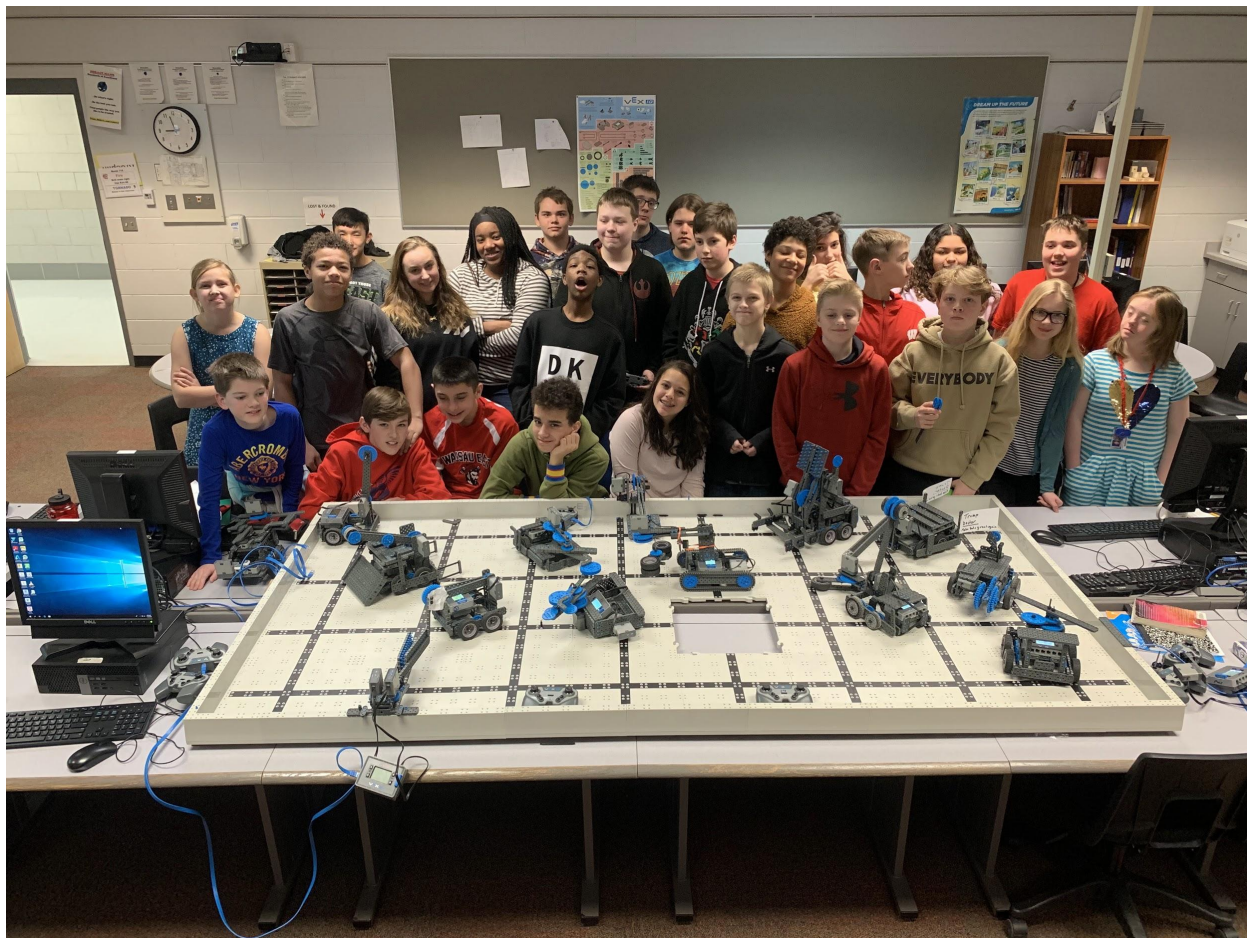
**CTECH Manufacturing and the James D. Greenheck Foundation** donated \$25,000 to start a Vex Robotics after-school program at both John Muir and Horace Mann Middle Schools. As part of the Growing Great Minds (G2M) Out of School Programming, students will be able to learn how to design, build and program vex robotics with the goal of entering a competitive robotics event. Middle school students are introduced to robotics in 7th and 8th grade technology and manufacturing classes and then can extend their learning in after school programming.

