

SAE MILWAUKEE

An SAE International Section

Upcoming Events

Student Night, Marquette University

- November 3rd

October 2015 Newsletter

November Event:

SAE Student Night



November 3rd, 2015

5:00PM

Marquette University Engineering Hall
1637 W. Wisconsin Avenue, Milwaukee

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 28th

Maximum Attendance: 200 attendees

Ways to Register:

- Online with a charge card via www.milwaukeesae.com
- By phone: 920-251-7518 (Jace Birschbach)
- By email: jace.birschbach@marquette.edu (Jace Birschbach)

Registration required – no walk-ins allowed

Location:

Marquette University Engineering Hall – 1637 W. Wisconsin Avenue, Milwaukee, WI

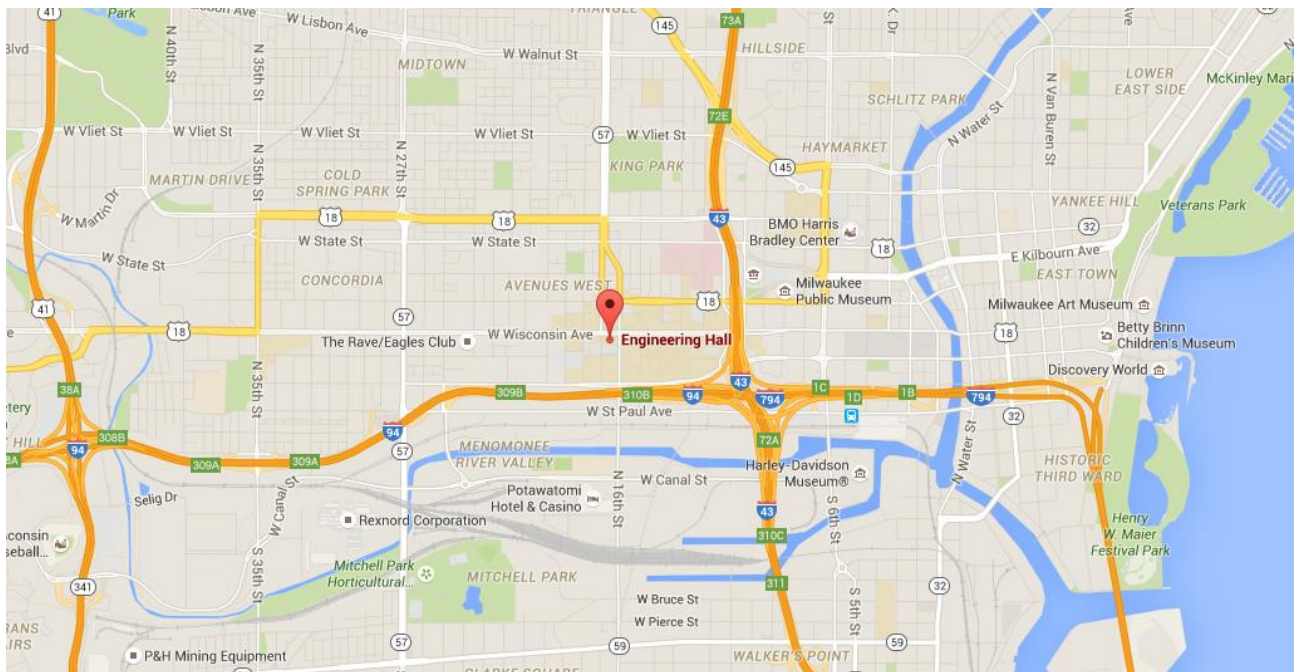
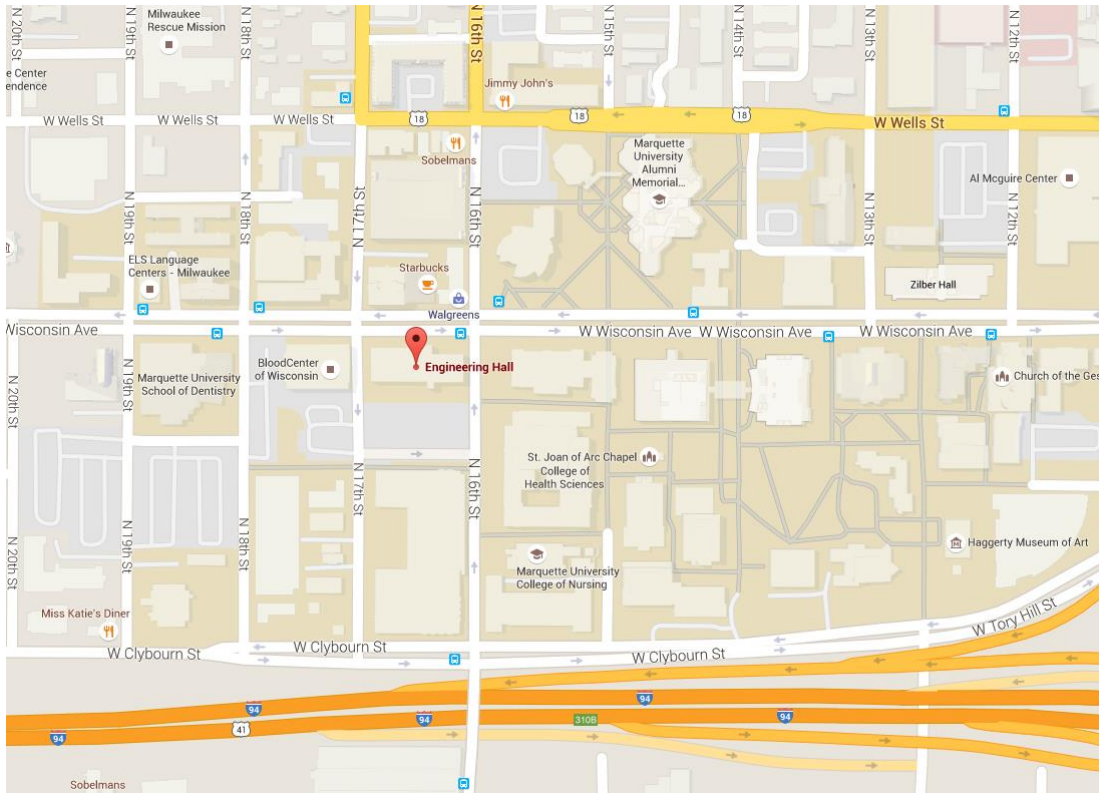
Displays:

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 present 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.

Location Map



Parking

Tentatively, parking will be available in the parking structure at 749 N 16th St, Milwaukee for a fee in the range of \$3 to \$5. The event organizers may be able to have these fees waived, and if so, an email will be sent out as an update.

Student Night Score Sheet



Presentation time limit 12 minutes - deduct points if exceeded

	Points	Ranking					
		MSOE	MTU	MU	NMU	UW	UWM
Student Chapter Accomplishments							
1) Chapter Activities	10						
2) Chapter Meeting Topics	5						
3) Results of Past Competitions	10						
Student Chapter Strategic Initiatives							
4) Community Outreach	5						
5) "What makes your chapter unique and special?"	10						
6) Leadership Development	10						
Collegiate Design Series Technical Accomplishments							
7) Technical Accomplishments	20						
8) Lessons learned	10						
Presentation Quality							
9) Oral Presentation Quality	10						
10) Graphical Presentation Quality	10						
Time Penalty							
11) Any amount of extra time results in a 5pt deduction	-5						
Total							

Student Design Competition Updates

The Michigan Tech SAE Student Chapter was able to come out of 2014-2015 school year with many victories in tow. Each team competed in a variety of competitions and events. Michigan Tech's Formula team was able to pick up its highest finish in the past ten years, placing 23rd out of 110 teams. The Baja team participated in several events across the country. Their regional race results include placing 1st, 2nd and 5th at the Backwoods Baja, 2nd at Winter Baja and 20th place at Midnight Mayhem. They also competed in two national competitions. In Alabama, they finished 19th overall and took 5th place in suspension and 10th in the hill climb event. The second national event was held in Maryland, where they finished 37th overall. One of the other chapter teams, Supermileage, placed 4th out of 29 teams at their competition this year. They finished with an impressive 793 miles per gallon. In March, the chapter's Clean Snowmobile Challenge team entered two snowmobiles into competition. Completing the week-long event, the team left with 6th place overall out of 13 teams in the Internal combustion category and 4th place out of 6 teams in the Zero-Emissions category. As a whole, the Michigan Tech chapter had a successful year and plan to continue that success into the coming 2015-2016 school year.

Michigan Tech

The experience of SAE Baja competition as told by Rachel Griep from Northern Michigan University:

From the moment I entered the Sales Presentation, the atmosphere was electric. There were students from every region of the country, teams coming from across the globe, and all of us were there bumping into each other just trying to get a glimpse of that one thing. We wanted to win.



Northern
Michigan
University

Throughout the week, you can see the excitement build between teams and all of a sudden, you're meeting and talking with students who share the same interest and enthusiasm as you. It's no longer just about winning; you make friends and start helping each other out, cheering them on, and hoping they reach their goals, all while secretly hoping they are just one step behind you. In the spirit of good competitions, all the teams worked together. When Tech Inspection throughout our wrist restraints and declared our clutch cover to be no longer in spec, we looked for other teams for help. University of Wisconsin – Platteville let us borrow their extra clutch cover and University of Illinois - Urbana Champaign came to our aid with a set of arm restraints, while our team helped out the Bits Pilani-Dubai team. It is a humbling experience to ask another team for help, knowing that a silly clutch cover could prevent you from passing tech. At the same time, I was proud of our team for stepping up and helping someone else. The Bits Pilani-Dubai team had some struggles of their own.

