

SAE MILWAUKEE

An SAE International Section

May 2014

UPCOMING EVENTS

- **CATERPILLAR**
 - June 3
- **2nd Annual SAE Milwaukee Section Golf Outing**
 - June 4
- **Road America June Sprints**
 - June 14
- **SAE Milwaukee Section Cruise Night**
 - July 9
- **Harley Davidson's Street 750 & 500**
 - September 18

The Caterpillar logo, featuring the word "CATERPILLAR" in a bold, black, sans-serif font with a registered trademark symbol. A yellow triangle is positioned below the letter "A".

June 3, 2014



Milwaukee, WI

NO WALK INS
REGISTRATION REQUIRED

DEADLINE:

May 30

For more details,
Go to www.facebook.com/MilwaukeeSAE
and Like us!

A little background about Caterpillar...

CATERPILLAR®

THE MINING
INDUSTRY'S BROADEST
PRODUCT LINE
ONE SOURCE.



Wherever you go in the mining world, you'll find Caterpillar. From underground coal mines in China to surface gold mines in Mali to the oil sands of Canada, our products are hard at work. And our people are right there, too—building and supporting products, training operators, helping our customers mine more profitably, conducting research and development, and working with schools, organizations and communities.

Caterpillar serves the worldwide mining community through its Caterpillar Global Mining organization, headquartered in Oak Creek, Wisconsin. Global Mining is the single point of contact for global mineral producers and the primary link to the Caterpillar extended mining enterprise. We provide mine-specific product and

service solutions that help our customers enhance safety, improve efficiency, increase productivity and reduce cost per ton.

The Cat® equipment product line currently consists of more than 300 machines used in dozens of industries. In addition to tractors, trucks, graders, excavators, scrapers and other heavy machinery used in the construction, mining and forestry industries, Caterpillar also makes diesel and gas engines used in Cat machinery, electric power generation equipment, locomotives and other industrial equipment. With 50 production facilities in the United States and another 60 overseas, Caterpillar does about 44 percent of its business within the United States and 56 percent abroad. The company employs over 100,000 people; of those, about 4,000 are employed by the Caterpillar Global Mining organization.

South Milwaukee Facility & Tour

The South Milwaukee facility began in 1893 as the Bucyrus Steam Shovel and Dredge Company of Wisconsin. It has grown to over 1,000,000 square feet of manufacturing space on a 75 acre campus. We build some of the largest equipment on earth: electric rope

shovels, ultra-class hydraulic excavators and aftermarket parts for draglines. We are proud of what we make, to be a member of this community and to be a part of Team Caterpillar.

The meeting tour will take you through the assembly building and weld shop where you'll see the equipment and components that build Cat electric rope shovel products.

Before and after the tour, you are welcome to visit the Heritage Museum, which maintains an archival collection that contains product literature, scale models and photographs that pre-date the move from Bucyrus Ohio to South Milwaukee. The oldest items in the collection include the manufacturing plate from the company's first dredge and engineering drawings on linen paper from the 1880s.



A little background about Caterpillar continued....

About the Presentation...

Large Caterpillar Mining Trucks

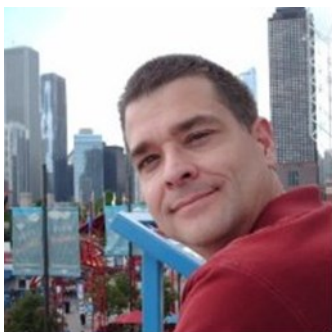
Learn about how the largest trucks in the world are used in surface mining applications. Our speaker, John Ingle, will describe the application, drive system, and engineering challenges of developing this heavy duty equipment.



Caterpillar's largest truck, the 797F, is an ultra-class mining truck, designed and built by Caterpillar using components and systems that have evolved through years of rugged mining applications. It delivers excellent maneuverability, safe operation, low maintenance costs, lower operating costs and a comfortable ride. This gross machine weight is 1,375,000 pounds and carries a payload of 400 tons, that's 800,000 pounds! The truck is powered by a Cat[®] C175-20 quad turbocharged 20 cylinder diesel engine, delivering 4,000 gross horse power.



About our Speaker...



John Ingle is currently the product performance manager for large mining trucks at Caterpillar. He has worked for Cat 28 years in various roles like the corporate mining engineer, machine application specialist, senior marketing engineer, Commercial rep, New Product Introduction (NPI) project lead and NPI Program Manager. John has a Mining and Metallurgical degree from the Colorado School of Mines and worked for Coteau Mining before coming to Caterpillar.