CTECH Manufacturing has been a major supporter of STEM and Technical Education programs in the Wausau School District. It's because of their support we now have a grade 6-12 pathway in STEM education and robotics.

"We wouldn't have the great robotics and engineering opportunities for students without their continued support." CTECH also hires Youth Apprenticeship students in STEM, Manufacturing and Engineering and provides field trips to Manufacturing and Engineering classes.







## **AgriScience:**

Advanced Conservation students from East and West built wood duck houses and hung them up at Nine Mile County Forest as part of their Forestry Industry Unit.









## **Family and Consumer Science & Health**

### **Science Pathway:**

Pictured below is a variety of different hands on activities where students have manipulated food to create different body structures including cells and mitosis, which is the base to all body systems, and then they created a bone structure to visualize the components of a long bone, as well as created mouths when we were looking into dentistry which falls under the therapeutic pathway. Students also practiced an autopsy on a pickle. Most recently students did a chicken wing dissection where they learned a lot about the structure and movement of the bones and muscles and how similar they are to a human arm. (Not pictured)





Young Adult Medicine (YAM) students have been receiving instruction on American Heart Association BLS this semester (CPR/AED and First Aid). Our first guest speaker of the month was Katie Herrick, a Radiologic Technician from Aspirus Radiology department.

East ALumni Dr. Anna Bauman and Dr. Ross Lange presented to students. It was interesting for students to learn about Dr. Bauman's journey from high school to her first year as a resident at Dartmouth Children's Hospital in New Hampshire. Dr. Lange brings many years of experience as a family physician into the classroom.



On February 24th students all received a STOP THE BLEED training from Sara Steen, Aspirus Wausau Hospital Trauma Program Director. \*\*\*Pictures to come\*\*\*

## **FCCLA Students Compete at Regionals**

Wausau West FCCLA students participated in the regional competition on February 21 at SPASH. Participants and volunteers included Mathias Lo, Nicolas Ruffi, Elijah Howard, Hadley Hosler, Jennarae Kurtzweil, Magiq McNair, Leisa Tsunoda, Sana Tsunoda and Hailey Reil.

Earning a trip to state include Mathias earning a top gold in Culinary Arts, Nicolas Ruffi earning a gold in Baking and Pastries and Magiq McNair earning a high silver in Culinary Creations. Magiq's theme was the '75th Year of FCCLA'. Congratulations to these students and good luck as they compete at state in April.



## **Grants Awarded:**



Wausau School District CTE department was awarded the Wisconsin Fast Forward Grant through the department of Workforce Development. With the significant partnership donations received in the Tech Ed departments we were able to meet the qualifying 2:1 match to purchase Industry 4.0 equipment and training thanks to the Fast Forward grant program.



Business & Marketing receive funding from the Green Bay Packers Foundation to cover the cost of transportation to Lambeau Field for a business and marketing field trip to learn about all the different careers with the Packers.



## Transportation Pathway

Business partners from **Wisconsin Automotive and Truck Education Association (WATEA)** recently received a large grant to continue partnering with area school districts in the Wheels to Work program. This program provides vehicles to the Wausau East Automotive labs for students to work on and then donates them back into the community to help people in need. We are proud to be a partner in the Wheels to Work program which is recognized on a state and national level.

### **Students Earning Dual Credit in Diesel Technology**

Wausau East students in Occupational Mechanics II class earned dual credits by working through the diesel curriculum today. Students worked on an old semi truck and fixed the breaks, coolant level sensors and completed other diagnostic check points.





