



# Milwaukee Section Newsletter

March 2010

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



*"CASE Study"*

**Hartland, WI**

**Wednesday March 24<sup>th</sup>, 2010**

Printing and distribution of this newsletter is sponsored by **Ken Cook Co.**

## *March 24<sup>th</sup> Midwest Composite Technologies (Hartland, WI)*

The staff at Midwest Composite Technologies is opening their doors to SAE members and guests. Their facility tour will showcase a diverse portfolio of manufacturing processes and capabilities for proof of concept prototype to short run and low volume production. The tour is expected to take more than 1 hour. See many processes in action and understand their capabilities.



Following the tour and dinner, Helmut Keidl and his staff will outline the process to make scale models through the full size "Case Study".



Over the past 25 years Midwest Composite Technologies, Inc. is home to some of the latest manufacturing technology available including: Rapid Prototyping, CNC Machining Centers, Injection Molding Machinery, RIM Presses and Design Software. Their customer base includes leaders in the medical, automotive, agricultural, marine, electrical and recreational industries.

Their in-house tool design, molding, manufacturing capabilities, can offer internal control of a project's

requirements from beginning to end or anywhere in between. They can streamline a manufacturing process and deliver high quality, cost competitive, finished products with minimal lead times. They offer custom solutions varying from rapid prototyping, trade show or concept models, tooling or low to mid-volume production.

The Midwest spirit of innovation, and commitment to elevating standards for quality and service has contributed to progressive growth.



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### Biography: **Helmut Keidl**

Helmut is a German citizen who immigrated in the early 60's when he was 11 years old. His parents, a janitor and cleaning lady, decide to move to Milwaukee. With a great deal of drive he started with a paper route which profited enough to buy a brand new 1967 Camaro. He graduated from John Marshall H.S. He later worked for Badger Patterns, Excalibur Automobiles, and Star Patterns which gave him the knowledge to begin his own company in 1975. He started in his garage on 57<sup>th</sup> and North Avenue; plastic stains can still be seen in the alley in front of the garage. He moved to the Hartland area in 1978 and moved to the current building 1 ½ years ago.

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

<b>Tour:</b>	<b>4:30 pm</b>
<b>Registration:</b>	<b>4:30 pm</b>
<b>Dinner:</b>	<b>6:00 pm</b>
<b>Presentation:</b>	<b>6:45 pm – 7:30 pm</b>

**- - - DINNER - - -**

**DINNER PRICES:**

<b>SAE Members / spouses:</b>	<b>\$20.00</b>
<b>Retirees:</b>	<b>\$15.00</b>
<b>Guests / Non-members:</b>	<b>\$25.00</b>
<b>SAE Students w/ID</b>	<b>\$10.00</b>

**- - - MENU - - -**

**Buffet: Chicken Marsala, Beef Bourguignon, Garlic Mashed Potatoes, Green Bean Casserole, Salad**  
**Desert: Fruit & Berry Parfait**  
**Beverage Table: Coffee – Decaf Coffee, Hot Tea**

**Registration:**

Only pre-payments made with a **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. **MAX ATTENDANCE for this event is 75.**

**[Registration deadline: Monday, March 22, 12:00 p.m.](#)**

***Directions to Midwest Composite Technologies***

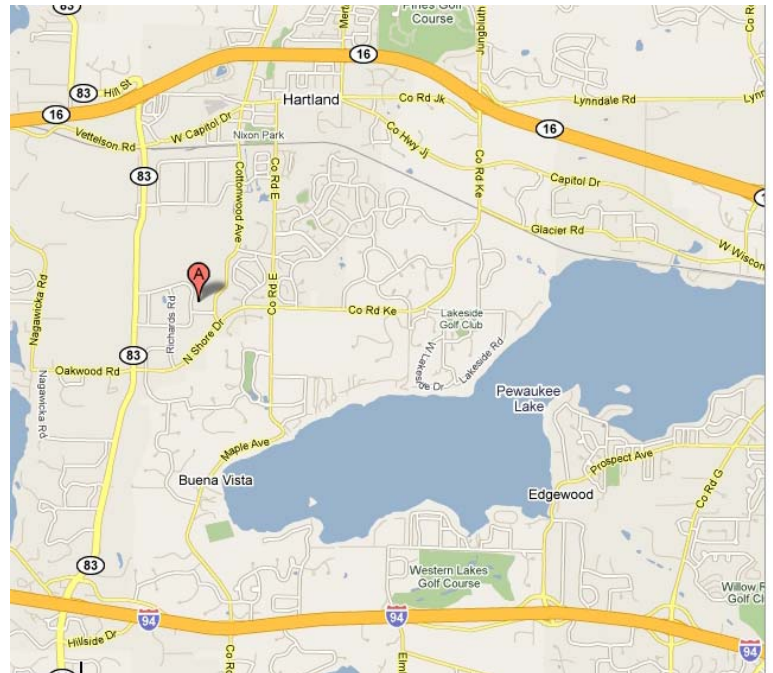
1050 Walnut Ridge Drive Hartland, WI 53029

From Milwaukee:

- I-94 West to Hy. 83 North
- North 2.3 Miles to Walnut Ridge Drive
- Right (east) on Walnut Ridge Drive 0.5 miles