EVENT AGENDA

Registration and Museum: 4:00 pm to 4:30 pm

Plant Tour: 4:30 pm to 6:15 pm

Dinner: 6:30 pm to 7:00 pm

Presentation: 7:00 to 8:00 pm

Meal: Lemon Chicken, Sliced roast Beef, Garlic Mashed Potatoes, Seasonal Vegetables, Dinner Roll and Butter with a cookie and brownie tray for dessert.

REGISTRATION FEES

SAE Members	\$20.00
Retirees	\$15.00
Guests/Non-members	\$25.00
Students	\$10.00

REGISTRATION

**Employees of competitive mining equipment manufacturers are not permitted to attend.
Thank you for your compliance and understanding.**

- Registration Deadline: **May 30**
- Maximum Attendance for this event is **100**
- Registration can be completed three ways:
 - Online with a charge card via <http://milwaukee.sae.org>
 - By Phone at 920-559-9077(Charlie Scanlon)
 - By Email scanlonc@msoe.edu (Charlie Scanlon)

REGISTRATION REQUIRED / NO WALK INS

Meeting Location: 1970 10th Ave, South Milwaukee, WI 53172



A recap of recent section events.....

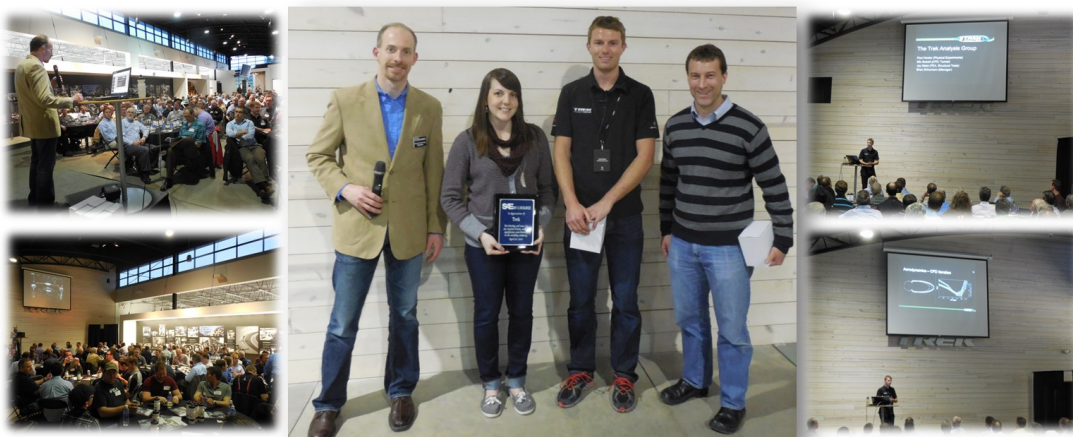
Our April Section meeting was hosted by Trek Bicycles in Waterloo, Wisconsin. We had over 125 members, guests and students attend this fantastic event. SAE Milwaukee extends a very special thanks to [Trek Bicycle](#) for hosting a very great event!



The event started with tours that took us through their product development departments, fitness facilities, validation test labs, carbon frame production lines, [Trek Project One](#) customization lines, and carbon fiber prototyping labs.



The night then concluded with dinner and a presentation by Paul Harder of Trek Bicycle's analysis group who gave a very impressive and interactive presentation on Trek's very advanced FEA, CFD, and field correlation capabilities that keep them on the forefront of the ever advancing bicycle technology race.



A recap of recent student chapter events.....

The UW-Milwaukee Baja SAE team had one of its best finishes in recent history. They were able to place 15th overall in the ETEP event in El Paso, Texas with their best finish being in the Endurance race, where we placed 8th. This is a great accomplishment considering that competition they are facing in these international events. The team competed in static and dynamic events such as sales presentation, design presentation, technical inspection, hill climb, acceleration and the endurance event. Well done UW-Milwaukee!!



