

Interface

Journal of the WTEA

Fall 2015

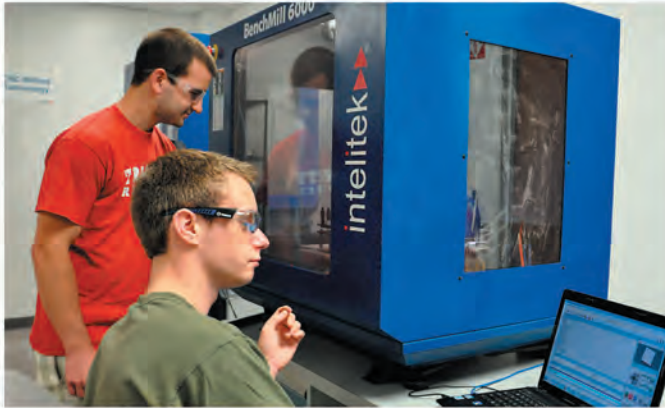
Volume 55 Number 1

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The WTEA Membership fee is not refundable. The WTEA School Subscription fee is not refundable, but is transferrable to other staff in the same school district. The portion of the non-member conference registration fee equal to the amount of the WTEA membership fee is non-refundable. Refunds for Conference Registration and/or Awards Banquet must be received by US Mail or by email at least 15 days prior to the event. Exhibit space cancelled after Jan. 10th will be subject to a \$100 cancellation fee. No refunds will be given for exhibit cancellations within 45 days of the event.

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Through the Fog

By Jesse Domer, WTEA President

I hope everyone is as excited as I am to teach our youth, lead our schools, influence our profession and continue making a difference. September is an amazing time for our classrooms as we try new curriculum ideas and create positive relationships with our classes. I also wish the best for those new, moving, or returning teachers around Wisconsin, as you venture into new territory.

We are entering this school year with many unknowns around us, in and out of our classrooms. I assure you the WTEA is continuing to watch the political movements from the governor's budget, which has included an alternative licensure procedure for our profession. Though we do not know all the details yet, we will continue to be a part of this process where we can. The WTEA Board of Directors will soon be discussing our involvement in this licensure process, considering we clearly told Madison multiple times we did not approve, and yet we are still named in the bill. We have received permission from Attorney Tony J. Renning to reprint his analysis of the language. It appears elsewhere in this issue of the Interface. Though this topic (and others) may be creating a fog around our vision to the future of Technology & Engineering Education, I plead to everyone to keep your sights on our students and communities. We entered the education profession to make a difference and teach youth. Please keep that focus as the fog continues to roll in.

Change is always upon us, be it our desire or others. Though I hope this is not another year of new initiatives in my school, I ask everyone to keep an eye on your personal goals and manage your own to-do lists. I hope that some of you have your sights on larger goals; such as leadership in WTEA or SkillsUSA, starting new Supermileage teams, or hosting a FIRST Lego Tournament.

It is through strong individuals around Wisconsin that our profession continues to be strong. There are currently openings on the WTEA Board of Directors - email any of us with your inquiries. With that said, I would like to welcome Jon Larson, from Little Chute, as our newest WTEA District Director.



This past summer has been another great networking opportunity for so many of our educators. Whether you attended a PLTW Training, or the Automotive Technology Summer Institute, or the WEEVA build week, or just visited with some colleagues catching up, please keep these and more experiences going forward. I encourage all of us to reach out to our neighbor schools and

offer support, especially as there continues to be major movements of teachers around the state again. These support networks can save a teacher from leaving the classroom, and keep the WTEA strong. The "Good Old Boys Club" is everyone - reach out and grow the group one teacher at a time. Speaking of a strong WTEA, are you registered for this year's WTEA Convention in February? We are returning to the Chula Vista and plan to keep the momentum moving forward. I encourage you to bring a colleague to the conference this year!

I look forward to speaking with many of you this school year, whether it is at a Fall In-service, WEEVA Workshop, SkillsUSA Competition, WTEA District Meeting, PLTW Conference, FIRST Lego Regional, BattleBots Event, Electrathon Race, HTEC Conference, or just visiting schools. The WTEA Board is here to support you. Please reach out and take advantage or step into a leadership role yourself this year. For those looking for more - The WTEA is also beginning its search for the next President-Elect for the 2017-2020 term to follow Steve Meyer's footsteps.



WTEA BOARD NEWS

Spring 2015 WTEA Board Meeting Highlights

by Matt Schultz, WTEA Secretary/Treasurer

The following summary highlights the 2015 Spring Conference WTEA Board of Directors Meeting held March 24th in Milwaukee, Wisconsin.

- WTEA Annual Spring conference will be back at Chula Vista Resort in February 2016.
- WTEA President Elect Steve Meyer & Secretary/Treasurer Matt Schultz will be installed during the business meeting on Wednesday.
- Joe Ciontea gave an update on our financial status.
- Joe Ciontea & Steve Johnston reviewed registration procedures and logistics for the WTEA events on Wednesday.
- Pete McConnell reviewed expectations and procedures for ITEEA events Thursday thru Saturday.
- University reports: Technology Educations students are low across the state. Encourage students to consider the field of teaching tech-ed.
- Wisconsin Parkside & Gateway Technical College are offering a new joint 220 license for non-traditional students who are interested in teaching Technology Education. Contact: Mary Jo Jiter jiter@uwp.edu.
- SkillsUSA State Conference April 26th - 28th in Madison, Wisconsin at the Alliant Energy Center.
- WEEVA Events:
 - UW-Stout - April 15th and 16th
 - FVTC/WIR - April 22th and 23th
 - UW-Platteville - April 29th and 30th
 - Road America - May 9th and 10th

*For additional information about this meeting contact any member of the Board of Directors.
Complete minutes are available from Matt Schultz at mjschult@kUSD.edu.*

Spring 2015 WTEA Annual Membership Meeting Highlights

by Matt Schultz, WTEA Secretary/Treasurer

The following summary highlights the Spring 2015 WTEA Annual Membership meeting held March 25, 2015 at the Hilton City Center, Milwaukee, Wisconsin.

- ITEEA Executive Director, Steve Barbato, addressed the membership and complimented the WTEA planning team on a successful conference.
- Dawn Tabat, Founder & Chairman of GPS Education Partners, gave a keynote address, "The Value of Skilled Training and STEM Education."
- President Jesse Domer gave a speech "Hills and Valleys" commenting on teachers success and hard times and to always keep moving out of the valleys to the hill tops.
- Bill Smith from Precision Metalforming Association spoke to the membership about manufacturing in Wisconsin.
- Steve Meyer was installed as WTEA President-Elect and Matt Schultz was installed to begin another term as Secretary/Treasurer. Steve addressed the membership and spoke about his goals for the association.
- Joe Ciontea gave financial reports for the association and the foundation. He also shared information about attendance and conference sponsors. Joe reminded the membership that the WTEA Foundation receives a donation from each purchase made at Smile.Amazon.com.
- The WTEA Directors were introduced, followed by a reminder for the foundation raffle.

*For additional information about this meeting contact any member of the Board of Directors.
Complete minutes are available from Matt Schultz at mjschult@kUSD.edu.*

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District A

Sylvia Tiala



Welcome back everyone! I am looking forward to continuing to connect with all of you in District A and beyond. I would like to have at least one fall meeting and one spring meeting. We have all sorts of options available including tours of your labs, industry tours, workshops, and more. Please help me serve you by letting me know your interests and needs. Feel free to contact me at tialas@uwstout.edu and I will do my best to set something up that is of interest for you.

Stout has seen a number of changes during the summer. We are welcoming a new provost, Patrick Guilfoile (<http://www.uwstout.edu/admin/provost/index.cfm>), to our campus. Carol Mooney, of Stout's Career and Tech-

nical Education program, retired this past summer (<http://www.uwstout.edu/news/articles/Mooney-top-graduate-instructor-faculty-staff-recognized.cfm>). Urs Haltinner (<http://www.uwstout.edu/faculty/haltinneru/index.cfm>) will replace Carol as the program director for the Ed. S. in Career and Technical Education. Brian McAlister is the new director of the Technology Education program (<http://www.uwstout.edu/programs/bste/contact.cfm>). Please feel free to contact these people if you have questions about Stout's programs.

This is going to be an exciting year that is full of opportunities to collaborate with one another. With this in mind, save the date for WTEA's spring conference that will be back at the Chula Vista Resort in the Wisconsin Dells on February 25-26, 2016. I look forward to seeing you there!

WTEA Awards Nominations

Each spring the WTEA recognizes Technology Educators, Industry, and Technology Education Programs that have demonstrated outstanding achievement at our annual awards banquet held at the WTEA Spring Conference.

The WTEA needs your help, as educators, to identify these worthy teachers, programs, and other professionals that deserve recognition. The WTEA is looking for educators that are going above and beyond in their classroom. The WTEA has a variety of award categories that cover teachers, programs, and examples of classroom excellence. Members are encouraged to visit the WTEA's Awards page on the website. There you will find the criteria for each award. As a profession, we need to continue to recognize greatness in our profession. The WTEA Awards Banquet gives us that opportunity.

