

An SAE International Section

Upcoming Events

- February 15th– JW Speaker
- February 19th Chicago Auto Show

Future Events

- March SAE Clean Snow Challenge
- March Generac
- May Synerject

January 2017 SAE Newsletter

February Events:



Engineered. Lighting. Solutions.

February 15th, 2017 5:00 pm

N120W19434 Freistadt Road Germantown, WI 53022



February 19th, 2017 8:00am – 7:00pm

Charter Bus will leave from the College Ave Southwest Park and Ride

About JW Speaker

Founded in 1935 by John W. Speaker, J.W. Speaker Corporation is focused on developing innovative, high-performance vehicular lighting solutions for OEM and aftermarket customers around the world. J.W. Speaker specializes in LED & other emerging lighting technologies and proudly design, manufacture & assemble their products in Germantown, Wisconsin.



J.W. Speaker's history began in 1935, producing a variety of products including tire repair equipment, radiator fronts, car and truck mirrors, automotive lighting, and the P-38 GI can opener and Heatab miniature portable stove, which were widely used during World War II and for several decades after by the U.S. military.

In 1960, John's son Jack guided the company to focus on production of original equipment manufacturer vehicle lighting, initially for lawn & garden and golf & turf tractors. Since then, J.W. Speaker has developed and specialized in manufacturing a wide variety of lighting products for other OEMs in agriculture, construction, on-road commercial, material handling, mining, motorcycle, recreation, and aviation markets.



Today, J.W. Speaker is still a family-run business and is led by John's grandsons, Tim and Jamie Speaker.

About the Event

Event Agenda

Registration	5:00-5:30pm
Tour	5:30-6:15pm
Dinner	6:00-7:00pm
Presentations, Q&A	7:00-8:00pm

Registration FeesSAE Members\$25Retirees\$20Students\$5Non-members\$35

Registration

Registration Deadline: February 13 at 5:00pm

Maximum Attendance: 75

Ways to Register:

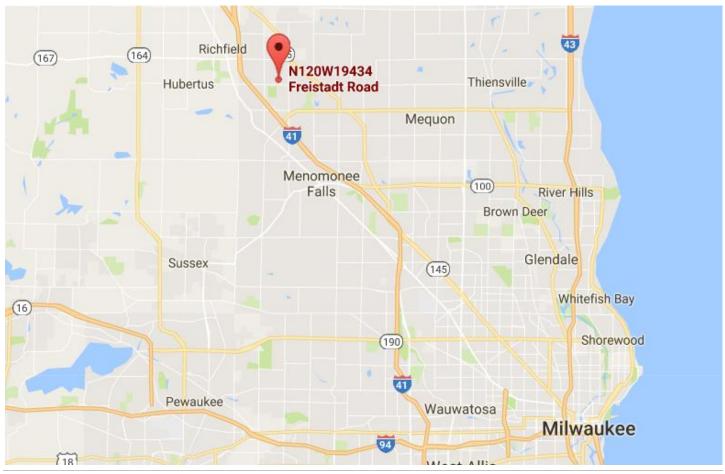
• Online with a charge card via www.milwaukeesae.com

• By phone: 414-807-9663 (Dale Wiza)

• By email: <u>dalewizaengplacements@outlook.com</u> (Dale Wiza)

Registration required - no walk-ins allowed

Dinner will be catered by Aldo's Pizza & Pub - homemade Italian: lasagna, mostaccioli, salad, bread.



Chicago Auto Show

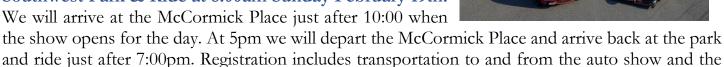
Mazda Motor Sports Presentation - February 19th



SAE Milwaukee invites you to join us for a special presentation by John Doonan from Mazda Motorsports at the Chicago Auto Show on February 19th. Last June, Mazda Motorsports gave us a technical talk and walk around of their MX-5 Cup Series car at the June Sprints. John will give us this and more with a private (SAE and guests only) presentation at the Chicago Auto Show on February 19th.

