

SAE MILWAUKEE

An SAE International Section

Upcoming Events

Signicast

- March 23rd
- Hartford, WI
- Investment castings
- Tour & technical presentation

Clean Snow Challenge

- March 7-12
- Houghton, MI
- Greener and cleaner snowmobile competition

Ariens

- April 20th
- Leading outdoor power equipment company
- Tour & technical presentation

Future events

- May – FCA Belvidere assembly plant
- June 4 – SAE section golf outing
- June 18-19 – June Sprints, Road America
- July 13 – SAE Milwaukee Section members' car/motorcycle show

March 2016 SAE Newsletter

March Event:



SIGNICAST
INVESTMENT CASTINGS

March 23rd

1800 Innovation Way,
Hartford, WI

About the Event

What to Expect at Signicast Investment Castings?

Signicast Investment Castings has satisfied customers for over 50 years! Our formula for success is no secret – it takes commitment to satisfy customers 24 hours a day, seven days a week.

Providing the Total Cost Equation allows our customers/partners to grow with us. We provide what others cannot:

- The Highest Level of Quality
- Technologically Advanced Processes and People
- True Just-in-Time Delivery --- Every Time
- Unprecedented Lead-Times for New Product Launches
- And, that's not all ... it's not just what we offer ... ***it's what our customers want!***

We will talk about how we go to market and how everyone can learn our secret to success. Being the world leader of precision investment castings we need to be agile, flexible and ready to meet all of our customer needs – and not all customer needs are created equal. We base our growth on helping customers with the Total Cost Equation – it is a partnership.

It is not easy to define a vision, learn what our partners really want, institute effective systems and make satisfying our customers a constant feature – **this is not just another tour.** Signicast is always looking for the next generation of how do we do it better, faster and smarter. You will walk away from Signicast with a new look at Manufacturing – and take away the excitement we offer!



Tour Signicast – be prepared to be wowed!

Our Speaker; Our Tour

Christopher Kovach, Vice President of Engineering will share a high level view of Signicast – with the technical presentation being “the magic” happening in the Modules during your tour. Our tour will make you understand how Signicast stays #1 in the investment castings industry. Christopher and his engineering staff will guide you through a maze of technologically advanced processes and people – our tour guides are hands-on engineers that are excited about what they do at Signicast.

Touring our Hartford Modules – lets you in on our **secret for success.** Satisfy our customers by -- Safely, delivering a quality product, on time, at a competitive price!

What else would you expect? – But the best!

Event Agenda

Registration	4:45pm-5:15pm
Tours	5:15pm-7:00pm
Dinner	7:00pm-7:45pm
Q&A session.....	7:45pm