From Madison:

- I-94 East to Hy. 83 North
- North 2.3 Miles to Walnut Ridge Drive
- Right (east) on Walnut Ridge Drive 0.5 miles



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## *Recap of February Meeting:*

Our February meeting shared two innovative and different companies and presentations, along with a tour from Friction Stir Link. The tour and demonstration of the friction stir process offers opportunity for manufacturers and fabricators to create a weld in aluminum that is more consistent, cleaner and stronger than other any other method, and the only process to satisfy the Navy's demands for the their new Littoral Combat Ships, featuring the stealth design. The presentation by John Hinrich, owner of Friction Stir Link and Bruce Halverson, QA Mgr. of Marinette Marine was an informative compliment to how well they have pushed this technology forward together.

Tom Dougherty (Pres. of Monloith Engines) then shared his design, features and challenges of his new opposed-piston engine. Tom has invested many years to get to these prototypes, has now successfully been awarded necessary patents, and welcomed SAE Members to come along-side to mechanically help and improve his efforts. We want to thank and cheer-on these two Section companies!

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## *Future SAE-Milwaukee Programs:*

### *March 15<sup>th</sup>-20<sup>th</sup> Clean Snowmobile Challenge (Houghton, MI)*

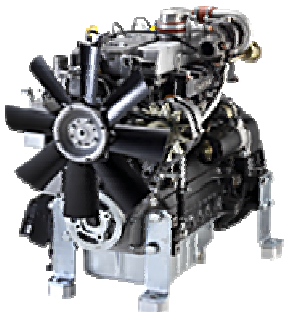


The SAE International Clean Snowmobile Challenge (CSC) is an engineering design competition for college and university student members that challenge engineering students to reengineer an existing snowmobile to reduce emissions and noise. Their modified snowmobiles will compete in a variety of events including: emissions, noise, fuel economy/endurance, acceleration, handling, static display, cold start and design.

Here is a link of the new CSC video: <http://vimeo.com/8863956>, or for the event schedule: [http://www.mtukrc.org/documents/CSC\\_2010\\_Schedule\\_of\\_Events.pdf](http://www.mtukrc.org/documents/CSC_2010_Schedule_of_Events.pdf)

For more information, or if you're interested in car-pooling with some members, please contact Dale Wiza, [dale@engineeringplacements.com](mailto:dale@engineeringplacements.com), or 414-807-9663.

## *April 21<sup>st</sup> Kohler Engine*



Developments are underway to bring the SAE Milwaukee section to Kohler Engine for a presentation and tour of their facility. This is a great opportunity to learn about one of Wisconsin's engine manufacturers. More details will be shared in the April newsletter.

# Milwaukee Section 2010-2011 Governing Board

## **CHAIRMAN:**

James Ryan  
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## **TREASURER:**

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## **AWIM / EDUCATION: OPEN POSITION**

## **WEBMASTER:**

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## **SENIOR ADVISOR**

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Kurt Person  
HB Performance Systems

## **STUDENT REPRESENTATIVE**

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Work: 262-939-4332

## **Dear Members and Section Friends,**

The snow is melting fast this time of year! Don't miss your chance to participate in the clean snowmobile challenge (CSC) competition March 15<sup>th</sup> – 20<sup>th</sup> in Houghton, MI. Find out more information on the CSC by visiting <http://students.sae.org/competitions/snowmobile/>.

The May family night section meeting is scheduled for May 20<sup>th</sup> at Hiller Ford in Franklin, WI. The meeting will have a race theme and we are looking for *your* vehicles to proudly display. Please contact Dale Wiza (414-807-9663) if you would like to bring a vehicle.

The MSOE student chapter is heading to the annual SAE Detroit Section Student Exhibit Competition to represent their new Formula Hybrid Team. The Milwaukee Section will be sponsoring their journey to help their chapter activities proliferate. The MSOE chapter will provide a summary of their experience during the May Section meeting.

This coming month, the nomination committee will be presenting the slate of officers for this coming year. We are always looking for leadership and contributing talents. We are currently seeking a replacement Treasurer and Secretary positions. You will be mentored for any position you choose, plenty of support is waiting for you!

I thank you for your continued support of the SAE Milwaukee Section. Your participation at Section meetings valued and appreciated. Please send me any comments/ideas you have that can improve Milwaukee Section for everyone.

Best regards,

Jim Ryan  
Chairman – Milwaukee Section

## Job Posting



### **Mequon, WI**

**Job Description: Test Engineer HB Performance Systems Inc**

**General Summary:** Plans, coordinates, implements, and maintains testing processes, methods, systems, controls and fixtures for mechanical and/or electromechanical products and systems. Conducts lab and field testing and documents, analyzes, and reports testing data. Responsible for designing new testing fixtures and controls for new or existing product, as well as assisting Product Engineers. May specialize in area of testing and design functions based on type of product.

Details regarding responsibilities, and requirements can be found at the HB Performance Inc Website [www.hbpsi.com](http://www.hbpsi.com) by navigating the website to: Employment Tab > Career Opportunities link

Qualified candidates can apply online



### Meeting Sponsorship



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