Meet at the Mazda Area at 12:15. We will head upstairs to hear John's presentation at 12:30pm followed by a walk around of the MX-5 Cup car afterwards.

Milwaukee SAE will make getting to the show easy on the 19th. The first 50 people to register will have a seat reserved on a charter bus departing from the College Ave Southwest Park & Ride at 8:00am Sunday February 19th.



Mazda Motorsports presentation. You must purchase admission to the show separately as well

as any food or drinks at the show. This is not included in the registration fee.



Members/Retirees/Guests: \$25

Students (College/High School/Grade School): \$15

Please register online or via phone/E-mail

Garrett Herning at 262-309-3622 or garretth@pwrtst.com

For more information about the 2017 Chicago Auto Show please visit: http://www.chicagoautoshow.com/



Clean Snowmobile Challenge – March 6-11

If you haven't experienced a Clean Snowmobile Challenge yet, please consider, as you'll then look forward to the following year's event too! Many attend this Collegiate Design Series event for just a couple of days: take in some snowmobile riding, share engineering wisdom with students, be inspired by the student's creative ideas for versatile engine performance, or to serve as a judge (riding, reviewing of papers, etc.). See the schedule of events on the next pages.

To judge papers, Jay Meldrum, the CSC Director says, "SAE has a new method of downloading the papers and filling out the judging form. Once you fill the form out and submit it I will have access to it. No need to send it and it will also sum the numbers. If you can contribute time to review papers, please respond to this email with how many papers 4, 8, 12, 16, or 20. See attached info.

Thanks again for your contribution to competition-based engineering education."

Best regards,

Jay S. Meldrum, Sr.

Director O: 906-487-3178 C: 906-281-1069

*The UP has 154" of snow to date, 29" on the ground, as of 1/18!

If you'd like to learn more, please contact Dale Wiza, 414-807-9663, or <u>dalewizaengplacements@outlook.com</u>. Or watch a video at http://www.superiorideas.org/projects/clean-snowmobile





Date/Time	Schedule	Meeting Place
Monday, March 6 8:00 am to 7:00 pm	Teams Arrive, Registration opens Turn in Snowmobile Description Form	KRC/T3
5:30pm to 6:00 pm	IC and ZE Final Technical Inspections Fire Safety Presentation Hawk Technologies/Ansul/Superior National	KRC/T3
6:00 pm to 8:00 pm Shop open until Midnight	"Early Volunteers" Reception Pizza for students in the shop	Joey's Seafood, Houghton
Tuesday, March 7 7:30 am	Judges Meeting	KRC/T3
10:00 am	Gage Products IC Fueling *Grand Opening Event*	KRC/T3
10.00 am	Electric Sled Range Test	KRC/T3
3:00 pm – 5:00 pm	Endurance Run to Copper Harbor Late Lunch and discussion about Future CSC competitions Sponsored by Horic	KRC/T3 TBD ba Instruments
	Return to KRC - Shop open 5pm until Midni	ght
Wednesday, March 8		
7:30 am	Presentation Judges Meeting	KRC Bldg 69
8:00 am to 5:00 pm	IC Design Presentations	KRC Bldg 69
8:00 am to 5:00 pm	AVL Lab Emissions Event	T5
10-00 +- 11-00	Sensors Inc. In-Service Emissions	T5
10:00 am to 11:00 am	Technical Presentation/Chalk Talk TBD	KRC/T3
8:00 am to 5:00 pm Noon	Make-Up Endurance Miles Lunch for the Presentation Judges	KRC/T3
NOOH	Courtesy of Michigan Tech Career Services	KRC Bldg 69
Noon	Lunch in the shop Cincinnati Chili	KRC/T3
140011	Courtesy of The PCB Group	ARC/15
Student Registration ends		
1:00 pm to 3:00 pm	Electric Sled Draw Bar Pull	KRC/T3
4:00 pm to 6:00pm	Networking with Industry	Copper Country Mall
6:00 pm to 8pm	*Snowmobile Public Display*	Copper Country Mall
	Light refreshments will be served	,
Courtesy of the Michigan Tech Graduate School and Career Services		
Shop open until Midnight	_	KRC/T3