The awards committee will contact the nominee and request information regarding the nominee's curriculum, achievements, and contributions to Technology Education along with letters of endorsement. To nominate a teacher, program, or industry, contact Matthew Schultz, Secretary/Treasurer or Joe Cointea, Executive Director and tell us who you wish to nominate, where to contact them, and why you feel they deserve recognition from our association. All nominations must be sent by U.S. mail or by email. The awards banquet will be held as part of the WTEA annual conference.

Notes:

- Nominations must be received by November 15th to be considered for recognition the following spring.
- To be considered for recognition, the Technology Educator must be a current member of the WTEA and have a history of WTEA membership during the previous school year.
- For a detailed description of the awards, please visit our website or contact any board member.

Lakeview Technology Academy

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WTEA Awards Committee

Joe Cointea

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Fond du Lac, WI 54936



WTEA EXECUTIVE DIRECTOR

Fall: The Season of Change

By Joe Ciontea, WTEA Executive Director



Fall brings us many changes: the temperature and humidity start to fall, the leaves change color, and baseball gets ready for the playoffs while the NFL regular season begins. Most importantly

by promoting relevant curriculum, communicating information, providing staff development, and the networking of education, business, and industry – let us help.

I hope you had the opportunity to attend the WTEA/ITEEA conference in Milwaukee last March. We did a great job of showcasing Wisconsin Technology & Engineering. Be sure to mark your calendar now for February 25-26, 2016

for us, teachers and students return to school. Fall brings Technology Educators new classes, new students, maybe even some new software or lab equipment. The new school year always has challenges and some uncertainty. If you need some curriculum advice or an equipment recommendation reach out to your colleagues in the WTEA for answers. Be sure to take advantage of the Tech Ed listserve, the WTEA website, and the new Wisconsin Technology & Engineering Community on Google+. Need a personal contact? WTEA Board members are just an email away; we are all part of the same team and we want you to be successful. The WTEA strives to provide proactive leadership in advocating the advancement of technology & engineering education



when our state conference returns to the Chula Vista Resort in Wisconsin Dells. It is a little bit earlier this year. I am pleased to announce that we will be expanding the Project Showcase to a two-day event, with setup beginning on Wednesday evening. Watch the WTEA website for details and updates on the 2016 conference.

Take a few minutes and nominate a colleague for a WTEA award, then attend the banquet in February and help celebrate their achievements. Looking to provide some leadership to our profession? The WTEA is looking for members to step up and join our Board of Directors. Call or email President Jesse Domer for details.

Have a great fall!

Check out the webpage for the new licensing rules at <http://tepd.dpi.wi.gov/licensing/tech-ed-exp-pathway>

- Dates to Remember -

October 28-30	Career Pathways Network National Conference	Dallas, TX
November 15	WTEA Award Nominations Due	
November 19-22	ACTE National Conference	New Orleans, LA
December 22	WTEA Early-Bird Registration Deadline	
February 25-26, 2016	47th Annual WTEA Conference	Wisconsin Dells, WI
March 2-5, 2016	ITEEA Annual Conference	Washington, D.C.
April 26-28, 2016	SkillsUSA State Conference	Madison, WI.

SUBSCRIPTION

Interface School Subscription



The WTEA school (building or district) subscription provides you and your local colleagues with an opportunity to keep informed about technology education in Wisconsin. The more local technology educators you sign up, the more you save. An individual subscription is \$30, but you can sign up 6 people for only \$125 - that's a savings of \$55 (see fee schedule listed below). Each additional person beyond the initial 6 is only \$10.

How it works:

Complete the form below and list every technology educator in your building. If your department has teachers in more than one building, duplicate the form and provide us with the correct school address for each educator. That way separate buildings in the same school district can be combined to increase your savings. All names listed must be employees of the same school district. Tally the fees on the form and send it along with a check or school purchase order to the address on the bottom of the form. **To be eligible for all benefits of this special pricing, school subscriptions should be sent as soon as possible.**

What you get:

Each person receives: a personal copy of the *Interface*, all association mailings and notices, invitations to attend regional technology education meetings and workshops, unlimited access to the WTEA website, discounted admission to the association's annual technology education conference, and eligibility to receive all association awards (educator of the year, program of the year, award of excellence, 25 year award). All mailings will be sent to the school address on the form. This school year subscription will expire the following fall. This form will be published in the *Interface* each fall; it is also available on the WTEA website.

Please type or print all information. Duplicate this form as necessary.

School District _____ School Name _____

School Address _____

School City _____ State _____ Zip _____

Phone (_____) _____ School Fax _____

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Local Tech. Ed. Contact (Dept. Chair, LVEC, etc.) _____

Email address of local Tech. Ed. contact _____

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Each additional person is \$10 each; names and school address may be attached on a separate sheet.

Please note: The Interface is published 3 times per year: fall, winter and spring.

**Send this form with check or Purchase Order to: WTEA PO Box 1312 Fond du Lac, WI 54936-1312
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New Communication Resource For Technology & Engineering Educators



Google+ is Google's version of a social network. It brings the features of Twitter, Facebook, Instagram, and Skype into one interface. Google+ is one of the best places to go for professional development, news, general information, and now we have this option

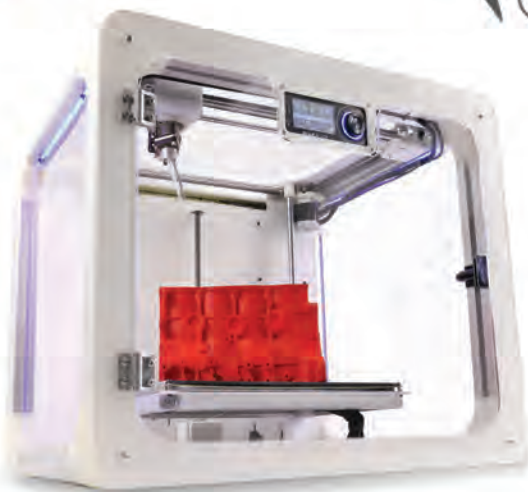
for us. We know many of you are on the Technology and Engineering listserve and that will continue just as it has since being created in 2006. With that said, we have created DPI TEE /WTEA/SkillsUSA Google+ Community. Here is the Google Community address, but it has also been sent on the TEE listserve: <https://plus.google.com/u/0/communities/112574183737331753759>

In July, Technology and Engineering representatives

(DPI/Brent Kindred and WTEA/Joe Ciontea) attended a daylong meeting with the other CTE areas. During this meeting, all six CTE areas created Google+ Communities specific to their area. To join this community, you will need a Google user account. In recent years, many school districts are now Google based, so this should not be a problem. If your district is not a Google based district, you might already have a Gmail account or you might have to create one. This new sharing community is a dynamic place for us to share announcements, pictures, and news in a different format. This new Google+ format has frequently used links, announcements, work-based learning, events, and much more.



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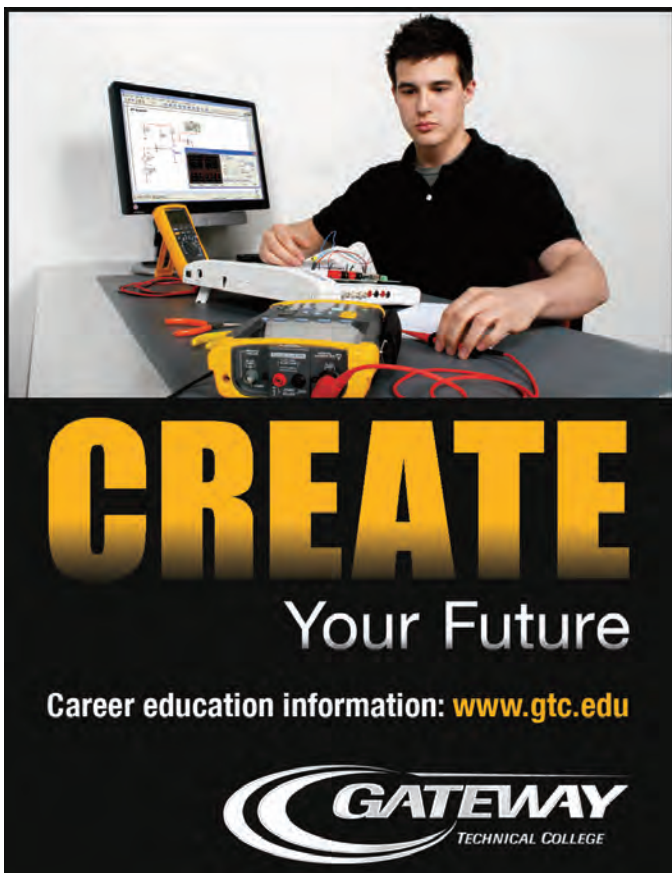
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Fall Leadership Conference

October 18 - 20

SkillsUSA Fall Conference for Middle and High School students is a must for all chapters to attend. Located in central Wisconsin at the Lion's Camp in Rosholt, it is a great location for all chapters to get to easily. Students and advisors learn the program of work that is the cornerstone to running an effective chapter. Everyone is engaged from start to finish. We look forward to seeing you all on October 18 - 20, 2015.

