

SAE MILWAUKEE

An SAE International Section

Upcoming Events

- February 9th – Chicago Auto Show Press Day
- March 5th – 10th – Clean Snowmobile Challenge
- March 22nd – ACS

January 2018 SAE Newsletter

February 2018 Event **Chicago Auto Show Press Day**



**Friday, February 9th, 9:00 AM –
2:00 PM**

McCormick Place, 2301 S King Dr,
Chicago, IL 60616
(Charter bus available from Milwaukee)

About the Event

Location:

McCormick Place, 2301 S King Dr, Chicago IL

Date and Time:

Friday, February 9th, 9:00 AM to 2:00 PM

Event Description:

This year SAE Milwaukee will be teaming up with the Chicago SAE Section and General Motors to go to the Chicago Auto Show. General Motors is sponsoring our event this year and are giving our group **exclusive access** to the show on the Second Press Day (Friday, Feb 9th) before the show opens to the General Public as well as a technical presentation on the Chevrolet Bolt EV. There will be a charter bus available for transportation from Milwaukee to and from the show. With GM's support, access on press day means no crowds or lines to see the exhibits and demonstrations! See everything new from Detroit up close and personal. GM will also be giving our group a technical presentation on Chevrolet's Electric Vehicle Program by Todd Bruder, Lead Development Engineer for the Bolt EV. Following the presentation, you're free to get lunch and explore the rest of the Chicago Auto Show during the closed-to-the-public press day. All booths will be open and staffed for your questions. All vehicles will be on display. Please see more about the Auto Show at <https://www.chicagoautoshow.com/>.



Details on the Presenter:

Todd Bruder is the Lead Development Engineer for the Chevrolet Bolt EV. In this role, Todd was responsible for bringing multiple systems teams together in the integration of the Bolt EV design and eventual manufacture. Todd is a 26-year veteran of the General Motors engineering team and has worked on all of the company's modern electrification efforts covering technologies ranging from pure BEV, PHEV, to Hybrid systems. Todd completed his Bachelor of Science degree in mechanical engineering at Michigan Technological University and also holds a Master of Engineering degree from Purdue University.



Event Agenda

Board Bus6:30am
Bus Departs..... 6:45am
Arrive at the Show9:00am
Chevy Bolt Presentation..... 9:30-10:45am
Board Bus to Leave Show..... 2:00pm
Bus Arrives in Milwaukee..... 4:15pm

Registration Fees

SAE Members\$25
Retirees.....\$20
Guests/Non-members\$35
Students.....\$10

Registration

Registration Deadline: February 8th

Maximum Attendance: 50

Ways to Register:

- Online via the [SAE Milwaukee website](#)
- By phone: Garrett Herning – 856-313-0581
- By email: Garrett Herning – sae@c2cintegration.com

******* IMPORTANT REGISTRATION INFORMATION BELOW *******

Because this is special access to a Press Day, certain procedures must be followed to secure passes for all attendees. The following information is required for you ticket to the show. Please contact Garrett Herning (contact info above) with:

- Your first and last name
- Address, phone number, and email address

You will receive an email with a link to print out your credentials to allow entry to the show. (Garrett will print out an additional copy when you are registered will and have them on hand.)

Please bring a government-issued photo ID. Make sure the name matches the name you provide to Garrett. To enter the show, **you must have you pass and photo ID** with you to gain entry into the show. All attendees must be at least 18 years old.

Transportation

Charter bus leaving from the College Avenue Southwest Park and Ride (1909 W. College Ave, Milwaukee, WI 53221). Board at 6:30am, depart at 6:45am.

Charter bus leaving McCormick Place. Board at 2:00pm, leaves at 2:15pm, arrive in Milwaukee at 4:15pm

(If you would like to drive yourself, please let Garrett know when you contact him for registration.)

SAE Milwaukee Section Student Night 2017 Review

The Annual SAE Milwaukee Student Night was held this past Nov. 2nd, hosted by the UW-Madison SAE Student Chapter. SAE Student Chapter Advisor Glenn Bower, the Chapter students, and the University of Wisconsin Madison were outstanding and gracious hosts. The evening kicked off with the students showcasing their collegiate design vehicles and tours of the University's Lab facilities for the students and professionals. UW-Milwaukee, MSOE, Marquette University, UW-Madison and Michigan Tech were the Milwaukee Section schools in attendance with vehicles on display. This event allowed the students an opportunity to network with each other and with the section's professional members, which is encouraged at SAE Milwaukee Section events.

After the great dinner, Randy Hoffman welcomed the attendees, our event's **Named Sponsor Generac** and two representatives from SAE International here to learn about Milwaukee Section's Student Night and the process we follow.

Finally, the reason this meeting is held, the SAE Student Sections took the stage to present to the professional members an overview of their Section and their accomplishments. Representatives from each university spoke about their respective collegiate section covering topics such as chapter activities and meeting topics, results of past design competitions, community outreach, leadership development, and lessons learned over the past year. The professional members in attendance served as guest judges.