Registration Fees

SAE Members	\$20
Retirees	\$15
Guests/Non-members.....	\$25
Students	\$10

Registration

Registration Deadline: March 16th

Maximum Attendance: 80

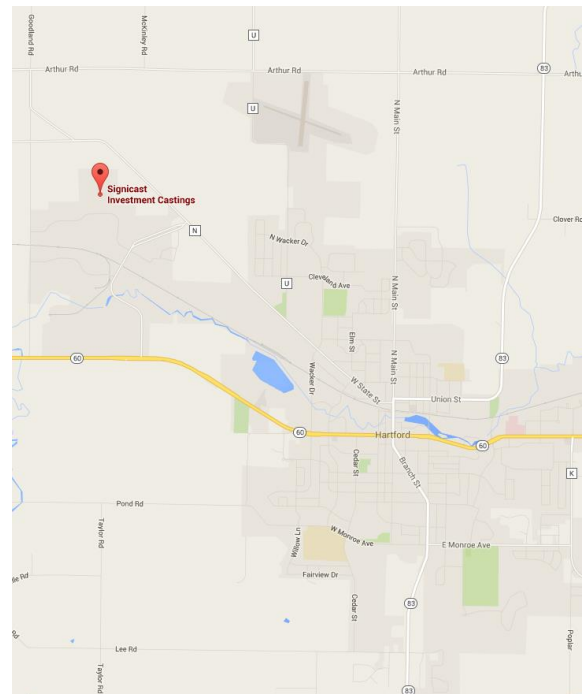
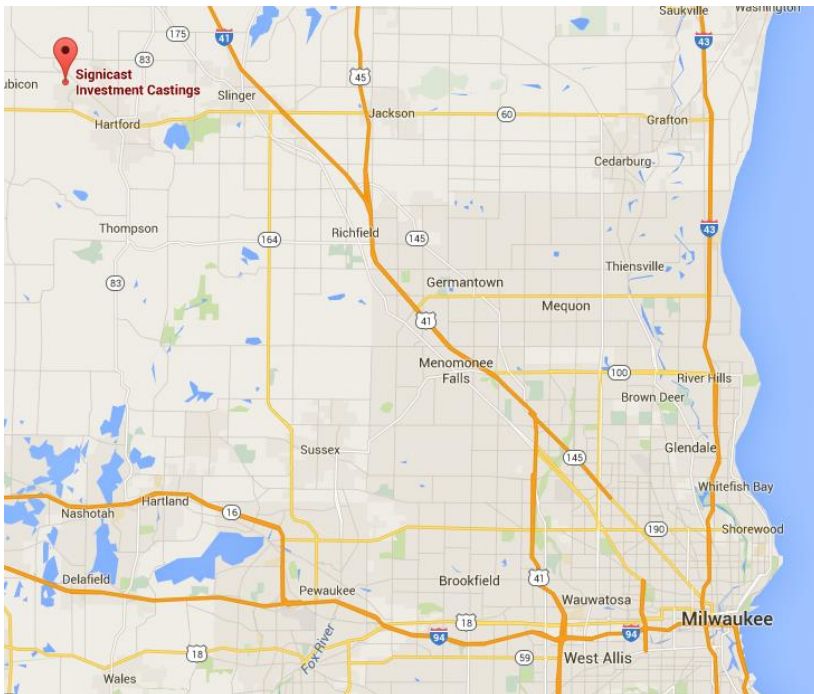
Ways to Register:

- Online with a charge card via www.milwaukeesae.com
- By phone: Van Phifer – (414) 465-8261
- By email: Van Phifer – VanPhifer@gmail.com

Please note: You must wear **closed-toed shoes and safety glasses** for the tour. If you have your own safety glasses please feel free to bring them along. Cell phones and cameras must remain off and put away during your visit – **absolutely no photographs**. For your own safety, please **do not touch anything** in the plant, as materials could be hot or sharp.

Registration required – no walk-ins allowed

Location: 1800 Innovation Way, Hartford, WI



Clean Snowmobile Challenge

Please join us at our Milwaukee Section meeting on Thursday, March 10th, at Michigan Tech, as we look forward to a presentation from CSC's newest sponsor – Faurecia.

Faurecia is the 6th largest international automotive parts manufacturer in the world; in 2013 it was #1 for vehicle interiors and emission control technology. One in four automobiles is equipped by Faurecia. They design and manufacture: emission control technologies, seating and interior systems, exterior modules and decorative aspects vehicles.

We'd also like to thank MacLean-Fogg, with their continued sponsorship, and prestigious MacLean-Fogg Cup, that is awarded to the overall Gasoline Division winner. Last year, the UW - Madison won it.

MFCS management representatives were on hand in Madison on March 26th. to present the team with a \$1,000 award and their name on The MacLean-Fogg Cup.

If you are interested in attending the 2016 Clean Snowmobile Challenge, Contact Dale Wiza, dale@engineeringplacements.com, 414-807-9663 to learn more or rideshare. (The UP already has over 116" of snow!)