For more details visit: http://www.skillsusa-wi.org/wordpress/?page_id=321



SkillsUSA 2015 - 2016 Calendar

SkillsUSA Fall Leadership Conference

October 18-20, 2015 – Lion's Camp, Rosholt

Welding Challenge

October 3, 2015 – Chippewa Valley Tech College,
Chippewa Falls

October 3, 2015 – Advance Welding Institute,
Eagle River

October 7, 2015 – Fox Valley Tech College,
Oshkosh Campus

First Semester (Early Bird) Membership

November 15, 2015

SkillsUSA-WI Affiliation Fee Due

November 15, 2015

District

District 1: WITC – Rice Lake – December 5, 2015

District 2: Marshfield High School – TBA

District 3: Green Bay Southwest High School – TBA

District 4: Portage High School – TBA

District 5: TBA

District 6: West Salem High School – TBA

SkillsUSA Membership FINAL Deadline

February 15, 2016

Regional Competitions

8th Southwestern Tech College – Jan. 28–29, 2016

4th Northcentral Tech College – February 5, 2016

5th Gateway Tech College – February 12, 2016

3rd Fox Valley Tech College – February 19, 2016

33rd UW Stout – February 25-26, 2016

43rd SkillsUSA State Conference

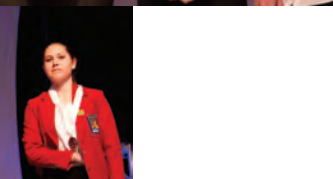
April 26 – 28, 2016 – Alliant Energy Ctr., Madison

52nd Annual SkillsUSA Championships

June 20 – 24, 2016 – Louisville, Kentucky

2015 State Conference

April 28 - 30



51st Annual SkillsUSA National Conference

By Brent Kindred, Wisconsin Department of Public Instruction

During the last full week of June, Wisconsin sent representatives to Louisville, Kentucky to the SkillsUSA National Leadership and Skills Conference. During their stay, students participated as competitors or as voting delegates where they elected national officers for the year and conducted business of the organization. In addition, students also met with business and industry representatives, heard from government officials, visited vendor booths, participated in community service, and had fun.

Many students participated as competitors in the SkillsUSA Championships, held on Wednesday, June 24 and Thursday, June 25. In total, more than 6,000 students competed in 100 occupational and leadership skill areas. SkillsUSA programs also help to establish industry standards for job skill training in the classroom. It was a great week for Wisconsin.

Wisconsin highlights from the week

- Delegation of about 130 attendees
- Earned gold medals in Related Technical Math (Waukegan) & Electronics Technology (Marshfield)
- Earned silver medal in the new middle school Team Engineering Challenge (Riverside Middle School)
- Earned bronze medal in Sheet Metal (Oconto Falls)
- 15 teams/competitors rank in the top 15 in the nation in their respective competitions
- Two outstanding and deserving members ran for national office, with both representing Wisconsin like true leaders. For the 2015-2016 school year, Wisconsin is proud to announce that Ashley G. (Kenosha – Lakeview)

If you are not receiving the Technology Educators listserve postings, you can sign up by contacting Brent Kindred at: brent.kindred@dpi.wi.gov

iew) was successfully elected the Region 3 VP.

A few highlights from the record setting week in Louisville

- The 2015 NLSC was our largest national conference in history.
- The SkillsUSA Championships had the largest number of competitors ever, with 6,106 entrants in 100 contests.
- More than 2,000 volunteers supported the SkillsUSA Championships including judges, technical committee and education team members
- SkillsUSA awarded 1,125 gold, silver and bronze medallions, plus 175 other recognition awards during the conference.
- There were some dynamic general sessions and excellent speakers, including Cameron Ferguson of Caterpillar, Inc. and Nicolas Pinchuk, CEO of Snap-on Inc. at the Opening Ceremony as well as Troy Dally of Lowe's at the Awards Ceremony.
- Alcoa Foundation and the 2015 SkillsUSA World Team made a special appearance Wednesday at a reception on the contest floor and Friday night at the Awards Ceremony. The 19 members who head for Brazil in a few short weeks also participated in training while in Louisville.
- A total of 501 students participated in community service at eight sites around Louisville, bringing the total hours served this year to 101,800 and more than \$200,000 raised for local charities. This completes the 50th anniversary challenge to serve at least 50,000



Plan now to attend the 47th WTEA Annual Conference
February 25 & 26, 2016 • Chula Vista Resort, Wisconsin Dells

TECHNOLOGY EDUCATOR OF THE YEAR

The WTEA is proud to honor Craig Cegielski as our 2015 Technology Educator of the Year. Craig received the award at the WTEA Awards Banquet on March 25, 2015.

Craig Cegielski Eleva-Strum High School

Background

After graduating from UW-Stout in 1998, I taught welding and machining at Antigo High School, but after 6 years I moved back to western Wisconsin to be closer to family. I could not find a teaching job so I went into manufacturing as a welder/machinist at a small shop. After one year I was able to re-enter the world of teaching as the technology education teacher at the Eleva-Strum High School, a very small high school with only 160 students.

The students and I started working hard on the facility for the first couple of years. I incorporated facility improvements into all of my classes. I needed the students to be part of the rebuilding process so they felt a sense of pride and took ownership in the program. Construction class students were laying blocks and creating new welding booths. Welding classes created new workbenches, tables, and stock racks. After two years of improving the facility, and bringing the students' skills up, I implemented a student run manufacturing company.

We named our new class Cardinal Manufacturing and it's a student run custom manufacturing company where students run all aspects of the business. I also teach various levels of CAD, welding, machine tool, automotive, construction, and woodworking. The students take a variety of classes in 9th and 10th grade and then can apply for a position in Cardinal Manufacturing for their 11th and 12th grade years. Cardinal Manufacturing gives them a real life manufacturing experience and allows them to



apply their skills in a real world application. It operates as a real business, it even has profit sharing. This past year \$19,000 was paid out to the students in profit sharing.

When I started teaching, I thought that I should teach my students all of the technical skills that I could. Now, thanks to the guidance of so many great people, I understand that I need to teach students to be

good people and good employees first and the technical skills will follow. We follow what we refer to as the Ten Commandments of Career Success. Once I can get a student to follow the Ten Commandments, the class runs smoothly and it is easier to teach the technical skills.

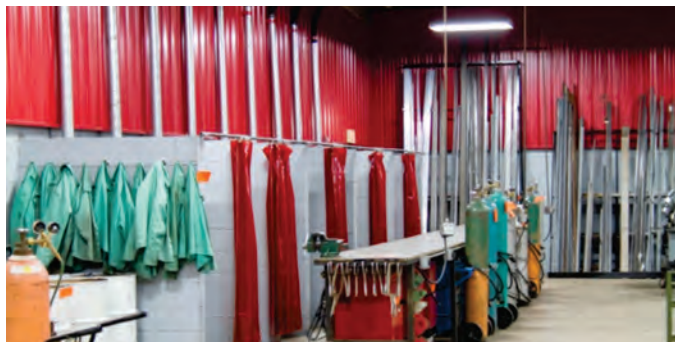
The Ten Commandments of Career Success

- | | |
|-------------------|-------------------|
| 1. Be Positive | 6. Be Flexible |
| 2. Show Up | 7. Figure it Out |
| 3. Work Hard | 8. Join the Club |
| 4. Get Along | 9. No Whining |
| 5. Pay it Forward | 10. Keep Learning |

Impact on Students & Student Achievement

I spend a great deal of time in each of my classes teaching soft skills, and employability skills. I know that these skills will help them in their future no matter what path they take in life. It is very important to me to teach technical skills at the highest possible level, but I know all of the technical skills in the world are no good if you can not show up for work on time or have other poor employability skills. I really work hard on teaching them to be good people and what it takes to be a good employee.

I try to help each student make a plan for life. I am always talking to my students about their future educational and career plans. I find that if a student sets goals and has a plan, he is more likely to be successful. I take pictures of my students creating projects and help them to create a strong professional portfolio, which includes a resume, cover letter, references, reference letters, pictures of projects, and other artifacts that showcase their talents.



Collaboration

Cardinal Manufacturing has been a natural way to form many great partnerships and relationships. We are constantly having local companies and community members in our shop since we are doing work for them. We have met so many people that want to support the development of students in a manufacturing career and want to help support our program. So many companies have learned about what we are doing and have provided advice, field trips, used machinery, and funds for us to continue to grow.

Cardinal Manufacturing has been an excellent way to collaborate with other teachers, schools, families, parents, community, and to foster teamwork among students. We use all of the talents in our school. When we need to write a magazine article, we go to the English Department for help. When we cannot figure out a difficult trig problem, we go to the Math Department for help. The business classes built our website and provided help in advertising and creating marketing materials. The art classes helped with painting and creating signs and we have helped them by building tables and other objects for their room.



Cardinal Manufacturing has become a source of pride for our small community and school. Each year we host an open house and invite our parents, students, staff, customers, and community to see what is new at Cardinal Manufacturing. This year we had Tom Wopat (Luke Duke from the Dukes of Hazard TV show) attend with the General Lee. 1000 people attended our open house this year. The population of the town of Eleva is about 600 and Strum is about 1100, so we had a high percentage of the community here to support us.

Continuous Learning

Technology is moving so fast that I am constantly trying to learn more and keep up. Each summer I take several classes at our local technical college and university

to increase my skills. Also, I put many of my 11th and 12th grade students in charge of learning and mastering a new piece of technology and then creating a binder full of notes so I and the rest of the students can quickly learn. We all work together and always end up figuring it out.