As the ballots were totaled the audience was treated to a presentation by John Schiessl, Vice President of Core Engineering at Generac Power Systems. **GENERAC** stepped up to the plate and hit a home run by participating as the **Named Corporate Sponsor** for this year's Student Night.

By the night's conclusion, MTU SAE Student Chapter was awarded top honors in the closest judging ever.

Results of this competition with grant totals are as follows:

1st Place: Michigan Tech University \$2,532.85

2nd Place: MSOE \$2,015.10

3rd Place: UW-Madison \$1,678.35

4th Place: Marquette University \$1,510.30

5th Place: UW-Milwaukee \$1,263.40

All of these amounts include a travel allowance from each school to the host school.

*Northern Michigan University did not present this year

*UW-Platteville Off Campus did not present this year

The Students Sections are able to apply these grants to improve their Student Sections or vehicle projects as they see fit. Remember that these grants are available through your *generosity at* and *participation in* SAE Milwaukee Section meetings and events, and the support and sponsorship of the **Named Corporate Sponsors** at this event and throughout the year. Please make it a point throughout the year to reach out to any of the students from these schools and congratulate them on their hard work!

SAE Milwaukee Section highlighted in SAE Updates – December and January!

During Student Night, we were honored to have the SAE editor, Patrick Ponticel along with our Section Representative, Abby Hartman. From our success with Student Night, they wrote up a nice article on the event, and then followed-up with one on Dale Wiza, serving in Career Development, especially at the Clean Snowmobile challenge.

If you haven't already, please read the last two "SAE Updates" e-zines, with our compliments to our Section with: Student Night...

<http://www.nxtbook.com/nxtbooks/sae/17UPD12/index.php#/6>

and Dale's Career Development...

<http://www.nxtbook.com/nxtbooks/sae/18UPD01/index.php?startid=Cover1#/20>

Clean Snowmobile Challenge – March 5-10

If you haven't experienced a Clean Snowmobile Challenge yet, please consider this year.
By request of engine manufacturers - 8 diesel sleds this year!

Many SAE members and guests attend this Collegiate Design Series event for just a couple of days or longer. You'll enjoy: student creative ideas and versatile engineering, competition, presentations, successes and challenges, mingle and mentor with them, take in some snowmobile riding, and/ or to serve as a judge (riding, reviewing of papers, etc.). See the schedule of events and more at <http://www.mtu.edu/snowmobile/>.

To judge papers, please fill out the judging form at <http://saecleansnowmobile.com/CreateAccount.aspx>.

If you can contribute to reviewing papers, respond with how many papers 4, 8, 12, 16, or 20.

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

Jay S. Meldrum, Sr.

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

***The Keweenaw peninsula has 168" of snow to date!**

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

SAE Board Member Spotlight

Negin Salami – Vice Chair of Math and Science Education/A World in Motion (AWIM)



Greetings! I joined the board in 2016 in order to help promote the Science, Technology, Engineering, and Math (STEM) activities in our community through the SAE – AWIM program. I am pleased to provide more information about my background and AWIM in this spotlight.

At a younger age, my idea of playing involved taking apart my toys with the belief in making a better one out of the pieces. This idea may resonate with many of us with a mutual childhood manifesto. My favorite game was making sizable objects out of duct tape by connecting

target points in a space (our house). I was changing the shape every hour due to the way a 9-year old could interpret the application of Einstein's relativity theory! My nascent passion for STEM resulted in a bachelor degree in Materials engineering – Nanotechnology and semiconductors. I traveled from my home city Tehran, Iran to Milwaukee in 2012 to pursue graduate studies. Right after earning a Master's degree in Materials engineering from UW – Milwaukee in 2014, I joined Johnson Controls, Power Solutions. In my current role, I lead the technical assessments for the OE lead acid battery "Request for Quote" activities in the Americas. I am also part of the leadership teams for JCI Women's Network and EMPACT sustainability business resource groups. Additionally, I serve on UW-Milwaukee Alumni Association board representing the engineering and applied science chapter. My dedication to promoting diversity and inclusion along with the STEM activities has inspired me to support local STEM – related organizations by participating on panels, giving speeches, co-hosting events, and establishing new collaborations between them.

Learning about the AWIM program while sharing my passion for participating in our corporate and community STEM activities created an opportunity for me to connect with the Milwaukee SAE board. I volunteered to help out and was warmly welcomed to join the board as the Vice Chair of Math and Science Education/AWIM. This opportunity has resulted in interacting with dedicated and outstanding board members in addition to getting to know a broad range of automotive manufacturing sites located in the Milwaukee area. Moreover, I have had a chance to promote the AWIM program directly through SAE as an excellent pipeline to introduce STEM activities in the area. AWIM is a K-8 teacher-administered, industry volunteer-assisted education solution. Benchmarked to the national standards, the AWIM program incorporates integrated STEM learning experiences through hands-on activities that reinforce classroom STEM learning. Many students enjoyed the experience of being part of their classroom engineering teams and building AWIM cars after they heard real – life stories shared by professional volunteers. So, if you would like to share the joy of having an engineering mindset with the kids too, connect with us and participate in one of our SAE-STEM volunteering activities.

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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