



# Milwaukee Section Newsletter

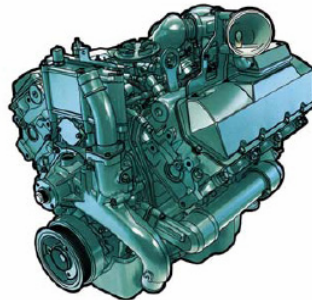
May 2010

[www.milwaukeesae.com](http://www.milwaukeesae.com)

## **FAMILY NIGHT**

Section Meeting at:

**HILLER FORD**  
expect more



Franklin, WI  
Thursday May 6<sup>th</sup>, 2010

*Racing Theme Car Show /  
SAE's "A World In Motion" Demonstration for Kids  
/ Ford Power Stroke Diesel Training  
& door prizes!*

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## ***A little information about our host, Hiller Ford, Inc...***

Ken Hiller opened the doors to Hiller Ford on May 1, 1954. Today, Hiller Ford is one of the largest Ford dealerships in the state of Wisconsin, and a winner of Ford's prestigious President's Award for the 9th time. No other dealership our size in Wisconsin has ever won it once! "I'd like to say it has been a privilege to serve our fine customers over the past 56 years. We have been very fortunate to be a part of the great community we serve." - Jay Hiller (Pres.) *Learn more at [www.hillerford.com](http://www.hillerford.com) (414)-425-1000*

## **Ford Power Stroke Diesel Training, by instructor Anthony Palladino, 5:30 pm:**

- **Fundamentals and maintenance training of all engine components and systems.**
  - **Ultra Low Sulfur Diesel specs.**
  - **Discuss value of Motrocraft remanufactured products.**
  - **Diesel engine parts and options**
- 

## **Racing:**

***We are privileged to get up-close with a variety of race cars, through our friends at Slinger Speedway and Road America , along with some exotic street racers!***

**Slinger Speedway**, located in Slinger, WI, features six divisions of racing on a weekly basis. It showcases Super Late Models, Late Models, Sportsman, Thunderstock, Slinger Bees, and Figure 8 cars on Sunday nights from May until September. The Super Late Models, Late Models, and Sportsman divisions all feature cars with specially built chasis and a wider variety of modifications that are allowed under the rules than the Thunderstock and Slinger Bee divisions. Thunderstock and Slinger Bees are the stock classes of the track. The rules allow few modifications other than for safety, especially in the Slinger Bee division.

"We look to have one of our Super Late Models, one from Sportsman, and one from the Thunderstock division on display at the SAE Family Night at Hiller Ford - providing that nothing happens to them on the track, on May 1<sup>st</sup> or 2<sup>nd</sup>!" - Nicole (Slinger PR)





**Road America** is a legendary fixture in the racing community. Racers relish the circuit's challenging turns, curves and high-speed straights. The track follows the sweeping, rolling hills of the glacially-formed terrain providing drivers and riders with dramatic elevation changes. Many world champions have tested their skills here and return yearly to set new records. SAE Milwaukee Section is proud to have partnered with them!



***Here's some of our featured vehicles for display on May 6th!***

- \* Jerry Ritzow will have his Saleen S7 (650 h.p. street-legal, supercar), along with his Ford GT.
- \* Roger Ritzow will bring his (new) '56 Chrysler 300 B (850 h.p. of "radical ride"!)
- \* Tony Brodzeller's (of Ken Cook) 1999 Saleen Mustang S281-SC Speedster



# SAE's "A World In Motion" (AWIM) Helping Today's Students Become Tomorrow's Engineers and Scientists!

SAE International's 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 12. Benchmarked to the national standards, AWIM incorporates the laws of physics, motion, flight and electronics into age-appropriate hands on activities that reinforce classroom STEM curriculum.

Through the support of corporations, foundations, volunteers, SAE members and the SAE Foundation, AWIM opens a window of possibilities for students as they discover the exciting application of science principles and learn about rewarding engineering, science and technical careers. The students learn to work as a team with their classmates and apply creative problem solving during the activities.