Schedule of Events

Monday, March 7			
Start Time	End Time	Activity	Meeting Place
8:00 AM	7:00 PM	Teams Arrive, Registration opens	
8:00 AM	7:00 PM	Turn in Snowmobile Description Form IC and ZE Final Technical Inspections	KRC/T3
5:30 PM	6:00 PM	Fire Safety Presentation	KRC/T3
6:00 PM	8:00 PM	"Early Volunteers" Reception	<i>Joey's Seafood, Houghton</i>
Shop open until Midnight		<i>Pizza for students in the shop</i>	
Tuesday, March 8			
Start Time	End Time	Activity	Meeting Place
7:30 AM		Judges Meeting Gage Products IC Fueling	KRC/T3
10:00 AM		*Grand Opening Event* NSF Electric Sled Range Test Endurance Run to Copper Harbor	KRC/T3
3:00 PM	5:00 PM	<i>Late Lunch and discussion about Future CSC competitions</i>	<i>Shelden Grill</i>
Return to KRC - Shop open 5pm until Midnight			
Wednesday, March 9			
Start Time	End Time	Activity	Meeting Place
7:30 AM		Presentation Judges Meeting	KRC Bldg 69
8:00 AM	5:00 PM	IC Design Presentations	KRC Bldg 69
8:00 AM	5:00 PM	AVL Lab Emissions Event Sensors Inc. In-Service Emissions	T5
10:00 AM	11:00 AM	Technical Presentation/Chalk Talk TBD	KRC/T3
8:00 AM	5:00 PM	Make-Up Endurance Miles	KRC/T3
Noon		<i>Lunch for the Presentation Judges Courtesy of Michigan Tech Career Services</i>	KRC Bldg 69
Noon		<i>Lunch in the shop Cincinnati Chili Courtesy of The PCB Group</i>	KRC/T3
Student Registration ends at Noon			
1:00 PM	3:00 PM	Electric Sled Draw Bar Pull	KRC/T3
4:00 PM	6:00 PM	Networking with Industry	Copper Country Mall

6:00 PM	8:00 PM	*Snowmobile Public Display* <i>Light refreshments will be served</i> <i>Courtesy of the Michigan Tech Graduate School</i>	Copper Country Mall
Shop open until Midnight			Outside KRC/T3
Thursday, March 10			
Start Time	End Time	Activity	Meeting Place
8:00 AM	Noon	PCB and HEAD acoustics Noise Event	KRC/T3
8:30 AM	5:00 PM	Polaris Subjective Handling Event	KRC/T3
8:30 AM	5:00 PM	Emissions Events (continued)	KRC/T3
10:00 AM	11:00 AM	Technical Presentation/Chalk Talk EMITTEC - "Catalyst Technology"	KRC/T3
Noon		<i>Pasty Lunch</i>	KRC/T3
1:00 PM	4:00 PM	ZE Design Presentations	KRC Bldg 69
5:00 PM	7:30 PM	SAE Milwaukee Section Meeting Presentation by Jack Phillion, Director or Corporate Quality of MacLean-Fogg	
Announcements for Special Awards Finalists Mandatory Attendance			DOW 641
<i>Dinner provided for registered students and Volunteers</i> <i>Provided by Michigan Tech MEEM Department</i>			
Shop open until Midnight			
Friday, March 11			
Start Time	End Time	Activity	Meeting Place
7:30 AM		Judges Meeting	KRC/T3
9:00 AM	5:00 PM	Emissions Events (continued)	KRC/T5
10:00 AM	11:00 AM	Technical Presentation Sound Quality HEAD acoustics, Inc.	KRC/T3
Noon		<i>Beef Bar-B-Que</i> <i>courtesy of the Iowa Snowmobile Association</i>	KRC/T3
1:00 PM	6:00 PM	Open time to enjoy the Keweenaw Mt. Ripley Ski Hill, Dollar Bay Motorsports Dan's Polaris, Houghton Powersports, M&M Powersports	
5:00 PM	6:00 PM	VIP Tours of MEEM Building MEEM	
7:00 PM	8:00 PM	VIP/Volunteer Reception	<i>Habeneros, Hancock</i>
Shop open until Midnight			<i>Students dinner on your own</i>
Saturday, March 12			
Start Time	End Time	Activity	Meeting Place
8:00 AM	8:30 AM	NGK/NTK Cold Start Event	Outside KRC/T3
8:30 AM	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* *ZE Acceleration + Load Test*	KRC Test Course
Noon		Judges Meeting to Review Scoring and Penalties	KRC T1
6:30 PM		*Awards Banquet*	<i>MUB Ballroom</i>
<i>Banquet Meals for the students courtesy of the PCB Group</i>			
* Public Viewing Opportunities*			

Special Thanks

We would like to thank Midwest Composite for sponsoring the February event. Midwest Composite has generously donated the funds to cover our costs for the event which they hosted.



