

Family Night Meeting Thursday, 19-May-2005



PROGRAM:

C - A - R - S

... **HOT** new Chryslers & Jeeps,
Show Cars, Mopar, AMC, Special
Interest Cars, R/C for kids, too!!!
** SAE 100 Year Anniversary **

- ◆ You've been to dealerships before, but be sure to visit HUB Chrysler-Jeep during our next event for a great night for the whole family!
- ◆ James Lecher of Hub Chrysler-Jeep is opening up the service side of the dealership for us.
- ◆ Demos illustrating today's high tech engine diagnostics, paint and accredited body shop techniques for the best paint possible and a behind-the-scenes look at a modern service center - don't miss it!
- ◆ A great radio controlled (R/C) model car demonstration, by the pros, will run at 6:45p. The kids can try their hand, too, and R/C rigs are some of the prizes! SAE shirts, hats, too.
- ◆ Welcome our special guests, past Milwaukee Section Chairmen.
- ◆ See the special interest car show, including classic Mopar, Viper, Salen (what?) and some other great surprises. Enter your car!!
- ◆ Technical presentation:
 - > Dr. Jack Thompson, SAE 2003 President (Vice-President, Chrysler Corporation)
Digital Product Development in the Auto Industry



Location:

Hub South Chrysler-Jeep, Inc.
3035 South 108th Street
[HWY100 & Oklahoma]
West Allis, WI 53227
Phone: (414)327-2400

--- EVENT AGENDA ---

Registration:	4:45pm
CAR SHOW & TOUR	5:00pm
Dinner:	6:00pm
R/C Nitro Fuel Race:	6:45pm
Program:	7:15pm

--- DINNER ---

MENU:

Buffet will be provided - *No selection is required*

MEAL PRICE:

SAE Members / spouses:	\$10.00
Guests / Retirees:	\$10.00
Students w/I.D.	\$5.00
Children (3-12yrs)	\$3.00

Registration:

Dinner reservations must be received the week before the event. Only charge card pre-payments can be collected online, via <http://milwaukee.sae.org>. Register to **pay-at-the-door** via email at: milw-sae@wi.rr.com, or call the SAE Phone Line at **(414) 687-3032**. "No-shows" with reservations will be billed. 50-Year members entitled to 1 free dinner annually.

Registration deadline: **noon – Monday, May 16th**

Topic: DIGITAL PRODUCT DEVELOPMENT IN THE AUTO INDUSTRY

Tonight's presentation will show some of the latest methods used to design cars and light trucks to meet goals for crash performance, noise and vibration, and durability. New analytical tools have dramatically reduced the cost and time required to go from concept approval to launch.

Also provided by Dr. Thompson will be an assessment of DaimlerChrysler and auto industry challenges as they face up to global competition and rapidly increasing oil prices. I will then offer some career advice for young engineers in mobility industries.

Speaker: <> Dr. Jack E. Thompson, Director, CAE & Concept Development, Advance Vehicle Engineering (retired), currently operating *JET Automotive Consulting, LLC*

Our Speaker at tonight's event has enjoyed a long career with Chrysler. Jack Thompson will speak to us from his experience.

Jack's career history includes 2 years at Albuquerque Division, ACF Industries, Inc., as AEC Contractor, nuclear rocket program/FORTRAN training, and 39 years at Chrysler/DaimlerChrysler. He started as a product engineer in 1964. He advanced to Manager, Vehicle Structure Analysis (72-76), Program Manager, Electric Vehicles (1977), Chief Engineer, Advance Engineering(79-82), promoting the 1st Use of CAD (1981), Adv. Design of '84 minivan, '84Daytona, '85H-Body, '86P-Body, Manager and Director, Advance Manufacturing Planning (78-79, 82-85) promoting 1st Laser Gauging, Robot Painting, Robotic Arc Welding with Vision, Factory Information System (FIS), Tool Remastering (Warren Truck), selected, installed, and operated 1st Mfg. CAD Systems (G.E. Calma).

Jack was selected as Director of the Technical Center Development Program for the design and construction of the Chrysler Technology Center in Auburn Hills, MI (85-88), where he selected the architects and construction managers, developed the design for the 4 million square foot complex under one roof, launched the construction on time and on budget (\$675Million). The building has

been given many awards and is recognized as the leading automotive technical center in the world (...they say with all due modesty – come see it if you have doubts).

Following that, he was the Director for Advance Programs (LX rear wheel drive luxury/sport vehicle) & Executive Science Affairs (89-91), Executive Engineer on the Large Car Platform, Advance Vehicle Engineering (91-95), '95 JA (Cirrus, Stratus) and '98 LH (Intrepid, Concorde, LHS). He started the DMA (digital mock-up) process replacing Physical Mock-ups, led teams in creating the Programmable Seating Buck and the NVH Driving Simulator, built 3/8ths scale Aero Bucks, and led a team that went from clay model to JA hood in 109 hours. He worked as Director, CAE and Concept Development, Advance Vehicle Engineering (95-2004) when he retired.

