

# SAE MILWAUKEE

An SAE International Section

## Upcoming Events

- November 2<sup>nd</sup> – Student Night at MSOE
- November 4<sup>th</sup> – Young Professionals Event at MilwaukeeBrewing Company

## Future Events

- February – JW Speaker
- March – SAE Clean Snow Challenge
- March – BRP
- April – Trek Bicycle
- May - Synerject

## October 2016 SAE Newsletter

November Event:

# SAE Student Night



**MichiganTech**



THE UNIVERSITY  
of  
**WISCONSIN**  
MADISON



UNIVERSITY of WISCONSIN  
**UW MILWAUKEE**



**November 2<sup>nd</sup>, 2016**  
**5:00pm**

Hosted by  
Milwaukee School of Engineering  
Todd Wehr Auditorium  
1025 N. Broadway, Milwaukee

# Student Night - About the Event

## Event Agenda

**Registration**.....5:00-5:30pm

**Vehicle Displays**.....5:00-6:00pm

**Dinner** .....6:00-6:45pm

**Presentations**..... 6:45pm-8:00pm

## Registration Fees

**SAE Members**.....\$15.00

**Retirees** .....\$15.00

**Guests/Non-members** .....\$20.00

**Students** ..... Free with pre-registration

## Registration

**Registration Deadline:** October 26<sup>th</sup>

**Maximum Attendance:** 160 attendees

### **Ways to Register:**

- Online with a charge card via [www.milwaukeeesae.com](http://www.milwaukeeesae.com)
- By phone: 920-585-6117 (Lauren Goulet)
- By email: [gouletl@msoe.edu](mailto:gouletl@msoe.edu) (Lauren Goulet)

**Registration required – no walk-ins allowed**

### **Location:**

MSOE Todd Wehr Auditorium – 1025 N. Broadway, Milwaukee, WI

### **Date:**

Wednesday, November 2<sup>nd</sup>

### **Displays:**

SAE Milwaukee Section Student Chapter Collegiate Design Series competition vehicles will be on display and student representatives will be present to interact with guests. This is an opportunity for each chapter to showcase the efforts of their chapter throughout the past year. Come see the amazing projects the students design and build through the year!

### **Presentations:**

Student chapter representatives will articulate on their chapters' projects, achievements, and activities. Professional members have the opportunity to rate the presentations. This is one of the biggest nights for the student chapters, as they have the opportunity to earn significant funds for their projects, based on their ratings.

## Guest Speakers



**TESTING & ENGINEERING**

This year's Student Night is sponsored by B83 Testing and Engineering. B83 Testing & Engineering is an ISO 17025 accredited independent test laboratory located in Milwaukee, WI. B83 specializes in product testing and development across of a wide variety of industries. As an engineer owned and operated business, B83 prides itself in being a strong collaborative partner who understands tight timelines and budgets. Since 2002, B83 has worked closely with customers' engineers on diverse products to verify quality requirements from product design through manufacturing.

Testing capabilities include vibration, mechanical shock, field data replication (RPC®), sustained acceleration (centrifuge), cyclic fatigue, life cycle testing, strain gaging, data acquisition, environmental simulation (temperature, humidity, and altitude), thermal shock, test fixture design and development.

B83 works closely with several businesses, including GE Healthcare. Adam Pautsch and Doug Dietz, employees of GE Healthcare and close collaborators with B83, will present on the basics of Design Thinking, the importance of direct customer feedback, some of the methods used for building quick, low cost prototypes for customer testing, and learnings from the designs that B83 has worked on.