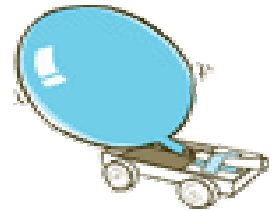
The A World In Motion program builds bridges between corporations and classrooms by giving teachers, volunteers, and students the opportunity to work together and learn from each other.

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 Challenge kits. Volunteering for AWIM is a great way to serve as a steward for your chosen profession.

***\* Along with our car racing theme, we will be demonstrating and learning with the car kits, with guidance of teachers from the Franklin School District:***

- ***Jet Toy Car (for grades 4<sup>th</sup>-6<sup>th</sup>)***

Students make balloon-powered toy cars that meet specific performance criteria like; travels far, carries weight, or goes fast. Jet propulsion, friction, air resistance and design are the core scientific concepts students explore in this challenge.



- ***Motorized Toy Car (for grades 7<sup>th</sup>-8<sup>th</sup>)***

Students develop new designs for electric gear driven toys. The students are involved in writing proposals, drawing sketches, and working with models to develop a plan to meet a specific set of design requirements. Force and friction, simple machines, levers and gears, torque and design are the core scientific concepts covered in this challenge.

- ***Fuel Cell (for grades 7<sup>th</sup>-8<sup>th</sup>)***

This design presents students with the opportunity to investigate a new and developing technology; the fuel cell. Over the course of the curriculum, a variety of activities introduce students to the development and use of fuel cells, types of fuel cells, and hands-on experiments with a PEM (proton exchange membrane) fuel cell to produce electricity to power an electric motor.

### ***Some AWIM facts: Since 1990:***

- Over 4 million students have participated in AWIM program in all 50 U.S. states and 10 of 13 Canadian provinces and territories. AWIM is now in India as well.
- More than 65,000 activity kits have been provided to teachers and volunteers
- Over 20,000 engineers, scientists and technology professionals have volunteered in partnership with the A World In Motion program





## **Additional kits available:**

### **Elementary (Grades 4-6):**

**Skimmer** - Students construct paper sailboats and test the effect of different sail shapes, sizes, and construction methods to meet specific performance criteria. Students learn about friction, forces, the effect of surface area and design in this challenge.

**Electricity & Electronics** - This challenge provides teachers with activities that focus on principles of electronics by providing teachers with hands-on experiments involving static electricity, batteries and capacitors. (Under Revision)

### **Middle School (Grades 7-8):**

**Glider** - Students explore the relationship between force and motion and the effects of weight and lift on a glider. Students learn the relationships between data analysis and variable manipulations, and the importance of understanding consumer demands. The glider activity culminates in a book-signing event where each design team presents its prototype and the class presents its manuscripts to Mobility Press “representatives” and members of the local community.

**Electricity & Electronics** - This challenge provides teachers with activities that focus on principles of electronics by providing teachers with hands-on experiments involving circuits, magnetism and electronics. (Under Revision)

### **High School:**

**Electricity & Electronics** - The Electricity & Electronics kit provides teachers with activities that guide student teams through experiments involving transistors and semiconductors and analog and digital integrated circuits. (Under Revision)

### ***The AWIM program is made possible from donations made through the SAE Foundation -***

We can help you fulfill your corporate philanthropy and community relations goals by providing you with the opportunity to fund programs which provide enriching STEM education, and provide opportunities for community outreach through volunteerism in SAE education programs. By working in partnership with the SAE Foundation, you can tailor your resources to fulfill your goals while also supporting education that will inspire the next generation of innovators. Learn more by contacting the SAE Foundation at (724) 772-8515.