The NMU Wildcat Racing team stepped up as a whole and built Dubai a seat.

We welded up the seat frame, matched it to their car, fiber glassed the exterior and helped with padding. It's nice to know a complete stranger can have your back, granted there is no way on earth any team is going to tell you what ratio their running in their gear case, but when it comes down to it, they'll lend you a few things. Everyone is there to win, but it wouldn't be Baja without the community.

Recap of MacLean-Fogg Event

To hear how MacLean-Fogg Engineered Plastics Company creates their competitive edge was “fasten”ating! From the tour and presentation, we were educated on many state-of-the-art technologies, which are especially critical for the auto industry, where they strive for success with lightweighting, safety and cost reductions, all through process and materials improvements.

Later on, we were all participants of an engineering challenge to create the tallest spaghetti noodle tower, with a marshmallow on top. Congratulations to a MSOE team for winning this endeavor.

Rob Whitney, Pres., then encouraged the engineering students with finding a company where “creative thinking must enhance your culture, like we do, here at MacLean-Fogg!”

We thank MacLean-Fogg for your generous sponsorship with the dinner, including the wonderful, homemade pies! These extra funds are then included with the awards to the Student Chapters, which we will distribute, at Student Night. Please join us and help us award the student’s efforts there. MacLean Fogg is also our lead sponsor of our Clean Snowmobile Challenge, as well as supporters of Formula, and will be for Baja too!

ASME Milwaukee Section Continuing Education and Professional Development Seminar

ASME Milwaukee has extended an invitation to SAE Milwaukee members to join them on Saturday, November 7th for their Continuing Education and Professional Development Seminar. The seminar runs from 7:30AM to about 1:30pm. Professional Development hours can be earned for attending the seminar. There are four seminar sessions, lasting 1 hour each:

- 8:30-9:30: Systematic Innovation (1 PDH) – Dr. Sandra Anderson, Director of Master of Engineering in Engine Systems, Department of Engineering Professional Development, University of Wisconsin-Madison
- 9:35-10:30: Engineering Ethics (2 PDHs)– Dr. Subha Kumpaty, Professor of Mechanical Engineering, Master of Science in Engineering Program Director, Milwaukee School of Engineering
- 11:00-12:00: Resolving Hydraulic System and Component Field Failures (1 PDH) – Dr. Mathew Thomas, Reliability Process Manager for CNH Industrial
- 12:05-1:00: Group discussion on ethics case studies and Q&A with speakers and presenters

The cost of the seminar is:

- Full Seminar including PDHs: \$75
- Full Seminar, no PDH credit: \$35
- Individual Sessions (Up to 2, including PDHs): \$25 each

The seminar will take place at Brookfield Suites, 1200 S Moorland Rd, Brookfield, WI

For more information and to register, visit the link below:

<http://events.r20.constantcontact.com/register/event?oeidk=a07eb13pbf0734809b&llr=hpcqvigab>

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richterway@sbcglobal.net

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S.Jain@na.modine.com

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nerissa.hanson@harley-davidson.com

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rhoffman2@wctc.edu

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Dale Wiza—Professional Engineering
Placements
dale@engineeringplacements.com

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kurt.person@hbpsi.com

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a.m.boyer@na.modine.com

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A Letter from the Chairman

Hello SAE Milwaukee Section Members and Friends,

Fall is in full swing and it won't be too long until the busy Holiday season and the possibility of that familiar white stuff on the ground.

For November we will be having our annual Student Night, where we 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. This year we expect an equally large turnout by the students. If you have never been to a student night, it's not just for students, and I encourage you to join us. Up-and-coming engineers are what keep our SAE Section, profession, industry, and country strong. Please come out and support these young engineers and see what they have been busy working on. This is a great opportunity to network with industry and college faculty who support our section.

As a section we have several initiatives we are working on this year.

The first is our STEM/AWIM initiative to help introduce middle school and high school students to engineering. If you would like to volunteer to help a local school or if your children's school would like to get a program going, please contact any board member and we can help connect the dots.

Our second initiative is our shadow program. We are always looking to keep our section strong and plan the best events possible. Please consider becoming involved in our leadership team. We can accommodate your needs if you like to become a board member or just help plan a monthly event. With our shadow program we pair you up with a board member and you shadow them through the process. Please talk to any of the current board members about the spot we have for YOU!

I look forward to seeing you at an upcoming event.

Garrett Herning

SAE Milwaukee Section - Chairman

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 4th and 5th 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 Sid Jain, S.Jain@na.modine.com**

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