On Saturday, May 3rd, MSOE's student chapter of SAE held their first annual "May Day Car Show" at Discovery World, on Milwaukee's lakefront. The show featured project vehicles from MSOE, UW-Milwaukee, and UW-Madison, which served to demonstrate opportunities within automotive engineering to museum visitors. The theme of the event was "Landmarks in Automotive History," so in addition to the student vehicles, twenty historically significant vehicles were featured, ranging from a 1909 Ford Model T to a 2013 Tesla Model S. The show was a huge success, drawing hundreds of people to the event throughout the day and gaining valuable exposure for the student projects and SAE on a professional and collegiate level. Thanks to everyone who helped make this event a success by participating in the show or coming to see the cars!



2nd Annual SAE Milwaukee Scholarship Golf Benefit

Wednesday, June 4th 2014

Mee-Kwon Golf Course, Mequon

SAE Milwaukee section will be hosting its 2nd Annual SAE Milwaukee Scholarship Golf Benefit on Wednesday, June 4th 2014. The event will kick off at 11:30 AM with registration followed by a 12 PM lunch. Tee off will be at 1PM via a shotgun start. All holes will be played according to "best ball" rules. The day will wrap up with a 5:30 networking reception. The number of players is limited to 80, with priority being given to sponsors. This is a perfect event for team building. In addition, all proceeds will go to SAE sponsored scholarships.

Mee-Kwon Park is located on one of the highest elevations in Ozaukee County and is a magnificent 18 hole facility that continues to get rave reviews from its customers. Many golfers have said it is better than many private facilities they have belonged to or played at. The course offers a variety of challenges; hills with gentle knolls, level terrain, trees, water, dog legs, and over 40 sand traps, which will keep you thinking about your next shot. The 18-hole course features 6,486 yards of golf from the longest tees for a par of 70. The course rating is 70.6 and it has a slope rating of 122.

EARLY BIRD DISCOUNT

Register May 9th to receive discount!

- Sponsored Foursome – \$500 (\$600 after May 9th)
- Non-sponsored Foursome – \$300 (\$400 after May 9th)
- Individual Golfer – \$75 (\$100 after May 9th)
- Students – \$60

SPONSORED FOURSOME - \$500 (\$600 after May 9th)

- (1) Golf foursome (\$300 value)
- Hole sponsor lawn sign with company logo
- Company logo on banner and event material

The slots for this event will not last long. Early registration is the only way to guarantee a spot. Teams will be emailed 2 weeks prior to outing with hole assignments and registration details.

Registration includes cart rental, lunch, dinner, awards, raffle prizes, and non-alcoholic beverages (cash bar for alcoholic beverages).

For more information contact Wayne Richter at (262) 770-0252 / richterway@sbcglobal.net or Tony Grant at (414) 755-2164 / tony.grant@earthlink.net.

SAE MILWAUKEE
An SAE International Section



Additional sponsorship opportunities available on a first come basis:

LUNCH SPONSOR - \$1500

- Exclusive recognition as lunch sponsor
- 1 golf course foursome (\$300 value)
- Company logo in SAE Milwaukee Section Newsletter for one year (\$200 value)
- Reserved table of 10 at any Milwaukee Section event (\$100 value)
- Hole sponsor lawn sign with company logo
- Company logo on banner and event material

DINNER SPONSOR - \$2000

- Exclusive recognition as networking event sponsor
- 2 golf course foursomes (\$600 value)
- Company logo in SAE Milwaukee Section Newsletter for one year (\$1000 value)
- Reserved table of 10 at any Milwaukee Section event (\$200 value)
- Hole sponsor lawn sign with company logo
- Company logo on banner and event material

Wednesday, June 4th 2014 • Mee-Kwon Golf Course, Mequon

Mail to: 1588 Woodland Drive Grafton, WI 53024 • Or register online at <http://www.milwaukeeesae.com/>

No refunds after Wednesday, May 21st 2014

Sponsor Information (The donation receipt will be mailed to this contact.)

Company _____	Contact Name _____
Street Address _____	City/State/Zip _____
Phone _____	Email _____

<i>Individual golfers will be paired to make foursome.</i>	Name	Contact Info
1 st Golfer **		
2 nd Golfer **		
3 rd Golfer **		
4 th Golfer **		

** Will be contacted 2 weeks prior to event with hole assignments and registration details. Need to provide both name and contact information.