**To learn more about this award-winning program, or for assistance in your search for an industry volunteer, contact: SAE International 1-800-457-2946, email: [awim@sae.org](mailto:awim@sae.org) · [www.awim.org](http://www.awim.org)**

**--- EVENT AGENDA ---**

**Open: 4:00 pm**  
**Registration: 4:30 pm**  
**Dinner: 5:00 pm**  
**Diesel Training: 5:30 pm**  
**6455 South 108<sup>th</sup> Street**  
**Franklin, WI 53132**

**EVENT PRICES:**

<b>SAE Members / spouses:</b>	<b>\$10.00</b>
<b>Retirees:</b>	<b>\$10.00</b>
<b>Guests / Non-members:</b>	<b>\$10.00</b>
<b>SAE Students w/ID</b>	<b>\$5.00</b>
<b>Kids - 12<sup>th</sup> grade and under</b>	<b>FREE</b>

**--- MENU ---**

*Pizza, salad, garlic bread, cookies, etc.*

**Registration:**

Only pre-payments by **charge card** can be completed online via <http://www.milwaukeeesae.com>

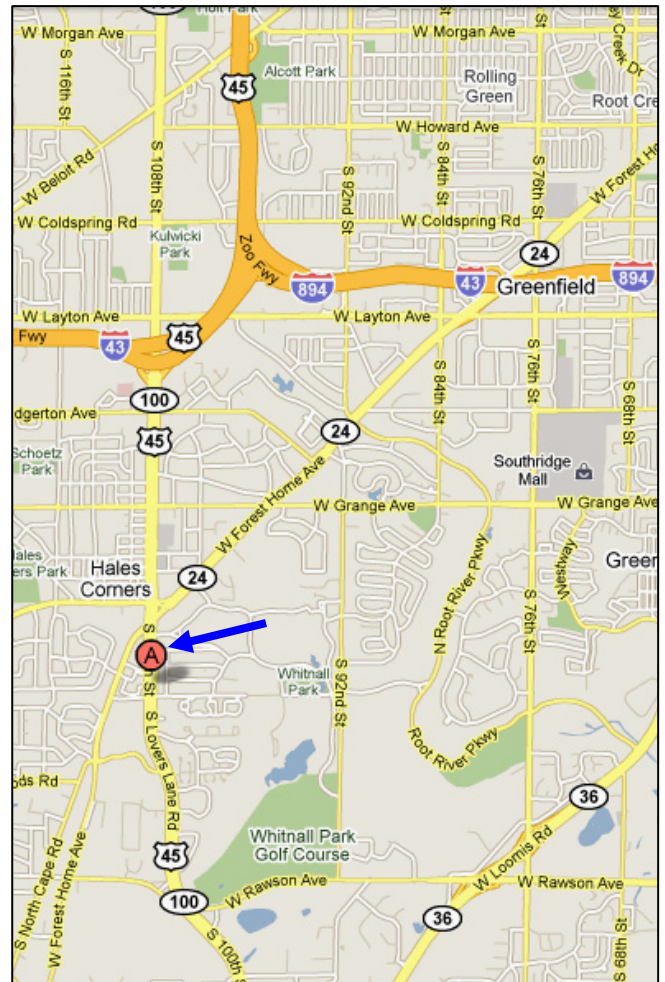
Retirees, students and members without web access may register by phone on the SAE Registration Coordinator – Jim Ryan (262) 636-1634.

**Registration deadline: Tuesday, May 3<sup>rd</sup> 12:00 p.m.**

***Location of Hiller Ford, Inc.:***

**6455 S. 108<sup>th</sup>. St.**  
**(Hwy. 100, just south of Forest Home Ave.)**  
**Franklin, WI**  
**414-425-1000**

**(see map at right)**



## *Future SAE-Milwaukee Programs:*

### ***June 26<sup>th</sup> and 27<sup>th</sup> - June Sprints at ROAD AMERICA!***

Join your SAE Members at this great race event. The June Sprints races involve a multitude of car styles and classes; open wheel, stock car, historic and modified custom. Over 30 classes of cars will compete, separated into groups for the purpose of, qualifying and road racing. Qualifying occurs each morning with racing in the afternoon.

Through a special arrangement with our friends at Road America, we can offer these (normally \$35.00/day) tickets for just \$5.00 for our SAE members. Invite a non-member guest along for just \$10.00 per day.

