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FALL/WINTER 2015

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College Design Autonomy

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Grafton High School Students Win Ford AAA Student Auto Skills Nat

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Wisconsin Today WI Project

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Firefighters put out fires... right? Yes, but there's so much more!

Yes, but there's so much more!

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Rebuilding the Life of a 1967 Mustang!

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Wisconsin Today WI Project

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Wireless Electricity? Make the Tesla Coil Work!

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Wisconsin Today WI Project

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Wireless Electricity? Make the Tesla Coil Work!

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Transportation is all around us . . .



HIGHWAY



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AVIATION

. . . functioning efficiently, almost invisibly.



RAILROAD



MARITIME



PUBLIC TRANSIT

An enormous industry “hiding in plain sight.”

Transportation Today WI began as a featured section in our other publication, Teaching Today WI.

- Now in its 18th year of publication
- Current reach: approximately 75,000 readers

Teaching Today WI

- Connects educators, schools and students
- Forum for sharing what works: programs grants, ideas
- Non-political content
- STEM, Business/Finance, Special Education, Health & Wellness, Classroom Ideas Career Exploration.
- Special feature topics in each issue: Agriculture, Construction, Energy/Sustainability



The popularity of the Transportation feature prompted the creation of a newspaper dedicated to Transportation in Wisconsin

FALL/WINTER 2015

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Exploring Transportation in Wisconsin

Transportation Donations Benefit New Richmond High School Program

Page 5 — Studying on relationships with transportation and other companies have resulted in a very successful program. They have received many donations, including cars, trucks, and other vehicles. The program is a great way to help students learn about transportation and the industry.

Chippewa Falls Mustang and Chevy Projects!

Page 6 — These two Wisconsin's Mustang and Chevy projects are in progress. The Mustang project is a great way to help students learn about the automotive industry and the importance of safety. The Chevy project is a great way to help students learn about the importance of safety and the importance of the automotive industry.

LaCrosse Logan High School Partners to Design Autonomous Vehicle

Page 1 — The class will design, program and fabricate the AV which will autonomously drive a distance and to design it to such a way that a percentage of the year's profits will be donated to the school. The AV will be designed and fabricated at Logan High School with the next completion date of October 2016.

See more on Page 4

A special thank you to our advertisers for your generous support!

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Wisconsin Indianhead Technical College → Marten Transport → Interstate Truck Driving School

Fall 2015, Volume 1

TEACHING TODAY WI

WISCONSIN'S K-12 EDUCATION CONNECTION

The Power of a Hashtag

Using social media to connect with other educators and share ideas is a great way to improve your teaching practice. Hashtags are a great way to find resources and connect with other educators who are interested in the same topics. This is a great way to stay up-to-date on the latest in education and to share your own ideas and experiences.

IDEAS Students Travel to Nicaragua to Learn, Serve

The IDEA's leadership students and service team will travel to Nicaragua to learn about the culture and to serve the community. This is a great way for students to learn about the world and to develop their leadership skills. The students will be working with local educators and community members to improve the lives of the people of Nicaragua.

