



Milwaukee Section Newsletter

May 2009

www.milwaukee.sae.org

Milwaukee Section Fly-In at Wisconsin Aviation May 21, 2009

— Watertown Airport “RYV” —

Plus “When Lightning Strikes” Presentation



Milwaukee Section Family Night – Cirrus Aircraft, Plane Rides*, Homebuilts and Aircraft Displays

Event Presentation:



Jeff Baum of Wisconsin Aviation will be making presentations “When Lightning Strikes” and “Composite Aircraft Repair Certification”.

Wisconsin Aviation recently completed the repair and restoration of (2) aircraft that were hit by lightning strikes. One of the aircraft is an aluminum airframe twin engine Cessna 414A and the other is a composite airframe single engine Cirrus SR-22. The nature of the lightning strikes and impact upon each of the aircraft was unique. Fortunately, no one was hurt during either of the strikes.

Jeff will go over the effects of a lightning strike to avionics, antenna, structural mounts, control surfaces, engines, propellers, landing gear and the methods and procedures for inspection, assessment and repair.

Event Attractions:

Wisconsin Aviation at Watertown Airport is opening its doors and the airport to SAE members. All SAE members are invited to bring their vintage, sport, homebuilt, experimental, antique and contemporary aircraft to this gathering. This is our final event of the 2008-2009 program year.

- Static Aircraft Displays of Single Engine, Twin Engine, Charter Jets
- Homebuilt Aircraft
- Radio Controlled Aircraft
- Cirrus SR-20 and SR-22 Aircraft
- Flight Training and Pilot Education
- Avionics, Airframe and Aircraft Interior Modernization and Restoration Displays and Presentations.
- * “Young Eagles” Flights Hosted by Local EAA Chapter
- * Discovery Flights by Wisconsin Aviation for 25.00

Watertown Airport Details <http://www.airnav.com/airport/KRYV>

About Wisconsin Aviation – www.wisconsinaviation.com

Wisconsin Aviation is the state's largest full-service fixed-base operator (FBO) and provider of general aviation services including charter, flight training, aircraft rental, aircraft sales, maintenance, avionics, interiors, and line services.

Our corporate headquarters is conveniently located at the Watertown Municipal Airport, five miles north of Interstate 94 at the mid-point between Wisconsin's two largest cities, Milwaukee and Madison, the state's capital.

Program Details:

--- EVENT AGENDA ---

Registration: 4:00 – 6:00 pm
Dinner: 6:00 pm
Program: 6:45 – 7:30 pm
Special Tours: 8:00 - 8:30pm

--- DINNER ---

PRICES:
SAE Members / spouses: \$10.00
Retirees: \$10.00
Guests / Non-members: \$15.00
Students \$5.00

--- MENU ---

BUFFET MENU:

- Barbeque Chicken or Home Style Pot Roast
- Baked Beans, Sweet Corn
- Potato Salad, Cole Slaw
- Complementary Water, Soda, Coffee

Registration:

Only pre-payments made with a **charge card** can be completed online via <http://milwaukee.sae.org>

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

Registration deadline: Tuesday, May 19th, 2009 - 12:00 Midnight

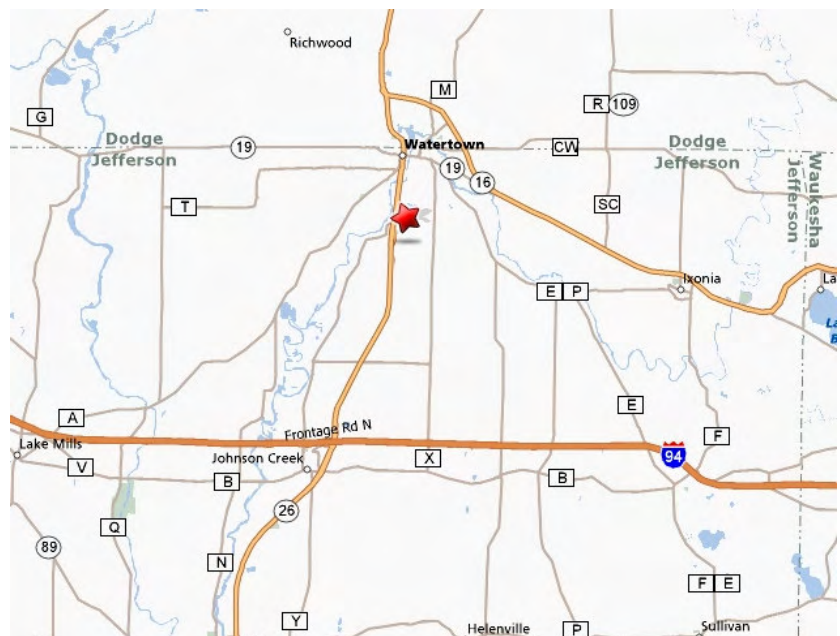
Note: Last tour starts at 5:15p.m.