Community Service

For three years I taught machining and welding night classes to low income adults. This was a program that we partnered with our local work force agency. Just like with my high school students I not only taught them the technical skills of welding and machining, but also focused on soft skills and employability skills. They left with a professional portfolio and ready to interview. We also helped them find jobs and checked up on them to make sure things were going well.

I also taught night classes for the Wisconsin Department of Corrections. We brought in people who just got out of prison and on probation. I trained them in welding so they could find employment.

We have also done hundreds of community projects to help improve our local community. I believe it is good for students to learn to help others without expecting to get anything in return. I want to teach them that it is everyone's responsibility to help our community, state, and country.

Summary

New manufacturing technologies are making the United States competitive in the global economy, but we need the skilled workers to build a stronger America. Cardinal Manufacturing provides a higher level of education at no additional cost to the school district, and brings relevance to all other classes since it is using the skills learned in a real life application. Cardinal Manufacturing reduces behavior problems, gives students a strong tie to school, and provides well trained students to pursue post-secondary education with confidence. More students entering manufacturing careers are good for our local, state, and national economy.

I strive to teach every student strong soft skills, and employability skills so they will be successful in any career choice. I am very fortunate to have a very supportive school administration, school staff, students, parents, community and industry partners. I started the Cardinal Manufacturing Program seven years ago and I am very happy with where we are but even more excited to see where it can be in seven more years.

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WTEA WTEA/ITEEA

March 25 - 28, 2015

Joint Conference Highlights



“Building Technology & Engineering STEM Partnerships”



47th Annual Technology Education Conference & Trade Show

February 25 & 26, 2016 • Chula Vista Resort, Wisconsin Dells

Tentative Conference Overview

Wednesday, February 24, 2016

7:30 p.m. – 9:30 p.m. Pre-registration

7:30 p.m. – 9:30 p.m. Project Showcase setup

Thursday, February 25, 2016

7:30 a.m. – 3:30 p.m. Conference Registration

8:00 a.m. – 3:30 p.m. Trade Show
& Project Showcase

8:55 a.m. – 9:05 a.m. General Welcome

9:05 a.m. – 10:00 a.m. 1st General Session

10:15 a.m. – 3:45 p.m. Concurrent Sessions

3:45 p.m. – 5:00 p.m. WTEA Membership Meeting

7:00 p.m. – 9:00 p.m. Awards Banquet

9:00 p.m. (following banquet) President's Reception

Friday, February 26, 2016

7:30 a.m. – 10:00 a.m. Conference Registration

6:45 a.m. – 7:45 a.m. Early Riser Breakfast

7:45 a.m. – 8:30 a.m. Morning General Session

8:45 a.m. – 12:15 p.m. Concurrent Sessions,
Vendor Demonstrations, & Project Showcase

TBD – Hands-on workshops at Portage HS

12:30 p.m. – 1:45 p.m. General Session/Luncheon

2:00 p.m. – 3:00 p.m. Concurrent Sessions
& WTEA Board Meeting

Thursday Keynote Speaker

Michael J. Reader,
President & Owner
- Precision Plus, Inc.



Friday Keynote Speaker

Kent Rader
Professional Speaker
- Stress Reduction
in Education



Chula Vista Resort

4031 River Road, Wisconsin Dells

www.chulavistaresort.com

Room Reservations: 1-877-745-6998 Ask for WTEA Conference Rate



2016 Conference Highlights

February 25 & 26

Keynote Speakers - Thursday & Friday

Educational Sessions - Thursday & Friday

Project Showcase - Thursday & Friday

Trade Show - Thursday

WTEA Annual Membership Meeting - Thursday

Awards Banquet - Thursday Evening

President's Reception & Silent Auction - Thursday Evening

Early-Riser Breakfast - Friday

Colleague Networking - Thursday & Friday



To complete an electronic version of the WTEA membership/registration form go to www.tinyurl.com/WTEA-Conf

WTEA Membership Application & 2016 Conference Registration Form

Membership year runs from September 1st through August 31st

Last Name _____ First Name _____

Home Phone (____) _____ Local Tech College District _____ # years teaching _____

School Dist. _____ School Name _____

School Address _____

School City _____ State _____ Zip _____ E-mail: _____

Check the appropriate boxes below and total amount due.

Membership Fees: [] 3 year membership - \$75.00 [] 1 year membership - \$30.00 \$ _____

Spring Conference EARLY BIRD Registration (Must be postmarked by December 22, 2015)
[] \$125 members [] \$155 non-members \$ _____

Spring Conference Registration (After December 22, 2015):
[] \$150 members [] \$180 non-members \$ _____

WTEA Awards Banquet (Thursday, February 25, 2016) [] \$27 \$ _____

[] Bill my school district - purchase order is attached [] payment enclosed **Total \$** _____

Send completed form with payment or school purchase order to: **WTEA, P.O. Box 1312, Fond du Lac, WI 54936-1312**

Phone (920)-904-2747 • Fax (920) 922-0779 • E-mail joe.ciontea@wtea-wis.org

ANNOUNCEMENT

CALL FOR PRESENTERS

2016 Conference Theme:

“Technology & Engineering: Architects of the Future”

47th Annual Spring Conference

February 25 & 26, 2016

Chula Vista Resort, Wisconsin Dells

*Presenter form must be submitted by November 30, 2015
by mail, fax, website submission or e-mail.*

Directly submit via online form at:

<http://www.wtea-wis.org/bapresenter.html>

E-mail: johnston@mwt.net • Phone: 608-689-3033

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High Tech Workshop Successful

By Eric Sutkay, Lakeview Technology Academy

The end of the school year was in the rear view mirror for most of us, but the start of the school year was in the head lights for some. Several teachers from around the state gathered at Lakeview Technology Academy during the last full week of June to learn, experiment and discuss different types of technology and how they are applied and used in the classroom.

The High Tech workshop held at Lakeview Technology Academy during the first few weeks of summer was a huge success. Attendees were able to do a lot of experimenting. We used the laser, 3D printers, Inventor, TorchCAD, Corel Draw and the Torchmate plasma cutter to learn about new and exciting projects applicable in a variety of tech ed classrooms and curriculum. The main goal of the workshop was to expose attendees to the different machinery and equipment, as well as an opportunity to take away some useful projects for the classroom.

Attendees first learned about Inventor and its different capabilities, but they could experiment with Solidworks, depending on which software they taught at their school. Those in attendance designed a base for their edge lit



LED project. This project included some aspects of re-engineering, precision measurement and 3D modeling before the base was printed. To complete this project the attendees needed to use Corel-Draw to design a cover for the base battery box and the acrylic

sign that would be cut and engraved on the Epilog laser. This offered a great opportunity to discuss some prototyping as well as packaging techniques that are used with the laser for some of the manufacturing courses.

Day two first provided attendees with an opportunity to learn some basic soldering and circuitry skills, as they would build and solder the circuit for their edge lit LED project. This is a great project for an introductory machining, CAD, or electronics course. The rest of the time was spent discussing how to implement a CNC plasma cutter into your classes. Attendees learned how to use TorchCAD to design a sign of their choice. They worked on vector tracing, node editing and the drawing and manipulation of simple shapes. Once the designs were created, attendees learned how to convert the drawings to code, how to setup the plasma cutter and table controls, and finally,



how to cut their pieces. Extra time was spent discussing the troubleshooting of possible issues encountered with the plasma table. Due to time constraints, attendees would take their signs home for the final welding and installation of the hanger bracket and LED rope light holders.

In all, the high tech workshop was a huge success. Those in attendance walked away with two projects including drawings and curriculum that are easily applicable to multiple manufacturing and engineering courses. They were able to ask questions, troubleshoot and analyze a variety of different technology related tools including CAD, 3D printers, lasers, plasma cutters and several other design softwares. The workshop was offered for undergraduate and graduate credit through UW-Parkside. If you missed the opportunity to attend and are looking for a workshop for next school year or summer, please contact Eric Sutkay at esutkay@kUSD.edu.



MIDDLE SCHOOL PROGRAM OF THE YEAR

The WTEA is proud to honor Kromrey Middle School as our 2015 Middle School Program of the Year. The award was presented at the WTEA Awards Banquet on March 25, 2015.

Kromrey Middle School

By Jeremy Dimpfl

Our mission is to foster a safe learning environment for every student, that inspires curiosity through hands-on activities utilizing problem solving, collaboration, and 21st Century skills to address real world connections in our ever changing global society.

Program

Our Technology Education Programming at the middle school gets every student engaged in creativity, problem-solving, design and development. We start by requiring every student in 6th grade to take Engineering and Technology (and continuing this through 7th grade). An area of struggle for many schools is to engage females and students of color; we aim to dispel stereotypes in engineering by helping all students see themselves as capable of engineering design and development.

The Gateway Curriculum we offer (using Project Lead the Way design and principles) provides engineering curriculum experiences for middle school students that challenges, inspires, and offers schools variety and flexibility. Students get rigorous and relevant experiences through activity-, project-, and problem-based learning. They use industry-leading technology to solve problems while gaining skills in communication, collaboration, critical-thinking, and creativity (from: www.pltw.org/our-programs/gateway).