Grow your circle of influence

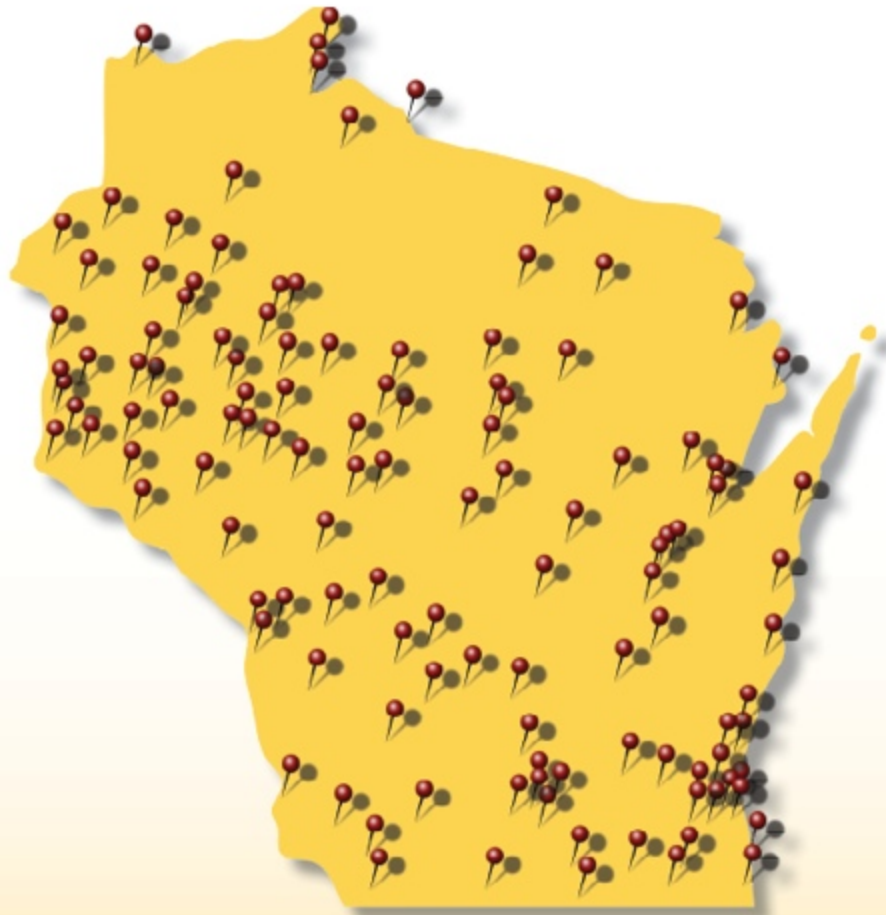
One of the best ways to grow your circle of influence is to connect with other educators and share your ideas. This is a great way to stay up-to-date on the latest in education and to share your own ideas and experiences. You can do this by attending conferences, joining professional organizations, and participating in online communities.

Continued on Page 5

THANK YOU TO OUR ADVERTISERS FOR YOUR GENEROUS SUPPORT!

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- Private Schools
- Middle and High Schools
- College and Technical Schools
- Industry Associations

Read by:

- Students
- Educators
- Administrators
- Industry Professionals

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Our readers are our writers.

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Green Bay East High School Launches City Stadium Automotive



The Green Bay School District

The Green Bay Area Public School District works closely with industry leaders as the necessary to determine how best to design programming with employment demands. One industry that continues to show strong growth and need in the automotive industry, an industry that is expected to realize a 17% increase in demand for auto mechanics by 2020.

which includes careers as an automotive technician, parts sales and fulfillment, and vehicle sales or financing, among others.

On October 18, East High School officially opened the doors to City Stadium Automotive Secretary of Department of Workforce Development Reggie Newton, elected officials, school board members, community members, City Stadium Automotive, District personnel and teachers gathered in the new automotive lab.

new space houses industry standard tools and machinery to provide an authentic experience that allows students to gain a true understanding of a career as an automotive technician.

The addition to the lab provided an excellent need for space for a class that has rapidly expanded in the past four years, excitement for many of the automotive courses seen a rapid increase, nearly doubling the amount of students taking the courses.

East's interactive instructor Rich Sawyer saw the increase in interested students first hand, noting he now teaches just over 125 students in the four-year program.

Along with the classroom expansion, City Stadium Automotive also expanded the curriculum offered for the course.

The updated three-year program includes 540 hours of training through three one-year courses that combine direct instruction with hands-on lab work. Throughout the courses, students are placed into mock business scenarios, and learn about vehicle diagnostics, repair cost quoting, and making vehicle repairs.

Due to this unique training and experience, students are confident in their ability to succeed after their field placement graduation.

"Having the opportunity that a shop like this provides really makes our job easier every day.



Without the support and generosity of local business and students, this would not be possible.

