

SAE MILWAUKEE

An SAE International Section

Upcoming Events

- October 12th – Harley-Davidson

Future Events

- November 2nd – Student Night (Location: UW-Madison, Sponsored by Generac)

September 2017 SAE Newsletter

October 2017 Event



Harley-Davidson Motor Company

Thursday, October 12th, 4:30pm

3800 W Juneau Ave,
Milwaukee

About Harley-Davidson Motor Company

Fulfilling dreams of personal freedom is more than a phrase. It's our purpose and our passion. We bring a commitment of exceptional customer experiences to everything we do – from the innovation of our products to the precision of our manufacturing – culminating with our strong supplier and dealer networks. We are Harley-Davidson®.

To celebrate Harley-Davidson's 115th Anniversary year, the Motor Company just launched a custom revolution: Eight all-new Softail® models that merge the hard-riding performance of the Dyna® line with the unparalleled custom look of the Softail line.

Designed under the largest product development project in company history, the new bikes compared to prior year models feature a stiffer and significantly lighter frame built to harness the pulse-quickening torque of the new dual-counterbalanced Milwaukee-Eight® 107 and 114 engines. With high-performance dual-bending valve front suspension and an easily adjustable hidden rear mono-shock, the aggressively styled 2018 Softail models are faster, lighter and better handling than any of their Big Twin cruiser predecessors.

The 2018 Harley-Davidson® motorcycle lineup also introduces the most robust array of custom Touring bikes the company has ever produced, boasting show-stopping style and plush comfort ready to attack rough city streets or winding country roads. Three new completely restyled Touring models enter the limited-edition Custom Vehicle Operations™ family with the largest-ever stock engine from Harley-Davidson, while new Street Glide® Special and Road Glide® Special models get sinister, blacked-out styling.

For more information, visit www.h-d.com



About the Presenter

Ben Wright is the Chief Engineer for the Harley-Davidson Softail Product Family, which recently launched a completely redesigned lineup of big twin cruisers motorcycles with the introduction of the 2018 model year. He has been with Harley-Davidson for 17 years in the OE product development group and supported and led numerous motorcycle development projects including V-Rod, Sportster, and Touring programs. Prior to Harley-Davidson Ben worked at Caterpillar Inc. as a Senior Project Engineer in their Wheel Loader Division. Ben is a graduate of the University of Wisconsin-Madison with a Bachelor of Science in Mechanical Engineering.

Event Agenda

Registration 4:30-5:30pm
Dinner..... 5:30-6:30pm
Presentation/Q&A..... 6:30-8:00pm