While this event runs Friday – Saturday – Sunday, SAE has blocks of tickets for Saturday, June 26 or Sunday June 27. Choose any day or both at the special ticket pricing. For those wishing to attend on Friday, you must pay the regular fee of \$35.00 per ticket at the gate.

**Pick up your tickets at Gate 3 “Will-Call” on the day of the event.** Gates Open – starting at 7AM.

**Your Program Manager for this event is Doug Kautzer. He can be reached at Briggs & Stratton at [Kautzer.Douglas@Basco.com](mailto:Kautzer.Douglas@Basco.com) (ph: 414-259-5733; cell: 414-788-7443)**

**\* Order your tickets on-line ONLY through the SAE website: [www.milwaukeeesae.com](http://www.milwaukeeesae.com).**

**Bring your Family** - Children 12 and under are free with a paying adult.

**SAE Hospitality Tent** – Stop for a cool bottle of water or soda at our hospitality tent. Watch for the familiar blue and white “SAE” banners. We will be located at turn 3 of the race course. Our hospitality tent will be within sight of the Corvette Coral, a popular site at the corner of turn 3. We will staff the tent from 10AM to 2PM each day.

**Camping** – For those interested, camping registration is at Gate 4 at the south end of the track off County Road “J”.

**Spectator Karting** – Treat family members, age 13 or older to spectator karting at the Briggs & Stratton Motorplex. This occurs from 10AM to 6PM at a price of \$20.00 per participant.

Website: [www.roadamerica.com](http://www.roadamerica.com) for more details.

Gates Open – starting at 7AM.

# Milwaukee Section 2010-2011 Governing Board

## CHAIRMAN:

James Ryan  
Modine Manufacturing Company  
email: [j.w.ryan@na.modine.com](mailto:j.w.ryan@na.modine.com)  
Work: (262) 636-1634

## VICE CHAIRMAN:

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Strattec Security Corporation  
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## SECRETARY:

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## TREASURER:

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## PAST CHAIRMAN:

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Work: (262) 636-1362

## AWIM / EDUCATION: OPEN POSITION

## WEBMASTER:

Cara Kazda  
Cummins Filtration  
email: [cara.r.kazda@cummins.com](mailto:cara.r.kazda@cummins.com)

## MEMBERSHIP/ COMPANY REP:

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## COLLEGIATE RELATIONS:

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## CAREER DEVELOPMENT

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email: [dale@engineeringplacements.com](mailto:dale@engineeringplacements.com)  
Cell: 414-807-9663

## SENIOR ADVISORS

Amy Adams  
Kohler – Engine Division

Kurt Person  
HB Performance Systems

## STUDENT REPRESENTATIVE

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## AT-LARGE

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Work: 262-939-4332

## Dear Members and Section Friends,

Many thanks to Kohler Company for hosting a fantastic April section meeting! It was our best attended event this year with over 130 participants. They generously hosted the elaborate dinner and presentation at the American Club. Visit our website ([www.milwaukeeae.com](http://www.milwaukeeae.com)) for pictures from the event.

I encourage you to join us on May 6<sup>th</sup> for the Family Night meeting being coordinated by board members Dale Wiza and Ken Traub. Enjoy looking at the exotic cars and entertain the kids with the hands-on AWIM activities.

Don't forget to buy your discounted tickets for the June Sprint races at Road America. Log on to the event registration online to purchase your tickets. We will also be sending out an invitation to attend a *spanferkel* (pig roast) at a fellow member's home located just 1 mile from the track. Look for the E-mail notification coming soon.

Next year's program lineup is beginning to solidify. We will start off with P&H Mining in September, followed by Briggs and Stratton in October. Our Student Night meeting will be held in November at UW-Milwaukee. Please contact a board member if you would like to assist with program planning, or would like to host a meeting at your company.

I'd like to thank our sponsors (listed below) for their continued support. Their generous donations allow us to provide you with the best service we can offer.

And finally, enjoy your summer! I look forward to seeing you at our September kickoff event at P&H mining.

Best regards,

Jim Ryan  
Chairman – Milwaukee Section





Meeting Sponsorship



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