Bob S. Instructor at RTI, is originally from Green Bay, WI and currently part of the faculty at East High School.

Eleva-Strum's Transportation Program Evolving Into a Student-Run Business



Strum's Tech Ed teacher Craig continues his mission to turn his transportation program into one similar to the highly regarded Manufacturing program course at the high school.

A full time maintenance person who has twenty years of experience in auto repair has been hired and he is there to assist students. They can rely on him to help with evaluating or finding a solution to fix a tricky situation.

Along with the professional setting, students have been working on their soft skills.

acquiring a lift had been in the works for several months leading up to the purchase. When the opportunity arose, Cegobila took advantage of business connections to bring in a quality piece of equipment at a very low price. The lift is a great demonstration piece instead of trying to own fifteen students.

under a single car to examine an exhaust system, the lift allows Cegobila to teach without such restraint.

Another facet of Craig's program is auto emergency, and everything that goes along with it. From purchasing, to maintenance, towing, licensing, trading in, leasing, and everything else an informed consumer should know. A vehicle is one of the larger investments his students will

follow. Work is being done with an architect to create a virtual "Dream Shop" that will become a reality. The students are already accruing true business experience. Like Cardinal Manufacturing, they have a student area to run all areas of the business: marketing, engineering, a project manager, and more!

In the Cardinal Manufacturing program students learn to bid on projects, work within deadlines, work with getting customers, and design parts. They are actually working for a paycheck. The program is also self-sustaining and requires no funds from the school district.

While students in the Transportation Program are doing small repairs for now and are learning many aspects of running a business, the goal is to have another successful endeavor operating in the Eleva-Strum Technical Education classrooms.

Another facet of Craig's program is auto emergency, and everything that goes along with it. From purchasing, to maintenance, towing, licensing, trading in, leasing, and everything else an informed consumer should know. A vehicle is one of the larger investments his students will

shop (what to ask, what to look for, trade ins, warranties, and more)

- How to finance a vehicle (the terminology and the responsibilities involved)
- Insurance (the terminology, how to ask the right questions to understand their coverage, what to do if they have a claim)
- Understanding the legal laws and the results of breaking them.
- How to maintain your vehicle and to be ready for all of the seasons

Craig Cegobila grew up in Marshfield, WI, and went on to earn a degree in Technology Education from a Wisconsin University. After Graduation, he taught welding and machining at Angelo High School and started a very successful student-run manufacturing company called Fiat Fusion Machining. Moving closer to family in western WI, Cegobila went back into manufacturing as a union-representative. After a year, he was able to re-enter the world of teaching as the technology education teacher at the Eleva-Strum High School, where he teaches various levels of CAD, welding, machine tool, automotive construction, and woodworkshop.

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La Crosse Logan High School Partners to Design Autonomous Vehicle



Digital Electronics (PLTW) class at La Crosse Logan High School

design and build the Logan Ranger Autonomous Vehicle (AV). This vehicle will be capable of sensing its environment and

AV's sense their surroundings with such techniques as radar, lasers, GPS, and computer vision. Advanced control systems interpret sensory information to identify appropriate navigation paths, as well as obstacles and relevant signage.

The class will design, program and fabricate the AV with the following suggested goals:

1. Design and fabricate a vehicle which will autonomously drive from Trane Plant 4 (East Ave) to Trane Plant 7 (Losey Blvd)
 2. Design the AV in such a way that a percentage of the transportation system will be powered by solar energy.
- Trigresswell Rand is committed to enriching science, technology, engineering and math (STEM) education through educational programs and campaigns, employee volunteerism and other initiatives," said Bob Ellis, plant manager of

define the parameters of the project.

Justin Pitt is a Technology and Engineering Educator at La Crosse Logan High School. He teaches Small Gas and Fabrication, Photography, Video Production, and Graphic Arts. He has been teaching for 5 years.

Steve Johnston is a Technology and Engineering Educator at La Crosse Logan High School. He teaches Digital Electronics, Robotics, Cisco Networking and Computer Construction. He has 27 years teaching experience.