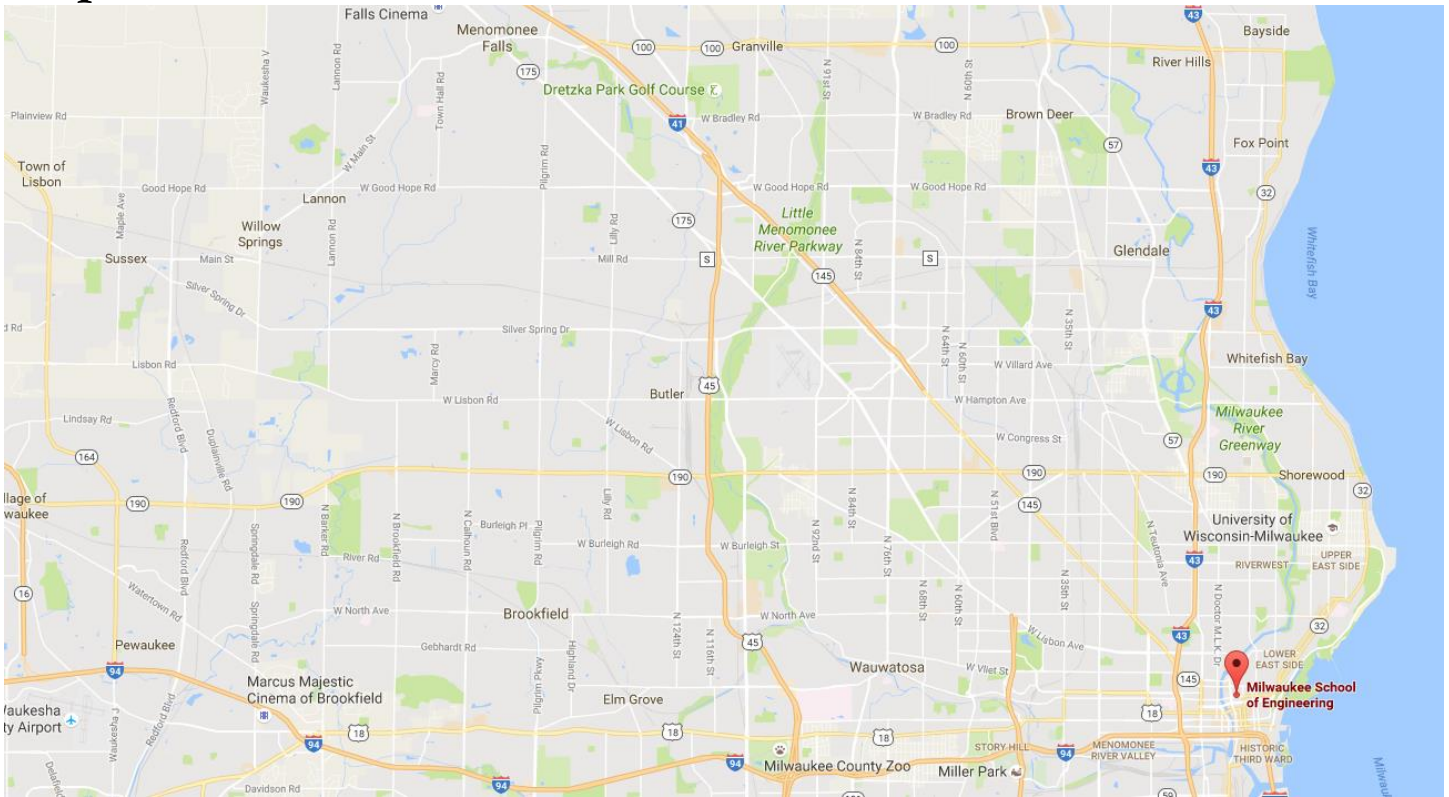
Adam Pautsch has worked for GE for 9 years, including nearly 5 years at GE Healthcare, preceded by 4 years at the GE Global Research Center. Adam was the founder of the GE Healthcare Makerspace, a lab for conceptual development and prototyping which tests new technologies and ideas to add value and innovation to products. He received a PhD in Mechanical Engineering from UW-Madison, with a minor in Medical Physics. He holds 8 issued US patents, plus 5 additional ones in the submission process, along with over 20 publications.



Doug Dietz graduated from Purdue University with a Bachelor degree in Industrial Design. He then attended University of Illinois receiving his Masters in ID/ Human Factors. Doug joined Texas Instruments as part of their Corporate Innovation Team where he worked on advanced concepts within all divisions. Doug holds numerous Patents including several for the first Flat-bed scanner, laptop computer, and TI/90 calculator. Doug joined GE in 1989. While at GE Doug has compiled 8 Utility Patents and 23 Design Patents. As well as an EDISON Award for the GE Pediatric Adventure Series and numerous IDSA/ IDEA Product Design Awards

Doug also teaches creative Innovation modules (design thinking) as part of GE MENLO. Doug is also an instructor at Stanford University as part of their d.school coaching staff for Executive Design Thinking BootCamps. Doug is currently is Lead Innovation Architect for two key design incubators; GEHC Menlo Immersion sessions, and the Pediatric/ Adventure Series.

# Map and Directions



## Directions from the North:

From I-41S: Continue onto I-41 S. Keep left at the fork to stay onto US-45 S. Merge onto I-94 E. Use the right 2 lanes to take exit 310 B for I-43 N toward Green Bay. Keep right to continue on Exit 72C, follow signs for Kilbourn Ave. Continue straight onto W Kilbourn Ave. After 0.6 miles, turn left onto N Broadway. Destination (***MSOE Todd Wehr Auditorium – 1025 N. Broadway, Milwaukee, WI***) will be on the left. Take a right into the MSOE Broadway Parking Lot.