He earned a BSME with Distinction, from the University of New Mexico in1961, and his MS from Stanford University in 1962. Dr. Thompson graduated from the Engineering School at the University of Detroit in 1972, and then received his MBA in 1985 from Michigan State.

Please say hello to Jack on the night of the event, wish him well in his continued successes, and thank him for a job well done as our past 2003 SAE International President.

Milwaukee Section 2004-2005 Governing Board

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Glenn Bower, UW-Madison
Work: (608) 263-7252

- Dale's Last Chairman's Note -

Well, we covered a lot of ground with the students last month, and look forward to closing our season with a very impressive line up here for you and your family!

From April, we thank Mark Jankowski for an impressive overview of the many areas of electro-hydraulic controls that Thomas Magnete USA contributes to our industry. Watch for more in the SAE magazines. Also a big thanks to Chris Damm, Student Advisor at MSOE, Cara Piggott, Formula SAE Team Captain at MSOE, her crew of tour guides, and the professors informing us along the way. We felt the excitement and appreciation from the students to have us view and hear about their challenges and commitments with the student competitions.

This year the Student Chapters earned their Section grants by applying to the Milwaukee SAE Board. This exercise was valuable in allowing us to know more about where they are and to learn their goals. We are proud to contribute \$5000 to their valuable programs. These applications will be available for Members to view at the May meeting. As a Member, learn more, and consider mentoring at your alma mater, or anywhere you can assist. It was great to see UW and MTU at SAE 100 Congress with their vehicles too!

Congress itself was fantastic, and offered me the pleasure of meeting with our new SAE Pres. Ted Robertson. Ted has a lot of energy, and has a strong interest at the Section level. We'll invite Ted occasionally, and we appreciated Duane Tiede's generous support this past year.

A concern we heard about again at Congress was the high level of interest the Central Illinois Section (with Caterpillar) has to host our bi-yearly part of Midwest Mini Baja. We can't blame them. It's our biggest income generator allowing us to give back to our students, CSC, AWIM, you our Members, as well as the recognition for Briggs & Stratton, and other local Wisconsin contributors. Caterpillar has a V. P. in place, who helped with SAE 100 in AZ, and can again assist by using their other proving grounds in Peoria, IL.

What can we do to keep Mini-Baja here? Show our support with action! In 2004 we had 136 teams registered. We need more hands-on help to physically support Baja. As a Section, we will grow by giving support back to our local companies and members. We have the commitment of SAE to host the 2006 Mini-Baja, but need to show stronger support from the Milwaukee Section membership to continue in 2008 and beyond. Any higher level of corporate support will be recognized. Mike Freisleben (MB Chair) will be collecting names of volunteers to start planning for 2006. Please also consider joining Mike and Bernard, who will be helping out at Dayton, Ohio this June.

In my last edition of the Chair's Notes, I will make the recommendation that all of you please welcome and support Joe Sagat as a candidate for Chair. He has our complete confidence for continued success. I also want to sincerely thank our Board for their generous assistance, and you our Members for this wonderful opportunity to grow together. Our Section now serves 1350 Members, plus about 400 students! My experience as chair has helped me to become a better leader, and most importantly, a better servant.

Looking forward,

Dale Wiza
SAE Milwaukee Section Chair

S.A.E. ELECTIONS will be held at the MAY 19th meeting.

The SAE Milwaukee Section Governing Board consists of volunteer members who are willing to spend a few hours per month on section activities. The following is a slate of nominees for the 2005-2006 Milwaukee Section Governing Board's elected positions:

Chairman:	Joe Sagat
Vice-Chair:	Bernard Krauska
Secretary:	Louise Goto
Treasurer:	Wayne Richter
Vice-Chair Membership:	Tim Fauser
Vice-Chair Student Activities:	Chris Damm
Vice-Chair Math & Science:	Liz Sutton
Delegate:	Glenn Bower
Alt. Delegate:	Dale Wiza

Five or more members in good standing of the Section who are entitled to vote may constitute themselves as a special nominating committee with the same power as the elected nominating committee. If a special nominating committee had formed, it would have presented its list of consenting candidates to Chairman Dale Wiza by April 30th, 2005. All section members, except student members, are eligible to vote on section matters, to hold section office, and serve on section committees. To be eligible to vote and/or hold a section office, a member's dues must be paid in full.

To assist in our new initiatives, our Board will also be forming sub-committees. We welcome your desire to help us serve. Please inform any Board member of your interest.

Views from the
April SAE
meeting
at
MSOE...



RADIO CONTROLLED (R/C) NITRO FUEL RACE

<< time 6:30pm >>

NEW!

1/8 Racing Buggy



Watch the 1/8th scale buggy race in the back lot of HUB. Use the registration line to contact the Milwaukee Section if you have a car and want to compete.