Jacob Schwaner is a first year Technology and Engineering Educator at La Crosse Logan High School. He teaches Building Construction, Woods 1-5, La Crosse's Tech ED, and has an Engineering Degree PLTW.

www.lacrosse-schools.org/logan-high

Design, Build and Test an Electric Car

Engineering Students Learning to Solve Real World Problems



At Antigo High School, Engineering students are putting their design skills to the test, learning to solve real world problems. These students have designed, built and tested an electric car to compete against other schools in the Wisconsin Electrathon. The Electrathon competitions engage students in every step of the design process from gathering ideas through research, creating designs for each of the car's systems, working together to create and assemble the parts necessary to reach a completed vehicle, testing each of the systems in the vehicle and finally reworking or resolving any issues that arise as a result of the design.

At the beginning of the year students in the class must create designs for

a new car frame or modifications that they would like to make to a previously entered car frame as long as it is less than 5 years old. These designs must meet strict safety guidelines as established by the Wisconsin Energy Efficient Vehicle Association. The students must use and further reinforce skills they learned in previous classes offered through the engineering career pathway. Throughout the design and assembly process students must meet strict safety guidelines. Once these designs are made the students must turn their attention to mixing the exact the needed materials to the cost of transportation and other expenses on to the fabrication of spring of each year. It and supplies the students mostly donated by users who have strong ties to here at Antigo. Once if the necessary fund raise start on designing other (including the steering) braking system, electric and safety resistant up to the entire design and

students may end up going back and redesigning systems several times until they reach a working design.

Designing, building and entering an electric car for the electrathon competitions, requires a great deal of teamwork and dedication from students, faculty and parents as well as strong ties to area businesses and technical colleges. Without these, this opportunity would not be available to students. Within Electrathon, responsibility is heavily emphasized because if one student forgets to do a job

design and build the Logan Ranger Autonomous Vehicle (AV). This vehicle will be capable of sensing its environment and

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UGHS Auto Shop tries Bronco Speed and Chopper Shop



Along with the push for technology in the current STEM programs has come a flood of interest in our state's Technology education programs. Some of this interest has led to partnerships and donations from less than likely sources who are finding a renewed interest in the skills and activities that brought many of us into the world of hands on learning. At Union Grove Union High School this has led to several projects that generate quite a bit of buzz around the shops.

The first projects brought to our program were some motorcycles, because the process

bikes can well enough to become a source of well deserved parking lot entertainment. Most of us who have spent time on two wheels will appreciate the smile that it brings to a young person's face to ride of these motorized contraptions, especially after taking pride in the work to get it fixed up and running.

After deeming the motorcycles parking lot worthy, the customization began. Two Suzuki GZ250's met an onslaught of motivated students supplied with a plan, tools and motivation. The first was stripped of body work which was painted the black. The rear suspension was removed and replaced with shock scavenger (also known as coil) adjustable links, creating a hard tail. Trailers were cut down and massaged to take on the desired shape. Forks were lowered on the triple tree clamps and the rear links set just high enough to keep the rear wheel out of the fender. After assembly it resembled a respectable bobber. The second bike was fitted with a 70's era chopper seat and the rest of the body was left alone to give it that cruiser look.

The team 1 Auto 2 Welders and Machine



body work was done and a few layers of flat black brought the project together. The interior is strictly business with two 5-point harnesses and racing buckets. Power will be delivered by a 350 chevy built by the advanced auto stu-

parents and auto parts store owners. Community support has poured in as people who share the same enthusiasm for drag racing learn about our projects and our school's approach to STEM and traditional shop

CAREER CENTER

What would you like to do in Transportation?