From I-43S: Continue onto I-43 S. Take exit 73A toward McKinley Ave. Continue straight onto E Knapp St. After 0.3 miles, turn right onto N Broadway. Destination (***MSOE Todd Wehr Auditorium – 1025 N. Broadway, Milwaukee, WI***) will be on the right. Take a left into the MSOE Broadway Parking Lot.

## Directions from the South:

From I-94 W: Continue onto I-94 W. From I-94 W, continue onto I-43 N. Use the right lane to take exit 73A to merge onto WI-145 S/W Fond Du Lac Ave toward McKinley Ave. Keep straight onto E Knapp St. After 0.3 miles, turn right onto N Broadway. Destination (***MSOE Todd Wehr Auditorium – 1025 N. Broadway, Milwaukee, WI***) will be on the right. Take a left into the MSOE Broadway Parking Lot.

## Directions from the West:

From I-94 E: Continue onto I-94 E. Use the right 2 lanes to take exit 310B for I-43 N toward Green Bay. Keep right to continue on Exit 72C, follow signs for Kilbourn Ave. Continue straight onto W Kilbourn Ave. After 0.6 miles, turn left onto N Broadway. Destination (***MSOE Todd Wehr Auditorium – 1025 N. Broadway, Milwaukee, WI***) will be on the left. Take a right into the MSOE Broadway Parking Lot.



# Young Professionals Event – About the Event

## Event Agenda

Check-in.....7:15-7:30pm  
Intros/Tour.....7:30-8:30pm  
Networking/Tasting.....8:30-9:00pm

## Registration Fees

SAE Members/Spouses.....\$15.00  
Guests/Non-members .....\$20.00

## Registration

**Registration Deadline:** November 3<sup>rd</sup>

**Maximum Attendance:** 40 attendees

### **Ways to Register:**

- Online with a charge card via [www.milwaukeeesae.com](http://www.milwaukeeesae.com)
- By phone: 920-602-5882 (Nerissa Cerny)
- By email: [nerissa.cerny@harley-davidson.com](mailto:nerissa.cerny@harley-davidson.com)

### **Registration required – no walk-ins allowed**

Note: This event is intended for young professionals and upcoming graduates to network in a casual professional environment, and as such, the registration will be limited to individuals aged 21-35. We thank you for your understanding.

### **Date:**

Friday, November 4<sup>th</sup>

### **Location:**

Milwaukee Brewing Company, 613 S 2<sup>nd</sup> Street, Milwaukee, WI

### **Details:**

Join other Young Professionals from SAE Milwaukee and local technical industries for a special tour and beer sampling at the Milwaukee Brewing company. This isn't just your average brewery tour! Brian Blazel, MSOE alum and current brewer at the Milwaukee Brewing Company, will host an in-depth technical tour of the brewery's operations, equipment, and systems. Appetizers and networking will follow the tour. Come enjoy local brews with fellow technical professionals!

Please arrive no later than 7:30pm and be prepared to show an ID for proof of age.

## Board Member Spotlight



### Lauren Goulet – MSOE Chapter Chairperson

Hello All! For those of you who do not know me, I am the current chairperson for the Milwaukee School of Engineering (MSOE) chapter of SAE. This is my second year serving as chairperson of this chapter, and I previously held the role of secretary. I have been actively involved with the SAE Milwaukee Section for the past three years and have enjoyed meeting several of you at industry tours and events!

I grew up in Greenville, Wisconsin – a small town just outside of Appleton. Growing up I spent a lot of time with my family in the outdoors. To this day I still enjoy camping, fishing, boating, canoeing, and more recently, trap shooting. When I was in the 4<sup>th</sup> grade I found my passion for the sport of NASCAR. My love for stock car racing has taken me around the country attending several NASCAR races and visiting race shops.

I attended Hortonville High School where I had the opportunity to participate in several Project Lead the Way engineering classes. It was through these classes, and my passion for racing, that I decided to pursue a degree in mechanical engineering.

I am currently in my final year at MSOE and will be graduating in the spring. For the first three years of college, I was a member of the SAE Supermileage Vehicle Team. A majority of my time and effort on the team was spent designing the chassis, steering, and braking systems of our gasoline-powered vehicle and battery-electric powered vehicle. I also had the opportunity to be the driver of our gasoline-powered vehicle – competing in five competitions throughout the three years. When it became time to choose my senior design project, I knew that I wanted to continue with an SAE design team, if at all possible. At just the right time, the opportunity came to restart SAE Baja as a senior design project at MSOE. I am currently working with a team of students to design and fabricate the chassis and suspension system for the beginning of a new SAE Baja vehicle.