Then, during the presentation the kids will have the opportunity to try an Electric R/C racer. The prizes available that night will be given to the kids present. Still feel like a kid, hey! You must be under 15 years old to take home the prizes.

Sponsored R/C cars: Modine's "Turbulator", "Dale the Headhunter", Heraeus's "Honeycomb", and Borg Indak, Harley-Davidson, and the SAE Milwaukee Section

Watch for the WAFD or the WAPD vehicles!

- - - **Congratulations to Our SAE Student Chapters! Grants Awarded** - - -
NMU \$1500 MSOE \$1250 UWM \$1000 UW-Madison \$750 MTU \$250 Marquette \$250

A WORLD IN MOTION.

A World In Motion brings math and science principles to life through highly interactive learning experiences that incorporate the laws of physics, motion, flight, and electronics. Each of the *AWIM* Challenges is designed around current math, science, and technology standards.

Discovery World Museum in Milwaukee uses *AWIM* to develop labs that provide an enhancement to physical science learned in the classroom. It also provides teacher training so that teachers can become familiar with the program, see how it meets the standards and become eligible to receive the challenge curriculum and material kits FREE of charge.

Designed by the Society of Automotive Engineers International (SAE), the *A World In Motion* curriculum joins together teachers, students, and volunteer practicing engineers and scientists in an exploration of physical science. Information about the *AWIM* program will be available at HUB in May.

Interested in becoming a volunteer engineer or scientist? Want to receive additional information? Contact:



Liz Sutton, Education Coordinator
Discovery World Museum
414.765.9966 ext 246
liz@discoveryworld.org



RIDERS WANTED !!

Shine up that bike and join the 3rd Annual **Roar 4 A Cure** motorcycle ride event on Saturday, August 27, to benefit the Wisconsin Leukemia & Lymphoma Society.

Registration and staging will be held starting at 8:30am at the Harley-Davidson Capitol Drive plant in Wauwatosa. Riders will follow an 85-mile route from Milwaukee north through the scenic Kettle Moraine, returning to Suburban Motors in Thiensville, where food, beverages, music and raffles will await the participants. Registration fee is \$25 per bike and \$10 per passenger. A highlight of the day will be a "1 in 300 chance" raffle for a 2005 Electric Glide Classic FLHTC. Raffle tickets can be purchased for \$100 each.

To register or for more information, please contact Pat Wakefield, L&LS Director of Development at 262-790-4701, ext. 109, or wakefielp@wi.leukemia-lymphoma.org.

Registration forms will be available at HUB on the night of the SAE May Family Event!

Way to go Bombardier : Announcement of EPA Clean Air Award

Washington D.C., April 7, 2005 - Bombardier Recreational Products Inc. (BRP) will be presented the Clean Air Excellence Award from Stephen L. Johnson, the Acting Administrator of the U.S. Environmental Protection Agency (EPA) for its Evinrude® E-TEC™ outboard engine at a ceremony held later today in Washington.

According to the EPA, BRP was selected by the jury because its Evinrude® E-TEC™ technology has redesigned engine technology for boating. "The EPA jury originally thought they would have to go to a four-stroke engine to achieve such important air quality benefits. We've demonstrated that our E-TEC two-stroke outboard engine carbon monoxide emissions are typically 30 to 50 percent lower than a similar four-stroke engine and, at idle, are lower by a factor of 50 to 100 times", said José Boisjoli, President and Chief Executive Officer, BRP.

(visit the website below for more on the story)

<http://www.evinrude.com/en-US/Media.Center/Press.Releases/1/07.04.2005.htm>

This is the first time ever that a marine engine manufacturer receives a Clean Air Excellence Award by the EPA. Evinrude E-TEC is an advanced two-stroke direct injection outboard engine that produces lower exhaust emissions including lower carbon monoxide emissions than four-stroke engines, providing a cleaner, quieter and safer boating environment. E-TEC technology meets stringent 2006 EPA, European Union (EU), and 2008 California Air Resources Board (CARB) 3-Star ultra-low emissions standards. "Today is a great day for BRP! E-TEC's environmental attributes are being recognized by EPA and, for BRP, this is a great achievement because it testifies to our capacity to marry high performance two-stroke technology and environmental protection benefits," said José Boisjoli. "I'm honored to receive the U.S. EPA Clear Air Excellence Award on behalf of our employees who have once again demonstrated BRP's leadership in the motorized recreational vehicles industry."



James Lecher, HUB Chrysler-Jeep

Meeting Sponsorship

We wish to thank the following organizations for their continued support of the Milwaukee Section:



HUB South Chrysler-Jeep, Inc.



Harley-Davidson Motor Company



Briggs & Stratton Corporation

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

Keep current with us on these SAE web sites:

<http://milwaukee.sae.org> for the Milwaukee Section or

the national site at <http://www.sae.org>

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