- Aircraft Pilot
- Airport Operations Crew Member
- Air Traffic Controllers
- Bus Driver
- Captain
- Chauffeur
- Deckhand
- Deck Officer
- Dispatcher



- Distribution Center Manager
- Distribution Director
- Distribution Manager
- Driver/Sales Representative
- Driver/Sales Workers
- Engineer
- Equipment Director
- Estimating Manager
- Expeditor



- Fleet Manager

- Flight Instructor
- Flight Engineer
- Fork Lift Operator
- Helicopter Pilot
- Import/Export Clerk
- Import/Export Manager
- Import/Export Supervisor
- Industrial Tractor Operator
- Inventory Control Analyst
- Inventory Control Clerk
- Inventory Control Manager
- Inventory Control Supervisor
- Locomotive Engineer



- Logistics Analyst
- Logistics Coordinator Jobs
- Logistics Manager
- Logistics Specialist



- Marine Cargo Inspector
- Marine Oiler
- Materials Control Manager
- Materials Handler
- Materials Handling Supervisor
- Materials Planner
- Merchant Mariners
- Motorboat Operator

- Motor Racer
- Operations Manager



- Packaging Engineer
- Pilot
- Production Scheduler
- Public Transportation Inspector
- Rail Car Repairer
- Railroad Brake Operator
- Railroad Conductor
- Railroad Yard Worker
- Rail Yard Engineer
- Refuse and Recyclable Material Collectors
- Sailor
- Scheduler



- Shipping and Receiving Clerk
- Shipping and Receiving Supervisor
- Shuttle Car Operator
- Streetcar Operator
- Subway Operator
- Taxi Driver

- Top Distribution Executive



- Top Inventory Control Executive
- Traffic/Rate Analyst
- Traffic Clerk
- Traffic Director
- Traffic Manager
- Traffic Supervisor



- Train Crew Member
- Transportation Director
- Transportation Manager
- Transportation Planner
- Transportation Supervisor
- Travel Coordinator
- Travel Manager
- Truck Driver Supervisor
- Van Driver
- Yardmaster

Please note: This represents a broad and not conclusive list of careers within the world of transportation.

Explore Transportation Careers at

www.transportationtodaywi.com

Exploring Careers in Transportation:

- More than we can possibly list on one page!
- Students can see how many opportunities this industry holds.

Why a print newspaper in the internet age?



www.transportationtodaywi.com

- Subsections for each mode of transportation:
 - ➔ Highway
 - ➔ Maritime
 - ➔ Aviation
 - ➔ Public Transit
 - ➔ Railroad
 - ➔ Personal/Recreational
- Resources and Information
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Eleva Stum High School

Highways and Roadways Info...

Aviation Highways/Roadways Maritime Rail Personal/Recreational Public Transit

Did you know that in Wisconsin we have:

- * Over 116,000 miles of highways and roadways
- * Over 4 million licensed drivers
- * Ports that handle in excess of 44 million tons of cargo annually
- * 3.1 million freight cars that utilize the rails each year
- * More than 560 public and private airports, heliports and seaplane bases

*Information taken from the Wisconsin Department of Transportation website.

Transportation Today WI Flip Book
Click on the image to the left to view the latest Flip Book edition of Transportation Today WI.

What's Happening
Click on the image to the left to view the latest events and what's happening.

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TEACHING TODAY WI

TEACHING TODAY MN

MANUFACTURING TODAY WI

Current edition in "flip book" format.

Freedom High School Wins Collision Repair Education Foundation Grant

Page 18 — The grant required the school to form a team of students to study car accidents to determine the best way to enhance safety within the school body shop. How it interacts with the environment, or how it is necessary. The focus of Freedom High School was to reduce the amount of reduced and hazardous waste created.



Green Bay East High School Launches City Stadium Automotive

Page 19 — On October 18, East High School officially opened its doors to City Stadium Automotive. The extensive renovations project nearly doubled the size of the lab, and enabled City Stadium Automotive to house five lift bays, a small engine room and a computer lab.

Building Fuel Efficient Cars: Projects beyond Achieving Mileage

Page 16 — Fueling college has always been the goal of the competition. Building cars lighter, with reduced rolling resistance has always been a goal to students. These projects will definitely challenge their creative and innovative abilities at Lubicon Technology Academies.