2014 Golf Benefit Sponsors:

  	  	<p>Lunch Sponsor</p>  <p>Dinner Sponsor</p> 
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Early Bird Registration – Register Before May 9th

Summer Cruise Night

When: July 9th 6:00-9:00 pm

Where: HB Performance, South Lot (along Donges Bay)

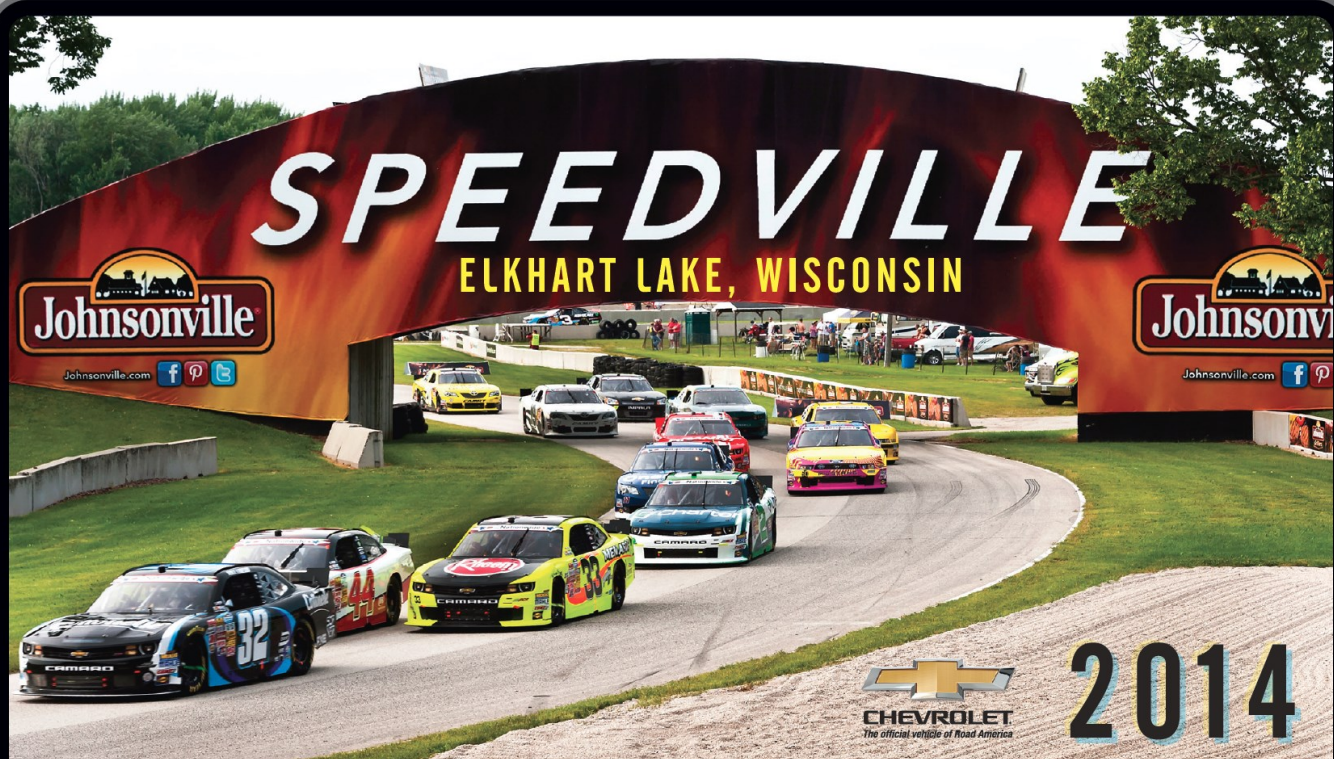
Summer is finally here! Mark your calendars and start your engines for the evening of Wednesday July 9th for our 1st annual SAE Milwaukee Section Cruise Night. Break out the car wax and chrome polish, and then bring your favorite classic ride, hot rod, motorcycle, or performance car to HB Performance for an evening of comparing notes, seeing what is under the hood and mostly true stories.

Goto: www.milwaukeeesae.com/ to register you and your ride.

Contact: Garrett Heming (garreth@pwrst.com) with any questions.



All vehicles must have current registration, license plates and insurance. Vehicles must be driven to and from HB Performance. No race vehicles, trailers, or vehicles on trailers permitted.