Map to: Wisconsin Aviation

Wisconsin Aviation - Watertown
(RYV)
Corporate Headquarters
1741 River Drive
Watertown, WI 53094

From Milwaukee:
I-94 West to Hy 26
Hy 26 North to Aviation Drive
Right on Aviation Drive
Left on River Drive

From Madison
I-94 East to Hy 26
Hy 26 North to Aviation Drive
Right on Aviation Drive
Left on River Drive





**So you missed the tour in April....?????
Take a couple of hours off and check us out.
You can tell your boss it's for work.**

Call us. We don't want you to have missed anything. Signicast Investment Castings has been a world-class provider of high-quality, cost-effective, steel investment castings. Come see why. We'll be glad to show you.

Contact Signicast today to take a personal tour, hear our technical seminar, or just to learn more about investment casting in general.

P: 262.673.2700 sales@signicast.com

The First Milwaukee Section Open House –

Our first Open House drew 12 members. We discussed what attracts members, engages them and what we should consider for the future. The main goal was to help identify programs we should pursue for this coming year and get an idea of “what works” for our section. Jim Ryan and Bernard Krauska facilitated two groups in the discussion. There were a number of lessons learned from this event:

- 1) Be more open in our communication
- 2) Clearly communicate how members can participate on the governing board
- 3) Share more information in the newsletter about what happened at the last event
- 4) Tell members what they can do to help students
- 5) Improve our marketing to the section
- 6) Programs with tours and great speakers are most desirable
- 7) High interest programs do not need to be automotive related
- 8) Engage management of member companies to participate.
- 9) Schedule a technical skill or educational training event such as the lecture series
- 10) Partner with another technical organization to prepare a compelling program

A list of 23 companies was identified for potential programs. A follow up governing board meeting will be scheduled to help plan and secure some of these companies into our program schedule. We are still open to more ideas!

Our Milwaukee Section Governing board also grew and engaged as a result of this meeting. Tony Grant is partnering with Wayne Richter and Tim Fauser to help revitalize our Plant Representation program. Dave Boyles of Harley Davidson was one of the first to volunteer. Please contact Tony or Wayne if you are interested in being a plant rep too.

Mike Krauski, Industry Relations at UWM, is going to partner with Bernard Krauska on the development of a Collegiate/Industry Relations program. The goal of the program is to link our member companies with the student chapters and their Collegiate Design Series competitions. Our student members need to be mentored, sponsored, guided and encouraged. Details to follow.

What qualifications do I need to join the governing board? Just answer (3) questions: What brought me to SAE? Why am I a member today? What do I want to accomplish as a board member? We can help you with the rest.

How can I help the Milwaukee Section? We are currently planning our programs for this coming year. We are also looking to step up our communication to the section members and seeking to further develop our succession plan. We are looking for assistance in Registration, Programs, Newsletter and Web based communication. If you have an interest – please contact any board member.

Graphics Systems, Professional Engineering Placements and SAE Milwaukee Section Helping to Assist Members with Job Seeking and Retraining

The SAE – Milwaukee Section and Graphics Systems are working on a program to assist SAE Milwaukee Section members who have been recently laid off. Graphics Systems will allow these SAE members to participate in SolidWorks® training at no cost, based upon space available. Training materials will be paid for by SAE Milwaukee Section. In addition, Dale Wiza of Professional Engineering Placements will assist with career and resume coaching.

SAE International also has a provision for unemployed members to maintain their membership at a reduced rate.

For further information, please contact David Pond at Graphics Systems david.pond@gxsc.com, (262) 790-1080 ext 1117, Dale Wiza at Professional Engineering Placements dale@engineeringplacements.com (414) 807-9663, or Bernard Krauska at krauska@execpc.com 262-442-7754. Qualification and proof of membership required. Details to follow.

2009-2010 Milwaukee Section Governing Board Officer Candidates

Chairman - Jim Ryan – Modine Manufacturing Company
Vice Chairman – Josh Rayeske, Strattec Security Corporation
Secretary – Wayne Richter, Heraeus GmbH
Treasurer – Bernard Krauska, DRS Technologies, Inc.