Transportation at Rice Lake Warrior Engineering and Technology Education Center

Page 22 — The transportation modes of land, air, water and space (LANSW) give students the opportunity of using their problem-solving and critical thinking skills. Lessons are blended with hands-on activities to strengthen the learning process. Students start with engine concepts and fundamentals and then use water lane parking major engine modifications.



Ethanol Plant Tour

Page 14 — Students in the Clinton High School traveled an ethanol facility as part of their studies. During the tour, Regional manager of the plant, Brian, took them through the ethanol processing. Students are able to see the way in which ethanol is produced and how they produce it and are guaranteed. From the tour, students learned that some of the benefits of using ethanol are that it is renewable, biomass is a renewable fuel source.



Elva-Stram's transportation Program Evolving Into a Student-Run Business

Page 25 — Elva-Stram's Tech Ed teacher continues his mission to turn his transportation program into one similar to the highly successful (and) manufacturing program currently in place at the high school. Along with the professional setting, students have been working on their soft skills. Work is being done with an emphasis to create a "Student Story" that will become a reality!

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New Richmond Transportation Program Continues to Grow



The automotive program recently received four cylinder engines from a very generous company in Mukwonago. The two brand new four cylinder engines that will allow us to expand our curriculum into automotive engine rebuilding. We have been working on relationships with our local distributors, and auto service centers. We also received a visit from a community member of our school, from a local business, and health care center. All of the donations help in the learning of students giving them hands-on real life experiences in the automotive industry. We thank everyone for all the support!

Technology Education instructor Tom Laska, and the High Mileage Vehicle Team is working hard to create two vehicles for competition. We plan to attend a Wisconsin University compete Friday & Saturday, April 17th & 18th and a legging event in Wisconsin Thursday & Friday, May 14th & 15th.

Technology education instructor Robert Vagle and the New Richmond Plus Robotics team are working with a national sponsor and working to prepare this year's team for the regional competition taking place at the Wisconsin (Madison) State Fair and (Oshkosh) Peoria State Fair in the heart of a community center. Last year was the first year for the New Richmond School District's Plus Robotics team. We were extremely successful and had several engines awarded. We are so fortunate to have beauty five engine of the quality to support our program. The engine is very quiet in teaching the operation of a four stroke. Each student is assigned an engine to take apart, measure and overhaul projects. When the engine are disassembled and guidelines are met the assembly begins. All students test the engine when they are complete. Thank you to those for the engine donations and the support of our program.

James Wright, Automotive instructor, New Richmond High School

Chippewa Falls Mustang & Chevy Projects



Mustang Project
 So far we have had about 20 students work on it in various capacities, which can be challenging to keep up with teaching the many students about various automotive procedures, but they are adding on quickly, plus the club members are the ones who are

reentering and giving the direction on what we need to be working on as we grow again.

The automotive program will also be working with the Art Department to have students draw and design the final look of the car along with working together with other resources in the Technology Education Department as well, such as Welding, Metal Fabrication, Electronics, and Graphics to create a new look.

Chevy Bel Air Truck to Become Coach
 We are also working on making a 34 Chevy Bel Air truck that we are going to make into a coach to use in the Tech Ed Department courses area. The coach project will give our students an experience in metal fabrication, which can be used in working on any future projects along with allowing the entire school to view what we can do in our program.

Overall we are off to a great start this year and we are really excited to keep things moving along!

Our new 34 Chevy Bel Air truck is currently in the shop and we are working on making it into a coach to use in the Tech Ed Department courses area. The coach project will give our students an experience in metal fabrication, which can be used in working on any future projects along with allowing the entire school to view what we can do in our program.

Overall we are off to a great start this year and we are really excited to keep things moving along!