MAY 16-18

SVRA Spring Vintage Weekend

MAY 30-JUNE 1

**GEICO Motorcycle AMA Pro Racing
SUBWAY SuperBike Doubleheader**

JUNE 6-8

AHRMA Vintage Motorcycle Classic

JUNE 12-15

**WeatherTech® Chicago Region
SCCA June Sprints®**

JUNE 19-21

**Gardner Denver 200 Fired Up by Johnsonville
NASCAR Nationwide Series /
Pirelli World Challenge / SCCA Trans-Am**

JUNE 22

OPTIMA Faceoff at Road America

JULY 17-20

The HAWK with Brian Redman

AUGUST 7-10

**Continental Tire Sports Car Challenge /
TUDOR United SportsCar Championship**

SEPT 12-14

VSCDA Elkhart Lake Vintage Festival®



RoadAmerica.com

800-365-7223

GET YOUR FAST PASS AND
RACE TO ROAD AMERICA!



**GET ONE
FREE!**

**May 30th - June 1st
Elkhart Lake, WI**

**Single Day Race Ticket
with every \$35 spent
at SUBWAY® Restaurants**



INSTRUCTIONS:

- Attach \$35 in receipts to Road America Fast Pass Voucher (near register)
- 1 ticket per voucher, no refunds or exchanges
- Receipts must be dated between April 1 - May 12, 2014
- Mail Fast Pass Voucher and receipts by May 12, 2014 to:
Road America & SUBWAY® Offer
PO Box 338
Elkhart Lake, WI 53020

- Include a self-addressed, stamped envelope with the receipts and coupon.
- Original receipts only – no reprints. 4 receipts per envelope, per person.
- Tickets will be mailed to the address you provide
- No walk-in coupon redemption
- On-site camping available - fees apply
- Questions? Call Road America at 800-365-7223 or visit RoadAmerica.com
- Offer valid at participating Wisconsin SUBWAY® restaurants

SUBWAY
race hard. eat fresh.™

Promotion begins April 1, 2014 and ends on May 12, 2014. For complete details, see official rules available at www.roadamerica.com.
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SAE Milwaukee Section / Road America / Growing Together...

Students – Start now to collect your Subway sandwich receipts and redeem for free admission to one day at Road America’s Superbike Double Header.

SAE ADDED \$5 BONUS—Students—Hold onto your Superbike weekend ticket stub and present at registration for any 2014-2015 Section meeting and receive \$5.00 off your dinner. Have fun and enjoy our new Partnership with Road America.

Milwaukee Section 2013-2014 Governing Board

CHAIRMAN:

Garrett Herning—Power Test Dynamometers
garreth@pwrst.com

VICE CHAIRMAN: OPEN**SECRETARY:**

Doug Kautzer—Briggs & Stratton
kautzer.douglas@basco.com

TREASURER:

Mitch Crawford—Modine
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jim.ryan@cat.com

HISTORIAN:

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AWIM/EDUCATION:

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Kurt Person—HB Performance Systems

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STUDENT PROFESSIONAL TRANSITION MANAGER:

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UWM: Andrew Caron ajcaron@uwm.edu
Michigan Tech: Christopher Blanchet cmblanch@mtu.edu
UW Madison: Jacob Reiderer jriederer@gmail.com
NMU: John Walsh johwalsh@nmu.edu

Greetings Milwaukee SAE Section Members and Friends,

Summer is quickly approaching as we are coming up on the last few events for the SAE calendar year. I'd like to thank all of you who attended our events this year. We've seen a steady increase in attendance this year with well over 100 members at the Mercury Marine and Trek events. I'd also like to thank all of our sponsors who hosted events or helped us as a section. This is a big part of what makes the Milwaukee SAE section recognized as one of the top SAE sections worldwide.

Our last meeting will be at Caterpillar in South Milwaukee on June 3rd. We have an excellent tour and talk planned and the museum will be open in between so please come join us for Caterpillar's hospitality.

On June 4th will be our Second Annual golf outing. This is a great networking opportunity as well as a great way to support our student sections. This is filling up quickly, so if you have not registered as of yet, please see the registration link on the SAE Milwaukee website.

On July 9th we have a Cruise Night planned. Bring out a classic car, hot rod, motorcycle or your favorite performance vehicle to display and share an evening of with some of your fellow SAE members. HB Performance Systems has graciously offered their location for use. Please mark this on your calendar.

Lastly, we are already planning our events for next year. If you have an interest in getting involved on the Governing Board, please contact any board member. This is a great organization and we always welcome any member who would like to get more involved.

Have a great summer!

Garrett Herning

Milwaukee SAE Section - Chairman

Section Sponsors



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