**ECMC sends another team to the ACTE Conference!**



Six members of the CTE team attended the Association of Career and Technical Education conference in December. Teachers and Youth Apprenticeship Coordinators heard different approaches, innovative ideas and best practices of how to grow career pathways in our district and community. Breakout sessions and topics included:

- Revitalizing Enrollment, Retention and Performance in a Post-Pandemic World
- Experiential Work Based Learning Opportunities for all students
- Career Academies
- Career exploration in the middle schools
- Strengthening partnerships in your community
- Understanding today's generation

Those that attended heard a national speaker, [Mark C. Perna](#) who will be coming to Wausau on [April 25th](#) to speak at the Central WI Manufacturing Expo in Cedar Creek. See additional information on this event below.

The conference trip was made possible through a generation donation from Educational Credit Management Corporation - ECMC to the Wausau School Foundation. Former Wausau East student and executive of ECMC, Josh Slayton helps support CTE innovation and professional development throughout the country. Thank you Josh, ECMC and the Wausau School Foundation for making this possible.



# 4.0 INDUSTRY BREAKOUTS

The **World of**  
Smart Manufacturing



Dynamic  
Contour Detection

**Gema**

Manufacturing  
Data Analytics

**WIPFLI**

Predictive Maintenance  
for HVAC & More



IT Strategy: What's  
Needed to Implement  
Industry 4.0

**RMM Solutions**

**THESE TOPICS  
& MORE!**

CENTRAL WISCONSIN MANUFACTURING ALLIANCE

## CENTRAL WISCONSIN MANUFACTURING EXPO

Central Wisconsin Convention & Expo Center, Rothschild, WI

April 25-26, 2022

Technology | Manufacturing | Innovation



April 25



**Mark C. Perna**

Unleashing Passion,  
Purpose, and Performance  
in Younger Generations

Join dynamic performance expert Mark C. Perna as he unveils the groundbreaking innovations for working with today's younger generations.

Educators, employers, parents, and community leaders will benefit from these proven strategies to bridge the generational divide, engage and keep young people, and launch them with a powerful competitive advantage.

April 26



**Matt Kirchner**

Industry 4.0 is Here!  
Is Your  
Organization Ready?

In this thought-provoking and insightful presentation, Matt Kirchner explains Industry 4.0 in a way that anyone can grasp its meaning.

How will artificial intelligence, machine learning, digital twins, collaborative and autonomous mobile robotics, machine vision, electrification, 3D scanning, additive manufacturing, smart sensors and devices, and mixed reality transform your market space?

By the end of Kirchner's presentation, you'll know.

Scan Me to register  
for the event:





## **Agri Science & Tech Ed collaborate to add a Woodmizer to it's curriculum!**

Classes in AgriScience and Technology Education are partnering with the Wausau School Forest, WSD Buildings and Grounds and the City of Wausau to produce our own lumber with our very own Woodmizer. A Woodmizer is a portable sawmill that can harvest logs into usable lumber. Agriscience and conservation classes study timber cruising and calculate how many board feet can be produced in a forest parcel. Meanwhile both departments work to cut up the logs into boards for the Woods program. The logs come from a variety of places in the community, school forest or city of Wausau and our students and staff mill up the lumber to be repurposed in our Woods lab for student projects.

In March the Tech Ed department will be presenting at the Wisconsin Technology Education Association Conference on the impact that a portable sawmill can have with students and their department. The Woodmizer was made possible through a generous donation from ECMC and Josh Slayton, WSD Alumn.

























**#STOVESTRONG**





*This newsletter is dedicated to #StoveStrong initiative that was recently created in memory of our former Wausau East Tech Ed teacher Mr. Jake Stachovak who lost a courageous battle with cancer this past December. #StoveStrong was established to honor Mr. Stachovak and help students with their future goals in pursuing the trades. Contributions to the #StoveStrong can be made at either business offices at Wausau East or Wausau West. Applications for students to apply can be obtained in the high school Tech Ed department.*