The election of officers will be made at the May 21st meeting at Wisconsin Aviation immediately after dinner.

Milwaukee Section 2008-2009 Governing Board

CHAIR:

Bernard Krauska
DRS Technologies
email: Krauska@execpc.com
Phone: (262) 442-7754

VICE CHAIR:

Josh Rayeske
Strattec Security Corporation
email: jrayeske@strattec.com

SECRETARY:

Wayne Richter
Heraeus GmbH – Exhaust Catalysts
email: richterway@sbcglobal.net
Phone: (262).377.8145

TREASURER:

Jim Ryan
Modine Manufacturing Company
email: J.W.Ryan@na.modine.com

PAST CHAIRMAN:

Joe Sagat
Modine Manufacturing Company
email: j.g.sagat@na.modine.com

WEBMASTER:

Cara Piggott
Cummins Filtration
email: cara.r.piggott@cummins.com
Work: (608) 877-3918

MEMBERSHIP/

COMPANY REPRESENTATIVE:

Tony Grant
Hamlin, Inc.
email: tony.grant@hamlin.com
Work: 920-648-6237

A WORLD IN MOTION (AWIM): Education

Patrick Murray
Muskego High School
email: pmurray@mnsd.k12.wi.us
Work: (262)679-2300 x 4166

CAREER DEVELOPMENT

Dale Wiza
Professional Engineering Placements, Inc.
email: dale@engineeringplacements.com
Work: 414-807-9663

Collegiate Relations

Mike Krauski, Industry Relations
UW-Milwaukee
email: Krauski@uwm.edu

COLLEGIATE ADVISORS:

Glenn Bower, PhD.
UW-Madison
email: grbower@facstaff.wisc.edu
Work: (608) 263-7252

Chris Damm, PhD.
Milwaukee School of Engineering
email: damm@msoe.edu
Work: (414) 277-7543

Jim Rice, PhD.
Marquette University
email: james.rice@marquette.edu
work: (414) 288-5405

Dear Section Members and Friends,

Earlier this year, I was asked a few questions about the future of engineering and concern about the economy by a few students. This past September, it was easy for me to recall what the environment was like in the early 80's.

Chrysler was appealing to congress for loan guarantees. Renault was revitalizing AMC. Harley-Davidson was re-inventing itself. It was easy to be positive and talk about how each of those stories evolved. Chrysler became bigger, never needed the government to cover the loans, eventually bought the remnants of AMC from Renault, and introduced the Minivan.

Harley was growing at an incredible pace and became the icon for reinventing the organization, American manufacturing and product development. Briggs and Stratton, Mercury, Evinrude and Modine were on growth and expansion plans. I was very positive and assured that in this decade – “things will get better”.

While it is not my interest to make this a political forum. It is completely amazing to me to see what is happening today. Chrysler is going down the same direction, but taking a different path. There is no charismatic leader such as Lee Iacocca building up Chrysler and clarifying the vision for reinventing the business. I do not ever recall seeing bond holders taking a “3rd” seat in a bankruptcy case. Even more amazing is the dismissal of Wagoner at GM. Wisconsin will be losing the last two auto plants in the state.

During the past 5 months, I have received my share of notes and member email regarding what is happening in industry, and the unintended consequences of government involvement. Involved Milwaukee Section members have known of the real effectiveness of corn based ethanol from a number of perspectives including: environmental, agriculture, water, and energy policy. It is interesting to see a number of organizations and media begin to illuminate the issues 4 years later.

It is difficult for me to respond to each email and comment about the current situations – especially in the section newsletter. I do appreciate you sharing them with me because I share some of the same concerns.

What should we do? Let's start with leadership. I encourage you to be involved in your industry, company or community. Help our SAE community to be effective leaders, and reinvent product development and manufacturing. Help those in government understand the unintended consequences of their actions. Don't be passive. Take responsibility for your future. Lead courageously. There will always be an important role for you.

Thanks for your support during the past 2 years as chairman. It has been a very nice ride. I still feel that I have gained more than I have contributed. I welcome you to join me in my support for Jim Ryan and the governing board for years to come. Did I mention we are looking for more leaders?