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8:00 am to Noon	PCB and HEAD acoustics Noise Event	KRC T3
8:30 am to 5:00 pm	Polaris Subjective Handling Event	KRC/T3
8:30 am to 5:00 pm	Emissions Events (continued)	KRC/T5

10:00 am to 11:00am Technical Presentation/Chalk Talk

EMITEC- "Catalyst Technology" KRC/T3

Noon Pasty Lunch KRC/T3

1:00 to 4:00pm ZE Design Presentations KRC Bldg 69

5:00 pm to 7:30 pm SAE Milwaukee Section Meeting

Presentation TBD

Announcements for Special Awards Finalists Mandatory Attendance DOW 641

Dinner provided for Registered Students and Volunteers

Provided by Michigan Tech MEEM Department

Shop open until Midnight

Friday, March 10

Judges Meeting	KRC/T3
Emissions Events (continued)	KRC/T5

10:00 am to 11:00am Technical Presentation

Sound Quality

HEAD acoustics, Inc. KRC/T3

Noon Beef Bar-B-Que KRC/T3

courtesy of the Iowa Snowmobile Association

1:00 pm to 6:00 pm Open time to enjoy the Keweenaw

Mt. Ripley Ski Hill, Dollar Bay Motorsports

Dan's Polaris, Houghton Powersports, M&M Powersports

5:00pm to 6:00pm VIP Tours of MEEM Building MEEM

6:00pm to 8:00pm VIP/Volunteer Reception TBD

Shop open until Midnight Sleds Outside by Midnight Students dinner on your own

Saturday, March 11

8:00 am to 8:30 am	NGK/NTK Cold Start Event	Outside KRC/T3
8:30 am to 10:00 am	Emission Testing (if necessary)	KRC/T5
10:00 am	*Polaris Acceleration event*	KRC Test Course
11:00 am	*Polaris Objective Handling event*	KRC Test Course
	ZE Acceleration + Load Test	KRC Test Course
Noon	Judges Meeting to Review Scoring	KRC T1

and Penalties

6:30 pm *Awards Banquet* MUB Ballroom

Banquet Meals for the students courtesy of the PCB Group

* Public Viewing Opportunities*

Generac Engineering Speaker Series

Generac Power Systems has invited SAE members to attend an upcoming 2017 Engineering Speaker Series event at their Waukesha headquarters. The Speaker Series was established to provide a venue for socializing with fellow technical professionals in a casual setting. Food and refreshments will be provided. Presentation topics are applicable to Generac engineering activities, general industry and community interests.

Date: Thursday February 9, 2017

<u>Location:</u> Generac Power Systems

S45 W29290 Highway 59 Waukesha, WI 53189

Agenda: 5:30 – 6:15pm: Arrival and Social

6:15 – 6:30pm: Introduction to Generac Power Systems

6:30 – 7:30pm: The Importance of Noise Control in Engine-Driven Generating Sets

Speaker: Michael Hermes, Senior Test Engineer

Michael will present current and future market challenges, noise reduction techniques, and ongoing development activities for engine-driven generating set products in stationary and mobile

applications.

7:30pm Prize Raffle (Generac iX800 inverter generator) and Conclusion

Attendance is limited to 80 so please RSVP by February 3, 2017 to http://www.cvent.com/d/hvq5qc

Map and Directions: https://www.generac.com/service-support/contact-us/generac-worldwide-locations

Thank you

We'd like to thank Valenti Classics for sponsoring a great evening there. To learn of their fantastic processes and integrity to deliver premium automotive restoration, was very impressive! They invite you to inquire and share more - http://www.valenticlassics.com.

Milwaukee Section 2016-2017 Governing Board

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HISTORIAN

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wheintz-joehnk@aeieng.com

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Dale Wiza—Professional Engineering Placements
dale@engineeringplacements.com

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Drew Boyer—Modine Manufacturing Co. a.m.boyer@na.modine.com

NEWSLETTER EDITOR:

Mike Fricke—HUSCO Automotive michael.fricke@huscoauto.com



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

Section Sponsors







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