Curriculum Renewal

Across the district, all content areas and grade levels follow a 3-4 year Curriculum Renewal Cycle. We utilize



Understanding by Design® (in three stages) for writing coursework, except where dictated by Project Lead the Way (PLTW). Stage One involves examining standards and selecting transfer goals, understandings, knowledge

and skills needed for success. Stage Two involves designing appropriate assessments, both formative and summative, to gauge where students are. Stage Three involves writing daily lesson plans that are differentiated to meet the needs of all students.

In Year One, the following activities are involved: 1) Develop draft of Stage One, 2) Review data, 3) Conduct research, 4) Develop a communication plan, 5) Create program and materials, 6) Consider evaluation criteria for examining other programs, 7) Conduct site visits, and 8) Undergo appropriate professional development.

During Year Two, we: 1) Make recommendations for change, 2) Develop budget projections, 3) Develop an implementation plan, 4) Approve of curriculum materials,

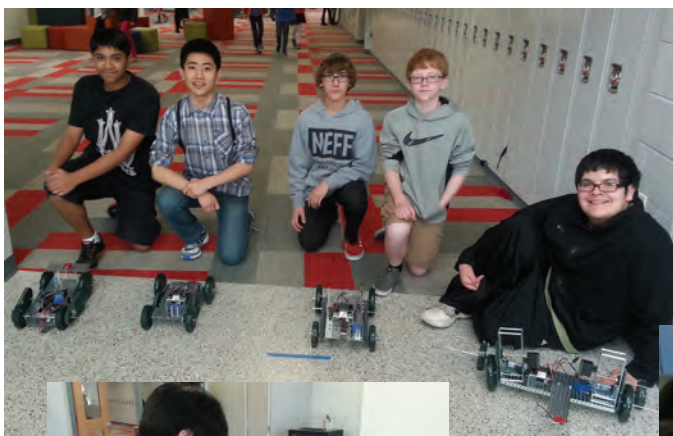
5) Continue professional development, and 6) Continue stage development.

The following activities are carried out in Years Three and Four: 1) Implementation of the new curriculum plan, 2) Gather data, 3) Continue needed professional development, 4) Refine, redesign and realign the curriculum.

At Kromrey Middle School we have been actively involved with Rockets for Schools for the past 12 years. We have competed at the junior level for our first few years, and have competed at the senior level since. Rockets for Schools is a great opportunity for kids to explore many of the STEM fields tied to aerospace technology and to work collaboratively with students around the Midwest.



For many years prior to my being hired at Kromrey in 2001, our program was also involved with the local Cub Scout Pack 240. We opened up the lab on Saturday mornings for young scouts and their parents to learn about tool safety, design, and construction of their pinewood derby cars. The interaction between parent and child working together is something that we are very proud to be apart of at Kromrey Middle School.



Program Facilities

For several years at Kromrey Middle School we had a pretty traditional classroom setup. We had three classrooms that were adjacent to one another with a centrally located office and large windows in between the rooms for increased visibility. Two of the classrooms were set up with large maple top tables with lockers underneath. Then set up around the perimeter of these two rooms was all of the typical lab equipment: band saw, scroll saw, drill presses, routers, buffers, sanders, planer, table saw, lathes, and many more hand and power tools. Our third classroom was set up as a clean room that housed all of the computers, 3D printers, and dark room. This classroom was typically used as our design lab at the seventh and eighth grade level to collaborate and troubleshoot ideas.

In 2012, there were two very big decisions that were made at both the department level as well as the district level. Our current school was deteriorating, and the HVAC system was no longer able to keep up with current demands, hence a \$49 million dollar referendum was passed to build a new middle school adjacent to our current school. This was going to be a two year process happening in three different phases, our facilities being part of the third phase. The same year, we also decided to implement Gateway(PLTW) into our current middle school program. Passing the referendum provided us a unique opportunity to provide input as to what our future facilities could look like for the implementation of the

new curriculum, as well as what we were currently teaching. We pride ourselves on maintaining a very hybrid rich curriculum, while maintaining some of the traditional curriculum, and then blending the Gateway curriculum in as well.

While we were excited for this next step, we also knew that some research and site visits needed to be done. As a department, we wanted to visit middle schools that had already implemented the Gateway curriculum and get a feel for what those learning environments looked like, with

kids in the classroom. We visited Edison Middle School in the Janesville School District, Indian Mound Middle School in the McFarland School District, and also New Glarus Middle School. Each facility and every teacher provided us with valuable information, that would help us provide feedback to the architects that were designing our new school and, more specifically, our Gateway Labs and Prototyping Lab. Another obstacle we were about to encounter was the fact that our current facilities would be demolished before our new facilities would be completed, therefore we would need to be in a temporary classroom for the better part of a school year. Not only would we be in a temporary classroom, but it would also be without any equipment, making it a bit more of a challenge. Modifying curriculum to meet the needs of our students has been a challenge, but it has also forced us to try some things that we may not have otherwise. As a department, we met with Bray Architects probably a dozen times to discuss what we would like our future classrooms/labs to look like, and are pretty confident that our students are going to be provided with a top notch learning facility, where they can collaborate and utilize 21st Century skills to solve real world problems through STEM rich activities. We are very excited for what the 2015-2016 school year will bring.

GATEWAY TECHNICAL COLLEGE

Seminar Teaches Torque Theory and the Application of Precision Bolting to Area High School Teachers

\$10,000 in equipment and training donated to participating high schools

A seminar hosted at Gateway Technical College July 22-23 gave several area high school instructors the skills and equipment to provide cutting-edge training to their students to successfully enter their chosen career or college program.

Called a “train-the-trainer” event because college instructors train high school instructors to better train their students, the session provided nationally certified instruction on Snap-on torque instruments used in a variety of industries today. The skills gained by high school teachers allow them to deliver even more real-world skills to their students which are needed to become college and career ready. The session was the same certification training Gateway has offered to instructors from across the country since 2008.

“This type of in-depth, nationally recognized professional development is rare and expensive to attend, so being able to provide this opportunity for our local instructors at no cost is a great benefit for the entire community,” said Gateway and session instructor Matt Janisin.

Teachers from the following high schools within the Gateway district participated: Bradford (Kenosha Unified School District), Park and Case (Racine Unified School District), Wilmot Unified, Lake Geneva Badger (Lake Geneva Area Schools), Burlington (Burlington Area Schools), Whitewater (Whitewater Unified School District), Waterford Unified, Union Grove, Westosha Central, Big Foot.

“This seamless transition into Gateway’s programs saves students, their parents, and taxpayers money by not having to pay for duplicated services,” said Janisin. “Accelerated students will come to the entry-level job market and post-secondary education with higher skills that benefit area employers as the skilled workforce expands.”

In addition to providing the training at no cost, Gateway, in partnership with the National Coalition of Certification Centers (NC3), donated over \$700 worth of Snap-on torque instruments to each of the teachers for improving their high school programs. “Empowering instructors with challenging new content can recharge a teacher’s batteries and give them something they are excited to share with their students – and not just something

else to teach,” says Janisin. “The instructor sets the tone in the classroom; if they are excited, the students will be too.”

“Equipment and training are essential for improving student experiences within the classroom, and building a more skilled and career-ready workforce,” said Janisin. “This donation of torque instruments, along with nationally recognized certification training, ensures instructors will be comfortable and confident in teaching their own students the importance of precision bolting and in assuring safe and reliable assembled components.”

The event was hosted at Gateway’s Horizon Center for Transportation Technology. This opportunity was made possible by the strong partnership Gateway has created with Snap-on, Inc. through NC3.

Instructors from the high schools of West Allis Central and West Allis Hale (West Allis-West Milwaukee School District) and Beloit Memorial (School District of Beloit), also participated.



Back Row Left to Right:

**Dave Dixon - Racine Park; Dan Meyer - Racine Case;
Jake Ruff - Waterford; Nick Baldwin - Union Grove;
Eric Andersen - Westosha; Matt Janisin - Gateway;
Jeff Kehoe - Wilmont; Mike Wintz - Whitewater;
Matt Kerhin - West Allis Central;
Gottfried Georgi - Racine Park (Retired);
Casey Cushman - Kenosha Bradford;
Jerome Kobriger - Racine Park.**

Front Row Left to Right:

**Aaron Troxell - Beloit; Nick Schilleman - Burlington;
Jack Hart - Big Foot; Rick Romanski - West Allis Hale;
Tom Sheeley - Lake Geneva Badger.**

National Fiat Chrysler Technician Rollout Begins at Gateway

Gateway students will gain access to first-in-the-nation certification training for Fiat Chrysler Automobiles, giving them the industry credentials and skills to better secure their career future in the automotive industry.

Fiat Chrysler Automobiles (FCA LLC) at Gateway's Horizon Center for Transportation Technology in Kenosha announced the automotive technician program to provide students with the training to be certified as Mopar Level 1 technicians. Gateway is the first college to engage in the training which will be embedded in its two-year Automotive Technician associate degree program.

"Gateway is proud to be the first college identified by FCA to provide this training opportunity," said Gateway Technical College President and CEO Bryan Albrecht. "It's the golden ticket to job prosperity, to embed the standards into our curriculum."

Gateway officials worked to inject the training modules into the college's two-year Automotive Technician program, providing the means for graduates to have earned FCA Level 0 and Level 1 certifications.