David Wright, Automotive instructor, Chippewa Falls High School

Auto Club

The Chippewa Falls High School Auto Club is open to all students grades 9-12. Right now we have 10 members whom are all involved in various capacities, depending on their ability and schedule. We started the club to give students the chance to all get some exposure to the environment whom may not always be able to take a look at cars every semester due to scheduling conflicts. This gives them a chance to see what's going on in our programs and an opportunity to get involved with whatever projects we may have going on at the moment. We need every member to go over to the Mustang project (along with general car maintenance as well). They are also working on redesigning the display case in the hall way for our automotive program and they will start planning for the car show in the next month or so.

Every degree in Technology Education. The first 3 years after graduating from high school you can get the lowest rates at 1 annual 2 college degree's, because a Good Member Certificate and an ASEE Member Certified Student.

Chris Diphilus, Tech Ed instructor, Chippewa Falls High School

Includes live links. Connects students, educators & industry.

Testimonials:

“From my perspective, the *Transportation Today WI* publication has increased the awareness of transportation related curriculum in Wisconsin and encouraged programs to raise the bar. The newspaper is a powerful sharing resource. We have transportation programs aspiring to be in the publication, and highlight the good things they are doing.”

*Brent Kindred, C.S.D., Career and Technical Education Team
Wisconsin Department of Public Instruction
SkillsUSA Wisconsin*

“*Transportation Today WI* has been a critical tool for the Wisconsin Counties Association to get its message out on the importance of local government and counties to targeted demographics such as students, youth, and education faculty. We have received great feedback regarding the publication of columns in *Transportation Today WI* and appreciate the opportunity to communicate a positive message with a unique demographic.”

Dan Bahr, Wisconsin Counties Association

Testimonials:

“Transportation Today WI has made great strides in the last couple years. Many TDA members are using your publication to reach young adults at a time when they are just starting to think about what they want to do when they grow up. And we learn from your publication, too. Hats off to you for creating Transportation Today WI newspaper offering such new and interesting learning opportunities in transportation-related areas.”

*Craig Thompson, Executive Director Transportation Development Association of Wisconsin
Debby Jackson, Director of Marketing Transportation Development Association of Wisconsin*

“I have found Transportation Today WI to be a great source for sharing ideas. I enjoy reading about high school level projects that other schools are working on. It also is a great source for promoting the work students are doing at the high school level.”

*Steve Johnston
Logan High School Technology & Engineering Dept.
La Crosse, WI*

Testimonials:

“I enjoy reading the *Transportation Today WI* newspaper and learning about what other schools are doing. Too many times teachers do not get out and see what is going on in other school and industry.

Almost each time I have written an article (for the newspaper) I have received a number of calls/ emails from other educators to either discuss our programs or to visit the school. Also important have been the connections with the local business communities and ability to successfully receive grants as a result of my articles.”

*Craig Cegielski, Technical Education Educator
National Rural Educator of the Year
Eleva Strum School District*

“*Transportation Today WI* is not only a great resource for teachers and students, but it’s a free resource. I talk to teachers all over the state who share it with their students and post articles on the classroom bulletin board. School counselors use it to keep informed about Transportation issues and Career opportunities. Thank you Renee & Larry, keep up the good work!”

Joe Ciontea, WTEA Executive Director

Testimonials:

“I feel the paper has brought awareness to a lot of people on what not only our program is doing but gives a sense of what high school students are capable of when given the opportunity to excel in the skilled trades area.”

*Travis Tainter, Automotive Instructor
Chippewa Falls High School*

“The newspaper has been a very useful tool in the transportation classroom. I have read articles to students on current trends going on in the automotive area. I like to see what is going on in the state on transportation projects. It is nice to see what other school districts are doing to encourage students and teach them about all the modes of transportation, and the careers associated with the transportation field. The newspaper has been a great resource, it would be nice to have it published monthly. ”

*Jeremy Vogler
New Richmond
Automotive Instructor*



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Wisconsin Teachers' Union Supports Transportation Education

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Grafton High School Students Win Ford AAA Student Auto Skills National Competition

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