2016 SAE Golf Outing

Golf Outing – “Nine and Dine at the Edgewater”

What – Nine Holes of Golf, play Best Ball.

Where – Edgewater Golf Club/The Bunkers Restaurant, Grafton, 1726 Cedar Creek Rd, Grafton WI 53024

When – Saturday, June 4, 2:30PM Tee Time, followed with optional dinner in the club house

Who – SAE Milwaukee section members/spouses/friends/family

Pricing - \$25 for 9 holes of Golf, optional group dinner. Meal costs from \$16 to \$22.

Dinner – Sandwiches/Dinner range from \$8-\$22, plus refreshments and 18% gratuity. Delicious Prime Rib is their Saturday Night Specialty.

Special Prizes for: Longest Putt on #9, Closest to the Pin on #5, Closest in Two on #8, Longest Drive for Men on #1, Longest Drive for Women on #6.

“Prizes” for everyone!



SAE Milwaukee Board Member Spotlight

Mike Fricke – Newsletter Editor

Greetings! My name is Mike Fricke and I serve on the SAE Milwaukee board as the Newsletter Editor. My responsibilities as Newsletter Editor include assembling, proofing, and writing information for our monthly newsletters and informational postcards. In addition, I am responsible for ensuring distribution of the newsletters and postcards.



I'm a 2014 graduate of MSOE, holding a bachelor's degree in mechanical engineering. I decided to pursue engineering based on my interest in using mathematical and scientific concepts to solve problems and create products. My first exposure to SAE occurred when I became active in MSOE's collegiate SAE chapter as a sophomore. As a member of SAE at MSOE, I joined the school's Supermileage Vehicle Team. As part of the Supermileage team, I mainly worked on the vehicle's steering, braking, and suspension systems, while also helping with the body and engine. In addition to Supermileage, I was involved with MSOE's SAE chapter on the organizational level for two years as the secretary and vice president.

I'm currently employed at HUSCO Automotive in Waukesha, where I design and develop actuators for variable valve timing systems. I began my career at HUSCO with an internship and continued full-time after graduation. Our customers include Ford, GM, FCA, Subaru, and other OEMs and tier-1 automotive suppliers. Most of our products relate to improvements in fuel economy, which has been a significant area of growth in the automotive industry lately.

I enjoy staying up-to-date with other parts of the automotive industry through SAE. It's always great to be able to tour other companies' facilities, listen to the presentations, and talk to SAE members. Outside of engineering, I enjoy mountain biking, hiking, skiing, kayaking, and carpentry.

Milwaukee Section 2015-2016 Governing Board

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Mike Fricke—HUSCO Automotive
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A Letter from the Chairman

Greetings Milwaukee SAE Section Members and Friends!

I hope this month's newsletter finds you well. February has drawn to a close with an occasional warm day here and there, a lot of us may already have Spring on our minds. If you are looking for one last dose of snow and winter fun, consider heading up the SAE Clean Snow Challenge on March 7th through the 12th at the Keweenaw Research Center in Houghton Michigan. There will be lots of snow, student teams from around the world, and plenty of great competition. It's a great way to enjoy the last of winter before we head into spring.

We had a good turnout for our event at Midwest Composites and got to see some of the latest in rapid prototyping technology first hand. If you missed this event, please check our webpage or Facebook page for pictures.

Our March Event will be held at Signicast in Hartford. Signicast is a world-class supplier of investment cast metal components and this month we get to see the world of investment casting up close and personal. Please be sure to join us as this will be an event you do not want to miss.

The Milwaukee SAE Section is continuing our Shadow and STEM/AWIM initiatives. If you are contemplating becoming more involved and think you might like a board position next year, now is a great time to shadow a board member and see what helping run our section is all about. Elections for the Governing Board happen at the end of May and we have begun the process of looking for candidates to fill some current positions as well as a few new positions we'd like to add in the upcoming year. Additionally, we are always looking for people to become involved and help bring engineering to grade school and high school kids. Please see any board member at an event or contact any of us directly to see how you can become involved.

I look forward to seeing you all at the March 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**

Section Sponsors



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