John Fox, director of training at FCA, said that the company will need to add 5,000 technicians to their workforce by 2018. He said those completing the college program can start doing significant technician work on FCA vehicles immediately.

Nick Pinchuk, chairman and CEO of Snap-on Incorporated, told the 200 audience members that the strength of America is its middle class, and the backbone of keeping it viable is technical education such as that mentioned in the announcement. "The strength of America, our broad nation, is people employed in tasks. The great middle of America is our strength," he said.

Others also lauded Gateway for being the first college in the nation to provide the training. "This is a big deal for Wisconsin because Chrysler is announcing its national platform in Wisconsin, and I am proud of Gateway because it is the first to deliver on that platform," said Reggie Newson, secretary of the Wisconsin Department of Workforce Development.

After creating a curriculum, Gateway began with a voluntary program for its existing students in Fall 2014 before requiring them to engage in the FCA training starting with the Spring 2015 semester.

Current students will be able to engage in a portion of the training modules. Newly enrolled students starting Fall 2015 will have the opportunity to receive the entire

range of FCA certification training for Level 0 and Level 1. "They are receiving the training as part of their everyday Gateway curriculum," said Matt Janisin, Gateway automotive technology instructor and NC3 coordinator. "Every newly enrolled student will receive FCA training in every class they take throughout the program."

The FCA-specific training means an influx of trained technicians into the industry who are certified to address FCA warranty work. Not only does it provide even more technicians for area dealerships and shops to hire for that warranty work, but it also benefits Gateway graduates who will be even more valuable to potential employers. Those employers will know they have an FCA-trained technician. They will know the graduate is highly skilled and effective in performing FCA work from the time they are hired, as well as showing an aptitude for successful training from OEMs. In addition to the associate degree program, Gateway will also provide training for instructors from across the nation in the Mopar CAP Local program, an NC3 train-the-trainer format of which the college has gained national and international recognition.



Left to right:

Roger Tadajewski, Executive Director,
National Coalition of Certification Centers (NC3).

Reggie Newson, Secretary,
Wisconsin Department of Workforce Development

Andy Palmen CEO, Palmen Group

John Fox, Director of FCA Performance Institute
(Fiat Chrysler Automobiles)

Bryan Albrecht, President & CEO
Gateway Technical College

Eric Seleznow, Assistant Secretary,
Employment and Training Division, U.S. Department of Labor

Nick Pinchuk, Chairman and CEO, Snap-on Incorporated

GATEWAY TECHNICAL COLLEGE

Gateway to Host ATEA Region Three Conference

By Bryan Albrecht, Gateway Technical College

GTC is excited to introduce the American Technical Education Association (ATEA) Region Three conference participants to its SC Johnson integrated Manufacturing and Engineering Technology Center (iMET). This one dynamic location hosts its engineering technology, construction sciences, and mechanical design degree and diploma programs, as well as customized training and industrial boot camp training through its Business and Workforce Solutions division. This conference is designed for secondary and post-secondary teachers to advance their knowledge and skills in industry specific content and certification. Meet teachers from throughout the Midwest and take home practical examples of how partnerships can enhance your students' experience. Step into our STEM environment for workshops that will educate and inspire.

Workshops

1. Going Digital.
2. It's Mechanical! It's Electrical!
It's Robots! It's IT Networking!
3. Measuring Up—Precision Measurement
Certification that Drives Quality.
4. Good Bye Chalk; Hello Smart Boards
... and So Much More.
5. Hand in Hand—College and High School
Partnership Opportunities.
6. "Makin' It"
Using the U.S. Fab Lab Network.
7. Fast Track to Meeting
Employers' Demands: Boot Camps.
8. Paving the way to Graduate Employment:
Internships & Job Placement.
9. A Graduate's Best First Job
Might Be Owning Their Own Business.
10. It's More Than An Elevator Speech
—Telling Your CTE Story.
11. Demonstrating Student Success
With Industry Assessments.
12. Lean, NOT Mean
—Applying Lean Six Sigma in Education.
13. Telecom!



"Gateway to Innovation"

October 26-27, 2015

Hosted by

Gateway Technical College, President Bryan Albrecht Conference Chair

ATEA thanks conference sponsors:

NC3 • Snap-on Tool • Gateway Technical College • Madison College



Conference Hotel location:

**Marriott
7111 W. Washington Ave.
Racine, Wisconsin 53406**

Reservations: 262-886-6100

Room rate: \$109 plus tax

Conference workshop sessions location:

**SC Johnson iMET (integrated Manufacturing
and Engineering Technology) Center
2320 Renaissance Blvd., Sturtevant, WI 53177**

Early Bird Registration - \$175 (Cut off September 18th)

Conference Registration - \$195 (September 19th)

**Preconference FabLab plus Full Conference - \$275
(limited to 11 participants)**

More information and registration at ateaonline.org

WTEA FOUNDATION SCHOLARSHIP

WTEA Foundation Future Teacher Scholarship Recipient

Michaela Guerrini has been selected by the WTEA Foundation to receive the Future Technology Teacher Scholarship. She is a graduate of Menasha High School and will begin studying Technology Education at UW-Stout this fall.

Her scholarship essay follows.



Being the same as everybody else is not enjoyable. Stepping out of the 'norm' and into the different, now that is an adventure. Being different, you are the only one, no one else is like you, and they might be similar but not the same. I am different, I have wishes, dreams, and commitments that only I can do. I want to do many things, but the one that tops them all, sticks out the most, is my dream to teach technology. I want to make memories, moments, to challenge myself to imprint someone's life. I want to teach and guide young adolescents through-

out their life of learning. It is a privilege being a part of that process in those children's lives, by being there to help, guide, teach, and watch who and what they'll become. That is the dream, my dream, a dream which I will push forward till I accomplish it.

I have been told that going into Technology Education is a male job. Yes, it does have a good percentage of males in it, but that shouldn't stop women from joining it. I am joining, I will show other women that, just because you are a female, you shouldn't stop yourself from doing what you love. No matter what your gender, race, ethnicity, religion, sexual orientation, or disability, that should not alter your dream, but push oneself to do their very best.

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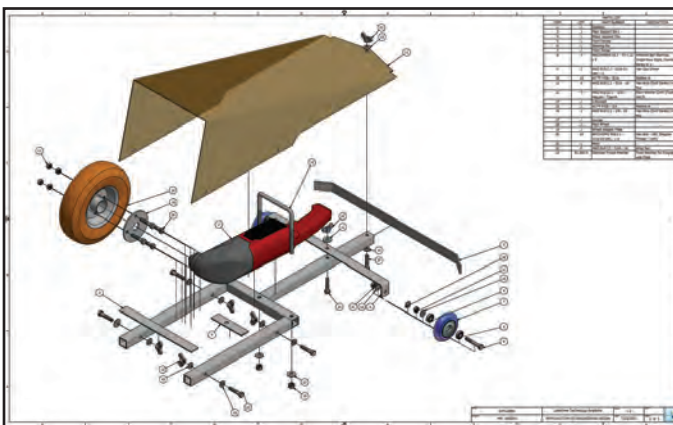
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Dragster STEM Camp

By Eric Sutkay, Lakeview Technology Academy

If you have not taught a summer STEM camp, plan one for next year. Although I have been teaching STEM camps now for 6 years, this year was by far one of the most rewarding. In the past, we have traditionally done a four day, six hour each day camp, where the students spend three hours in the morning studying Biomedical Engineering, Mechanical Engineering, Information Technology or Manufacturing. The three hours in the afternoon was typically dedicated to a field trip to a local business or industry involving one of the 4 areas listed above. While this has worked well in the past, and even worked this year with the two girls' summer camps, it was time to change things up a bit, and that is exactly what we did for the 7th and 8th grade boys.

Anyone who has taught at the middle school knows that this age group is very challenging. Maybe because I am a high school teacher, I do believe there is a unique element to teaching middle school students. The traditional STEM camp did not work very well for this group of students. There were a lot of them complaining that it was not fun, or it was boring. We would encounter more challenges and behavior issues with this group of campers and I believe it was due to a lack of involvement with what they were doing. That is why, with the help of Mike Cattellino at Fox Valley Tech and Steve Meyer from Brillion, we decided to build the power tool dragsters.



Spending four full days of designing, engineering and manufacturing of the power tool dragsters would prove to be very different from what I was used to teaching at the camps. Students would need to have some CAD skills, some safety background and an introduction to the band saws, drills, mills and welding. It would also require some

skills with assembly and various hand tools. There also should be some time set aside for racing the dragsters. The planning stages were very time consuming and deciding what the students could do in that amount of time with that skill set was a tough call, but overall I think the students set the pace for the camp.



Our first day was spent on the design of the dragster. Some students had been introduced to Inventor in their middle school tech class, but they were not aware of the capabilities that we would show them. The students learned different ways to design a frame for the chassis for their dragster. They also learned to create different parts, to make drawings and finally to assemble their project. Although this was not the highlight for the students, they would see it all pay off in the end, when they were cutting and assembling their dragster.



The next few days were spent on safety, practice cutting, welding and, finally, finished welding of the chassis. All of the holes needed to be carefully marked and drilled so everything would line up correctly upon assembly. The boys worked in groups of two to build and assemble the dragster. Upon complete assembly, the boys were given an opportunity to design decals, which were cut on the school's vinyl cutter. All of the welding and assembly took approximately two, six hour days to complete. With





This was a great camp that could easily transition into a classroom project for your older students. If you have any questions about running a STEM camp or the project, please feel free to contact me.