Registration Fees

SAE Members \$25
Retirees..... \$20
Students..... \$5
Non-members \$35

Registration

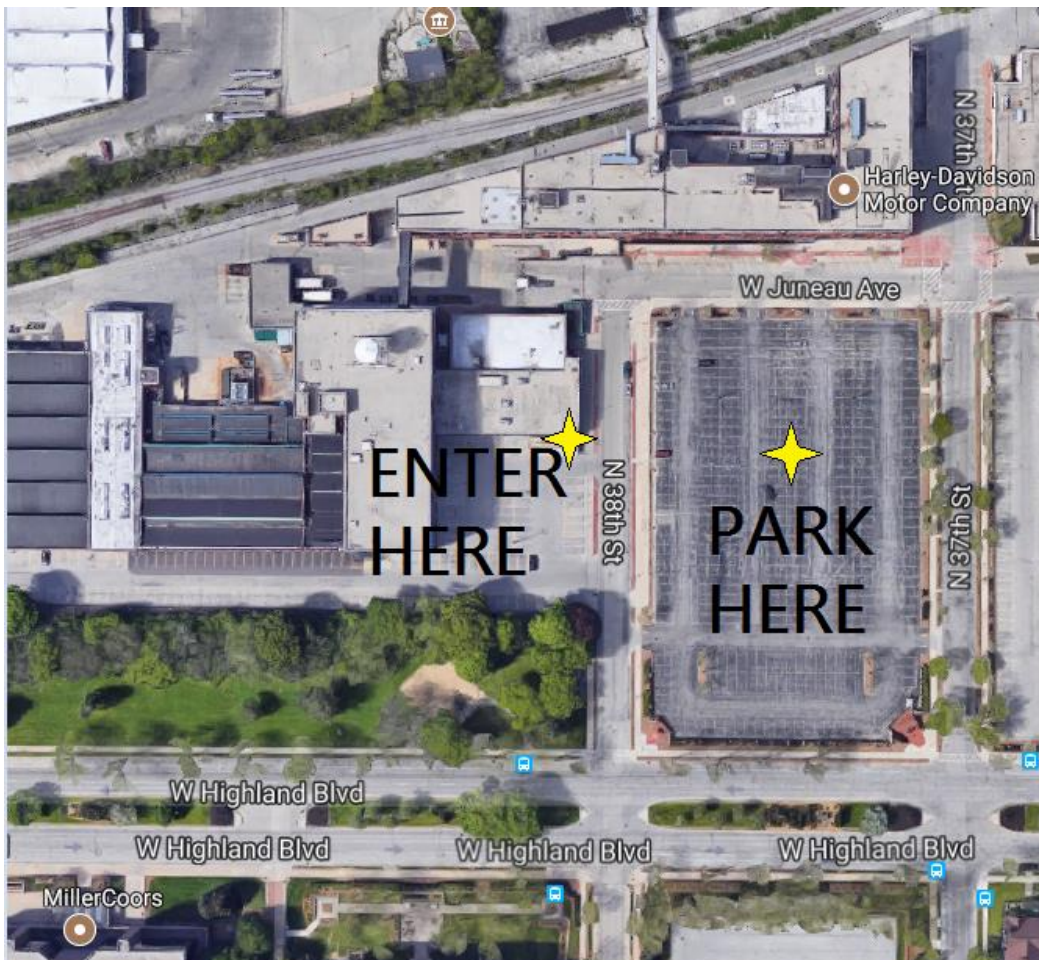
Registration Deadline: October 6th at 11:00am

Maximum Attendance: 200

Ways to Register:

- Online via the [SAE Milwaukee website](#)
- By phone: Nerissa Cerny – 414-573-3819
- By email: Nerissa Cerny – Nerissa.Cerny@harley-davidson.com

Map



3800 W Juneau Avenue, Milwaukee

New Member Welcome

The SAE Milwaukee Board would like to extend a special welcome to our new or recently returned members! Thanks for joining us!

Evan Bray	Brady Corp
Joseph Dalum	Odyne Systems LLC
Seiichi Endo	Waupaca Foundry
Matt Endres	Wells Vehicle Electronics
Stephanie Gries	Milsco Mfg Co
Robert Guthrie	Kohler Co
Richard Hastings	Harley-Davidson Motor Co
Derrick Hesser	ANSYS Inc
Mike Ihm	Apex Embedded Systems
Matthew Jorgensen	Affiliated Construction Services
Adam Meaux	Brady Corp
Luke Mottley	Oshkosh Corp
Michael Murphy	Horizon Global Americas
Wayne Philips	Industrial Marketing and Consulting
Jeffrey Prom	Sharon-Cutwell Co Inc
Mojtaba Rajaei	Harley-Davidson Motor Co
Peter Rankin	Brady Corp
Daryl Rothamer	ACS Inc
Randy Rozema	ACS Inc
David Soper	IBM Corp
David Steele	Waupaca Foundry
Andrew Sugden	Kohler Co
Vladimir Vega	Oshkosh Corp
Zack Washatko	AROW Global Group
Dennis Webb	DeltaHawk Engines Inc
Gary Weidner	GW Technical Services Inc
John Wiesbrock	Waupaca Foundry
Rachel Wilde	Harley-Davidson Motor Co
Ethan Brodsky	
Cameron Craig	
Michael Lemmer	
Daniel Schlais	



ANSYS Sponsorship of Milwaukee SAE Competition Teams - 2017-2018 Season

ANSYS, Inc. is happy to announce a sponsorship open to all SAE Competition Teams including the Formula SAE, Aero Design, Supermileage, Hybrid, Clean Snowmobile Challenge and Baja teams.

Teams can be provided a package of ANSYS Academic Products to explore the power and performance of ANSYS structural, fluid, composites and electronics based simulations. Using these tools to design suspensions, steering systems, composite structures, or determining antenna placement, the engineering teams are gaining real-world experience that will help them succeed as professionals.

Student teams can apply for this sponsorship by contacting Jack Malluege (jack.malluege@ansys.com) at ANSYS, Inc.