Outside of school I have participated in internships with Miller Electric Manufacturing Company and John Deere. During both of these internships I was able to apply my knowledge from the classroom, as well as SAE collegiate design experience, to major engineering projects. After I graduate I hope to join a company in the mobility industry as a mechanical engineer.

# Chairman's Letter

SAE Milwaukee Section Members and Friends,

Well, I've started my first year as SAE Chairperson. As we did at our first meeting I'd like to recognize Garrett Herning for his three years as Chairperson as he passed the torch to me and he's moved on to a new role as our treasurer and project manager. Thanks Garrett for the prior and continued service!

Our first meeting was sponsored by Modine where members were provided a great meal by Modine and given a great presentation by Scott Wollenberg and Kyle Schultz. Thanks to Mitch Crawford and Drew Boyer for putting this great event together. Finally, I'd also like to recognize the great group of tour guides in Dusty Flunker, Drew Boyer, Kyle Schultz, Josh Cassavoy, and Rob Runte.

This month I won't be available for the October Meeting at Milwaukee Tool, but I'm sure the team there will have a fantastic tour and presentation for the membership. Milwaukee tool has an impressive facility and I'm positive the event that they are sponsoring will be a knockout.

In November we will have our annual Student Night, where for the first time we have a sponsor that will be presenting after the student presentations. I've had a peek at what B83 is bringing and expect it will be very interesting to students and professionals alike!

Student night will showcase the student vehicles and let them compete for the sponsorship money we have allocated for them. Last year we had 5 schools and over 70 students in attendance. They did an incredible job and we expect a repeat performance this year. If you have never been to a student night, it's not just for students. This is a wonderful networking event as well as a way to give guidance and feedback to some up and coming engineers who will be joining us in industry in the next few years.

As a section we have several new officers in place and have several initiatives we are working on this year. Some of these are engaging middle school and high school kids to a career in engineering, engaging our members through events and tours, and supporting the six engineering colleges in our area in the SAE Colligate Design series.

Hopefully you've read this far as this is very important; this SAE section works because of volunteers! The board is always looking to get the word about SAE out and needs additional volunteers to help with special projects, long term SAE initiatives and shadow opportunities to help with continuity. If you have some time to give, please contact any of the board members or drop me an email below and we will help connect you with an opportunity that matches your interests.

I look forward to seeing you at an upcoming event.

Van Phifer

SAE Milwaukee Section - Chairman

VanPhifer@gmail.com

# Milwaukee Section 2016-2017 Governing Board

## **BOARD CHAIRMAN:**

Van Phifer  
[vanphifer@gmail.com](mailto:vanphifer@gmail.com)

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## **TREASURER AND PROGRAM MANAGER:**

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## **MOTOTSPORTS CHAIR:**

Hannah Neitzke—Harley-Davidson  
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## SAE Board Member Shadow Program

Members, your board of directors has created a new way for you to get involved in the activities of the SAE Milwaukee Section!

Do you like the service and support that your SAE Milwaukee Section provides to you? Do you have some fresh ideas to make your section better? Or.....would you like to just get involved?

If you would like to participate but do not know how to get started, we have the program for you. This new program allows you to shadow a board member to learn the details of what they do for this section. With this opportunity you can investigate/help a position that interests you without jumping in with both feet. This will allow you to participate to the level you are comfortable with or find the position that suits your talents and/or interests.

***We would like to invite you to Shadow a Board Member.***

If you are interested in this opportunity, please contact Randy Hoffman at (920) 397-6644.



## SAE Milwaukee STEM/AWIM program

Your Milwaukee Section needs your help with expanding the AWIM program within the local schools. AWIM (A World In Motion) is a teacher-administered, volunteer-assisted program that brings Science, Technology, Engineering and Math (STEM) education to life for K-12 grade students. Program focuses on various age-appropriate challenges that are taught through the use of “kits” – students build different models using these kits while learning about basic principles of physics, motion and flight.

We have paired up with Messmer Prep and St. Rose/St. Leo schools in Milwaukee and will be introducing the AWIM program there



- Both schools are part of the Messmer Catholic Schools and serve the inner city students through a Voucher/Choice program
- This is **first time** a program of this kind is being introduced at Messmer – the program was **specifically requested by teachers** there to inspire girl students and encourage them to pursue STEM subjects later in their educational career
- AWIM program to be introduced for 4<sup>th</sup> and 5<sup>th</sup> grade students at both schools, with a focus on all 3 elementary and one middle school challenge
- **We want YOUR help** in assisting students in Fall and Spring sessions in after-school program setting (~ 3:30 – 5:00 pm)
- **For more information on volunteering, please contact Negin Salami, [negin.salami@jci.com](mailto:negin.salami@jci.com)**

## Section Sponsors



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