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the exception of the first day, boys would arrive at school up to 30 minutes prior to the start of the camp. On the final day, most groups arrived an hour before the camp was scheduled to finish the assembly of their dragster.

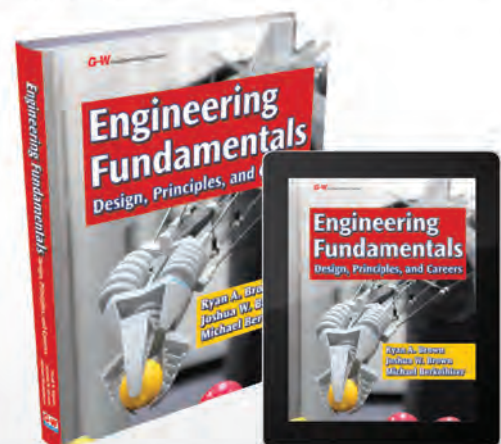
On race day we invited all parents to arrive at the school to see what their sons had created. The district communications specialist was there, as well as the local newspaper to cover the race and the student's reaction to manufacturing and engineering at its best. The students had a great time; they were working on a dragster when it

broke down, and modifying it to make it run faster during the race. The students had a great time and the parents were extremely impressed with the work the students did, especially the interest their kids had in coming early on the last two days.



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The 2015 WATDA Summer Institute: New Approach, New Site

By Gary Beier, Vice President – WATDA Foundation

The Foundation's annual Summer Teachers Training Institute was held from July 7 – 10 at Fox Valley Technical College's recently renovated Keller Transportation Center. This was a brand new location for the annual event. Most importantly, the Fox Valley Team took a brand new approach to the program offerings for 2015.



Five individual week-long study tracks were offered. The courses were designed to parallel the newer National Automotive Technicians Education Foundation (NATEF) standards with concentrations in Automotive Service/Master Automotive Service Technician. This category included four specialized concentrations: Advanced Electrical and Engine Performance, Advanced Automatic Transmission, Advanced Hybrids and Advanced Light Duty Diesel. The fifth track, Medium Light Repair, was presented for newer teachers and schools working toward their first level of NATEF certification.



Attendees received a great deal of hands-on training and were able to go home with some of the equipment they trained on. Thanks to AYES and General Motors, program schools received a total of 30 new GM Spark four-cylinder engines to study this fall.

Our grant from the Forest County Potawatomi Foundation provided direct grants of \$250 each to twenty registered schools for purchase of classroom training aids.

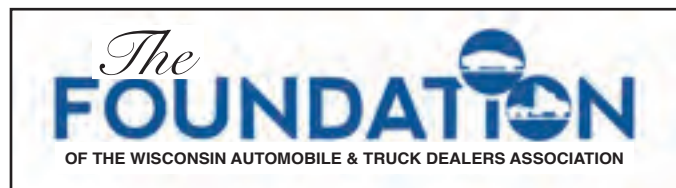
Another portion of the Potawatomi Foundation grant, along with in-kind support from Wells Vehicle Electronics, made it possible for us to provide electronic training boards for another twenty schools.



The Fox Valley Tech team provided transmissions that were given to instructors who attended this specific study track. National Geographic Cengage provided their latest automotive service textbook for attendees to sample.

All told, the 2015 Summer Teachers Institute provided 59 instructors with a potential of 2,360 certified professional credit instruction hours. 75 percent of all our NATEF certified programs participated and classrooms were benefited with over \$165,000 in training equipment and grants. There were 78 total participants this year - the best showing in the 16-year history of this program.

Oregon High's Ned Lease had this to say about his experience." Near the end of this year's WATDA Summer Institute I attended a session where I met a new instructor starting his first year of teaching automotive. I thought to myself 'Boy, I know just what that feels like.' At the end of the session I introduced myself and told him that he was, most definitely, in the right place, and that WATDA and Team Wisconsin would surely take care of him."



ANNOUNCEMENTS

LAB Midwest Announces Succession Plan, Ownership Change

Effective in August, 2015, Renee Kirchner, a key member of the LAB Midwest team for more than six years and daughter-in-law of Dale Kirchner, has assumed the role of chief executive officer. In addition, Renee, who holds bachelor and masters level engineering degrees, will hold a majority of the equity in the company.

Joining LAB Midwest as the company's new president is Dale Kirchner's son Matt Kirchner. Most recently Matt served for seven years as the chief executive officer of American Finishing Resources, LLC headquartered in

Chilton, Wisconsin. Matt brings more than 20 years of executive level industrial and manufacturing experience to the LAB Midwest leadership team, including a first-hand understanding of the key role a skilled workforce plays in the success of an industrial enterprise.

Dale Kirchner, whose forty year career is well recognized throughout the technical education field, will remain actively involved in the company – visiting customers and supporting the new leadership team - for several years to come.

Twenty-nine-year LAB Midwest veteran, Regional Sales Manager and Technical Representative Paul Holslin will continue to enthusiastically support customers in Minnesota, as well as North and South Dakota.

For more than 40 years LAB Midwest has provided the highest level of products and support to the technical education field. The company offers and supports products provided by world-class suppliers, including Amatrol, Fanuc, Lincoln Electric, Automation Studio, HFT Education, TEQuipment, Denford, Simlog, VRSim, Lexsolar, Imperial Training, Megatech and Progressive Educational Systems. The company has offices in Wauwatosa, Wisconsin; Lakefield, Minnesota; and plans to announce its third location later this year.



October is Careers in Construction Month

Associated Builders & Contractors of Wisconsin is pleased to announce that October is Careers in Construction Month!

During Careers in Construction Month, ABC of Wisconsin staff and members are available to visit area schools to promote the industry and our apprenticeship programs to students, teachers, guidance counselors, school boards, and parents.

October not a good month for you? ABC of Wisconsin participates in career fairs, presentations, and career counseling sessions all year long! Contact us today to set something up!

For more information go to www.abcwisc.org/en-us/educationtraining



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FROM THE ARCHIVES

Editor's Note: The following article is reprinted as it appeared in the Fall 1987 issue of the Interface.

Technology Education at the Middle School Level: A Future Scenario

by Daniel Klecker, Technology Education Teacher, Barron, Wis.

It was truly a proud day when my daughter following in my footsteps became a middle school technology teacher. I could hardly wait for her to come home during her first Christmas vacation as a teacher so we could sit down and talk shop (I mean technology!).

Not more than ten minutes after Meghan walked in the door, we were sitting at the kitchen table with piping hot mugs of coffee, both busting at the seams to talk about middle school teaching. Meghan began by describing her students as energetic, off-the-wall, confused, and pubescent. "Sounds like adolescents haven't changed much since I was teaching," I responded.

I was really interested in hearing about the curriculum Meghan was using. She mentioned very little about it in her letters or phone calls during the past semester. After we exchanged a few more "war" stories, I finally came right out and asked, "Meghan what are you teaching your students?" She seemed a bit taken back that I, a

former middle school teacher, needed to ask such a question. "Why Dad I'm giving my students the opportunity to explore themselves, others and the technological world they live in." I responded that I understood the mission of the middle school, but I still wanted to know what classes she was teaching. "But what about your classes, do you teach the World of Manufacturing, World of Construction, Communications, Transportation?" Meghan once again gave me her combination disappointed and puzzled look. "Dad, were you one of those old technology teachers who believed you could achieve the middle school mission using only those four old high school content areas?" As I sat silent Meghan knew she has to back up a few steps and start at the beginning for dear old Dad. I refilled our mugs and humbly awaited to be enlightened.

"The only time I worked with a whole class of students on my own was during orientation," Meghan started. Assuming orientation was an introduction to technology was a major flaw on my part. Luckily I didn't express my assumption to Meghan. "Orientation is a Career, Environmental and Self-Awareness program developed by the guidance department to deal specifically with students' awareness and value judgements. Each teacher in the school has a small group of students who they meet with each week. During the orientation period sixth and seventh graders participate in teacher-directed, non-graded guidance activities that help students develop into unique individuals. Eighth graders, after becoming familiar with their values and awarenesses, work on other activities in order to discover their own worker traits which in turn are compared to actual job characteristics."

Hesitantly I asked "Do you mean Orientation is a three-year course?" "Well, of course," Meghan politely replied, "all good middle school teachers are aware that all adolescents don't grow and mature at the same rate. Each teacher works with his/her same group of students over a three-year period."

"I remember working on a similar program called Advocacy when I was teaching middle school," I responded in an effort to save my pride. "Great! What kind of activities did you do Dad?" Meghan asked. "We played Trivial Pursuit . . . and uh . . ." Realizing I was not making any points on the orientation topic I pressed on to more fa



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miliar ground. “Now what about technology Meghan. You certainly must have activities to familiarize your students with the technological society they live and will work in.” “All sixth grade students go through a year-long required course in which we give them an overall picture of the world they live.” “Who is we?” I bravely asked. “We is our interdisciplinary teaching team consisting of myself representing technology ed, and teachers representing the fields of agriculture, home economics, health and business/marketing education. Using teams we expose all of the sixth graders to the three broad areas of Bio-Technology, Information Technology, and Physical Technology. The physical systems include your old content areas of construction, manufacturing and transportation. In information systems students work with information processing, photographic, graphic and electronic communications. During the bio-tech systems students are involved in agriculture, medical technology, food processing and preservation activities.”