Here are a few steps that will help you to make the most of using ANSYS tools for your design. Depending upon your experience with ANSYS, you can decide to skip the first 2 steps.

Step 1 - Discover how ANSYS Technology is key for your design

Here are some examples of how other competitive teams use ANSYS technology for their designs:

[Texas Guadalupe team](#) | [UC Irvine Hyperxite team](#) | [U Wisconsin BadgerLoop team](#) | [MUR motorsports](#) | [RIT SEA Team](#)
[Berkeley Solar Team](#) | [U Toronto Solar Team](#) | [Washington U Team](#) | [Berkeley Hyperloop](#)

Step 2 - Start learning the tools

Freely available software to get started: Discover the ANSYS tools via the free student download at www.ansys.com/student - You can select **ANSYS Student** if you want to have access to products like Fluent and Mechanical but we recommend you try our newest user interface - fully integrated and easier to use: **AIM Student**

Getting started - YouTube tutorials: See all AIM Student How-To videos on YouTube [here](#)

Make sure to use SpaceClaim for your geometry simplification - Discover the top 10 reasons to use SpaceClaim [here](#)

Cornell University MOOC and tutorials: Free and on-demand MOOC (Massive Online On-demand Class) from Cornell University. Learn how to analyze real-world engineering problems using ANSYS simulation software and gain important professional skills sought by employers. Enroll [here](#).

A large number of tutorials and resources are just a click away. For example, [Cornell University - SimCafe](#) - (Prof. Rajesh Bhaskaran)

Step 3 - Getting Full Capability Licenses

Ready to use the full capability ANSYS software? A few things to know:

- 1) We will send you licenses to be installed on a university license server. You can download ANSYS tools on any computer, connect to the license server and you are ready to go. If you do not have good hardware/computer setup, ask your IT department for help
- 2) We will need to create a license form. For this we need the name, address and e-mail of your team faculty mentor (usually it is a Professor). We will also need information about the computer where the license will be installed. The information needed can be found by starting [here](#). Forward the resulting file to Jack Malluege (jack.malluege@ansys.com).
- 3) You will receive licenses as well as a login to the ANSYS Customer Portal where you can download the full capability tools, and access other valuable information.

A few tips!

From our experience working with many teams for years, here are some best-practices we have learned:

- 1) Start by learning the tools and doing many tutorials
- 2) Start small! Simplified models first, larger models once you master the tools
- 3) Work with your Professors using ANSYS tools; ask them for help; ask graduate students using ANSYS for their support.

We look forward to working with you on the 2018 Competition!

ANSYS Contacts:

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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, find the position that suits your talents and/or interests, or to serve in a committee with others.

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

Inspiring Today's Students to Become Tomorrow's Engineers and Scientists

OUR K-8 STEM EDUCATION SOLUTION, A World in Motion (AWIM), is a teacher-administered, industry volunteer-assisted program that brings science, technology, engineering and math (STEM) education to life in the classroom for students in Kindergarten through Grade 8. Benchmarked to the national standards, the AWIM program incorporates integrated STEM learning experiences through hands-on activities that reinforce classroom STEM learning.

Program Highlights & Benefits

- It's interdisciplinary in nature, which helps students learn to make meaningful connections among disciplines
- All activities correlate with the Next Generation Science standards and the Common Core standards
- It builds bridges between corporations and classrooms by giving teachers, volunteers, and students the opportunity to work together and learn from each other
- More than 72,000 curriculum/challenge kits have been provided; over 4.5 million students participate; more than 30,000 volunteers.



Industry Support & Volunteers

- Industry support is essential to this program. Corporations and their employees can influence the ways in which youth are prepared to meet the future by sponsoring schools in their communities. By doing so, schools can qualify to receive free or low cost AWIM program Challenge kits.
- Industry volunteers provide students with first-hand impressions and information about careers in their chosen profession and serve as an in-classroom resource for teachers.

Accordingly, Johnson Controls has been supporting certain Milwaukee county schools by providing the kits and volunteering hours over the past 8 years. This year, the “Jet Toy” challenge will be held for three Elementary schools – Atwater, Lake Bluff, and Kluge – proudly in collaboration with SAE - Milwaukee Section and broader SAE members as of the volunteers to enrich the students’ hands-on experience.

The program will be started in early February.

For more information on volunteering, please contact Negin Salami:

negin.salami@jci.com

Milwaukee Section 2017-2018 Governing Board

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