Regards,

Bernard Krauska

Chairman, SAE Milwaukee Section



Milwaukee Section Newsletter

JUNE 2009

www.milwaukee.sae.org

ROAD *Road Racing at its Best™* AMERICA

Elkhart Lake, Wisconsin



SAE at the 'June Sprints'

The First Leg of the SCCA Triple Crown

Saturday June 20, Sunday, June 21

7:00 am – 6:00 pm

Special SAE Ticket Prices

\$5.00 for SAE Members

\$10.00 for Non-Members, Guests

Make your plans now!

Join your SAE Milwaukee, Chicago, Rockford-Beloit, Michiana, Indiana and Western Michigan Sections at this great race event. Help celebrate the Chicago Region's 60th anniversary. Come enjoy this outstanding racing experience. We are so privileged to have this fine 4.5 mile race course conveniently available to us. 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 21 or Sunday June 22. Chose any day or both at the special per day 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 on the day of the event.** Gates Open – starting at 7AM.

Your Program Managers for this event are Doug Kautzer, Briggs and Stratton, Milwaukee Section 414.259.6733 cell, and Mark Fisher, Control Systems Inc., Chicago Section - 847.224.9871 cell.

How to order Tickets – Order your tickets on line ONLY through the SAE web site at www.milwaukee.sae.org. Deadline is Tuesday, June 16th. Tickets will be available at Gate 3 “Will-Call” on the day of the event.

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. Doug Kautzer will be hosting the event on Saturday, and Mark Fisher will be hosting the event on Sunday.

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 for more details about the event.

Directions to Road America, Elkhart, Lake, WI-

From Green Bay

Take I-43 south to Hwy. 23 west. Take Hwy. 23 west to Hwy. 67. Take Hwy. 67 north to the track. At County J turn left to enter Gates 3. Scenic: Hwy. 57 south to Hwy. 67 at Kiel. Hwy. 67 south to Road America. At County J, turn right to enter Gate 3.

From Madison

Take Hwy. 151 to Fond du Lac. At Fond du Lac take Hwy. 23 east to Hwy. 67 north. Take Hwy. 67 about 2 miles. Turn left on County J to enter Gate 3.

From Milwaukee

Take I-43 north to Hwy. 23. Take Hwy. 23 west to Hwy. 67 north. Continue north to County J. Turn left on County J to enter Gate 3.

From Minneapolis/St. Paul

Take I-94 east to Mauston, Wisc., then take Hwy. 82 east to Hwy. 23 east. Stay on Hwy. 23 to Hwy. 67. Take Hwy. 67 north. At County J turn left to enter Gate 3.

From Rockford, IL

Take I-90 to Beloit, Wisc. Take I-43 north through Milwaukee and continue north to Hwy. 23. Take Hwy. 23 west to Hwy. 67. Take Hwy. 67 north. At County J turn left to enter Gates 3.

Camping Check-In

From Hwy. 67, go west on County Road J, enter Gate 4, which is open from 7 a.m. to 10 p.m. Thursday through Saturday for registration. No camping registration before or after these hours. Note: all campers must vacate Sunday after the races.

2009 SAE Baja, MGA Proving Grounds, June 11 - 14th 2009 – Sponsors and Volunteers Needed!

Get ready for Baja! This year the competition will be hosted by UW-Madison at the MGA proving grounds in Burlington, WI. Glenn Bower, Mike Christopherson, Jason Bower and Kathryn Christopherson are providing their capable leadership for this competition again. However, they will need the help of many other volunteers to make this event successful. More than 100 collegiate teams from around the country will be here.

Event planning and site preparation are happening now! There is much work to be done for the track and event site preparation. The times are generally Saturday's preceding the event, and will vary depending on work scope, progress and weather.

Please stay tuned with the event by following the competition website at www.baja.wisc.edu. Download and complete the volunteer form, and send to Glenn Bower at grbower@wisc.edu or fax (608) 262-3592.

8x 16 Dual Axle Trailer FOR SALE \$4500.00 Pace

America Trailer - Summit #SL816TA2. The trailer has been used for Baja and has ~300 miles on it.

Proceeds go toward the Collegiate Design Series and Student Grants. Contact Bernard Krauska, Wayne Richter or Glenn Bower for more details.





Wayne Richter – Secretary
1588 Woodland Dr
Grafton, WI 53024

For more information on becoming a sponsor, please contact any Section Board member.

Keep current with us on these SAE web sites:

www.milwaukee.sae.org for the Milwaukee Section

For more information on *A World In Motion* call: 724-772-8514, and ask for Darlene Geweth
email: awim@sae.org internet: www.sae.org/foundation/awim

Meeting Sponsorship



Drive-by-wire
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