“I get it, you teach the physical system, home ec teaches bio-tech.” “No Dad, all members of the team are able to cover any area. That helps reduce the opportunity of sex role stereotyping. Where each of us lends our expertise is in developing new activities to keep everything current.”

“Well what about seventh and eight grade, it sounds like you cover all your material in one year.”

“We give the sixth grade students a chance to experience a broad range of technologies and the interaction between them. During the seventh grade students apply their sixth grade experiences in learning about our economic

institution. This is done through the year-long enterprise course. During the year students will run several enterprises selling products, services or providing a community service. Each enterprise requires the class to form a company, plan the management, design/develop the product or service, set-up, produce the goods or service, sales and finally liquidation.”

“By eighth grade, students start realizing their own interests and are encouraged to explore them further on an individual or small group basis. Some work on specific projects while others work on in-depth studies all contracted through one of our team members.”

“Okay, Okay I’m impressed by your program, but I have one more question for you Meghan. How were you able to walk into a program, such as you described, as a first year teacher and seem to adapt to it so well?”

“First of all Dad, I cannot imagine being a first year teacher and walking into a program that doesn’t have the built-in support group that your interdisciplinary team has. I also have to credit my teacher education institute. I selected the professional courses geared to middle level education in order to receive state middle level certification. My course on guidance for the middle level really has been helpful in the orientation program at school.”

“Well Meghan, I must admit when we sat down today I thought I was going to be the one with all the advice. You already seem like you’re closer to achieving the middle school mission than I ever was.”

“Thanks to you Dad, the patience and understanding came naturally, I just had to work at the rest.”

Summer Highlights of the STEM Shuttle and Crew

The summer of 2015 was full of excitement, fun, and lots of hard work for the STEM Shuttle crews. From the Edgar Fire Department Parade, the 4th of July Parade in



Mosinee, to the 7th trip to Kid-Venture (the EAA AirVenture in Oshkosh), and our first trip ever to Angel Camp, it was a rewarding summer to say the least.

The STEM Shuttle and volunteer crew traveled to Three Lakes, Wisconsin, to take part in a day at Camp Angel. These camps, sponsored by the Angel on My Shoulder Foundation, are free to children having a family member stricken by cancer. It’s an opportunity for the kids to “get away” and experience camp life for a few days. Even though we put the kids through the series of hands-on workstations on board the shuttle, they wanted more. The shuttle will return to Camp Angel next summer.



2015 - 2017 Budget Analysis: New Teaching License Options

By Attorney Tony J. Renning,
Strang, Patteson, Renning, Lewis & Lacy, s.c.

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2015 Wisconsin Act 55 (the 2015-2017 Biennial Budget), which was signed into law by Governor Walker on July 12, 2015, authorizes the Department of Public Instruction (DPI) to issue Technical Education teaching licenses through an alternative method and to issue Wisconsin teaching licenses to certain teachers licensed in other states.

Experience-Based Licensure For Technical Education

The newly created Wis. Stat. § 118.191(2) provides that the DPI shall grant an initial license to teach a “technical education subject” (“technology education subject” includes technology education and any technology related occupation) to an individual who is eligible for licensure under Wis. Stats. § 118.19(4) and (10), who is able to demonstrate their technical and/or pedagogical experience, and who agrees to complete, during the term of the license, a curriculum determined by the school board of the school district in which the individual will teach.

The individual must score at least 100 points (under a statutory point system) of which at least 25 points demonstrate experience in a technical field (for a bachelor’s degree in any science, technology, engineering or mathematics field and any teaching license or permit (100 points); for a bachelor’s degree in any science, technology, engineering or mathematics field (75 points); for a bachelor’s degree in a field other than science, technology, engineering or mathematics (65 points); for industry certification (90 points); for industry experience in a trade or technical field (5 points per 40 hours worked, up to a maximum of 90 points); for an internship in a trade or technical field (25 points); for being mentored in a trade or technical skill by a colleague or a Wisconsin Technology Education Association approved mentor (25 points); or for an apprenticeship in a trade or technical field (5 points per 40 hours worked, up to a maximum of 90 points)) and at least 25 points demonstrate pedagogical experi-

ence (for a bachelor’s degree in technical or technology education (100 points); for a bachelor’s degree in a field other than in technical or technology education and any teaching license or permit (75 points); for credit earned at an accredited institution of higher education or technical college (3 points per credit, up to a maximum of 75 points for technical or technology education courses and science, technology, engineering, or mathematics courses and 3 points per credit, up to a maximum of 75 points for education and pedagogical courses); for completing at least 100 hours of training in pedagogy (5 points per 50 hours, up to a maximum of 25 points)).

The DPI is required to verify the individual’s technical/pedagogical experience using a combination of the individual’s transcript for the applicable degree or credits; the individual’s industry certificate; the signature of a supervisor, employer or other reliable observer; and/or verification by a course instructor. Wis. Stat. § 118.191(5)(b)1.-4. If the individual is unable to provide verification, any other proof of the applicant’s experience approved by the DPI is acceptable. Wis. Stat. § 118.191(5)(b)5.

The DPI is required to approve or deny an application for an experience-based license for technical education within 45 business days after receipt of the application. Wis. Stat. § 118.191(6). If the DPI fails to act within 45 business days of receiving an application, the application shall be considered approved and the applicant considered a licensed teacher until the DPI approves or denies the application. *Id.*

An initial experience-based teaching license is valid for three years. Wis. Stat. § 118.191(3). Upon expiration of the initial teaching license, the DPI shall issue to the license holder a professional teaching license to teach the “technical education subject” if the individual successfully completed the curriculum that the individual agreed to, as determined by the school board of the school district that established the curriculum. Wis. Stat. § 118.191(4).

Check out the webpage for the new licensing rules at <http://tepd.dpi.wi.gov/licensing/tech-ed-exp-pathway>



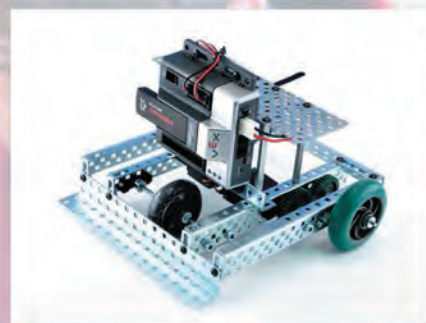
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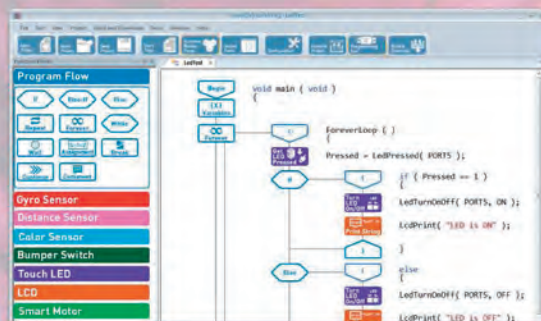
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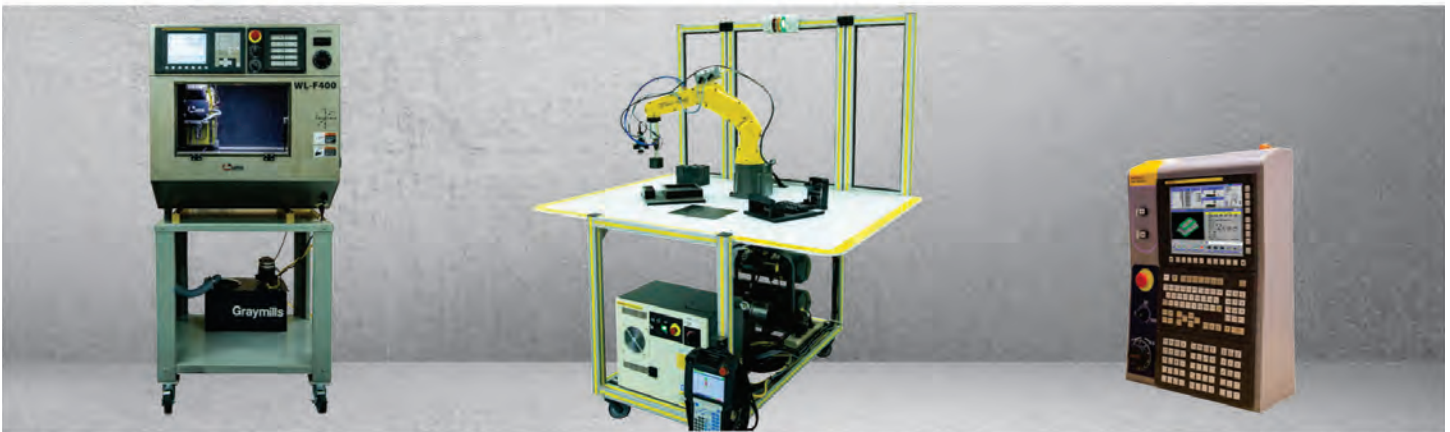
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