

MARCH TOUR & DINNER MTG

Thursday, 13-Mar-2003

PROGRAM:

ENGINE RESEARCH CENTER

- Tour of the UW-Madison ERC facility
- Sponsored Motor Coach trip from Milwaukee and Oconomowoc 'park&rides' by ACS, Inc.
- Student Exhibits / Projects
- Dinner Topic: *Total Facility Integration*



SPEAKERS:

Matthew P. Thiel, Instrumentation Engineer

David F. Sereno, Principal Engineer

Glenn J. Grasso, Instrumentation/Controls

Designer

Our after dinner discussion will center around the need for systems and facility integration as it relates to test facilities and ongoing operations.

With the primary product of the test facility being data, the data acquisition and controls system plays one of the largest and most significant roles relative to total facility integration. In addition to data collection, the data acquisition and controls system is required to maintain a consistent environment in order to obtain repeatable and meaningful results. However, in today's world of tight budgets and high stakes development, the data acquisition and control system must be economical yet flexible. Data acquisition and controls systems come off-the-shelf in all shapes and sizes and can also be efficiently customized to meet the needs of each facility. The dinner presentation describes several systems and how they can be integrated to help create a functional test facility that is economical to both install and support.

--- TRIP AGENDA ---

Milw Bus: Goerkes Corners Park & Ride
(location) (I-94 & Barker Road)
Departure time: 4:00pm ... *SHARP* please!

Oconomowoc: Summit Park & Ride (location)
(I-94 & Hwy-67)
(south of I-94 on Cty DR)
Departure time: 4:25pm ... (approx.)

Dinner: UW-Madison Campus,
(location) Engineering Centers Building

Tour: 5:30-6:30pm (approx.)
Social / Dinner: 6:45-7:30pm (approx.)
Presentation: 7:15-8:00pm (approx.)
Milwaukee Return: 9:25pm (approx.)

DINNER MENU:

Buffet will be provided - *No selection is required*

-- Italian Buffet --

Tortellini (available in both classic meat & vegetarian varieties) served with fresh tossed greens, garlic toast, strawberry tarts, beverage.

Dinner Costs:

SAE Members / spouses:	\$15.00
Retirees:	\$13.00
Guests / Non-members:	\$18.00
Students w/ID:	\$7.00

Registration Info:

Motor coach and dinner reservations must be made prior to **NOON on Monday, March 10th**. Register with a Charge Card @ <http://milwaukee.sae.org> , via email: milw-sae@wi.rr.com , or with Jon Kobleske, voice: 414-616-1722.

"No-shows" with reservations will be billed.

50-Year members entitled to 1 free dinner annually.

Our Speaker(s):

Matt Thiel: Education: Masters of Science, Mechanical Engineering, UW-Madison (2001)
Bachelor of Science, Mechanical Engineering, UW-Madison (1998)
Publications: "The Development of the University of Wisconsin's Parallel Hybrid-Electric Aluminum Intensive Vehicle", Society of Automotive Engineers, 1999
"SI Engine Operation with Retarded Ignition: Part 2 – HC Emissions and Oxidation" Society of Automotive Engineers, 1999

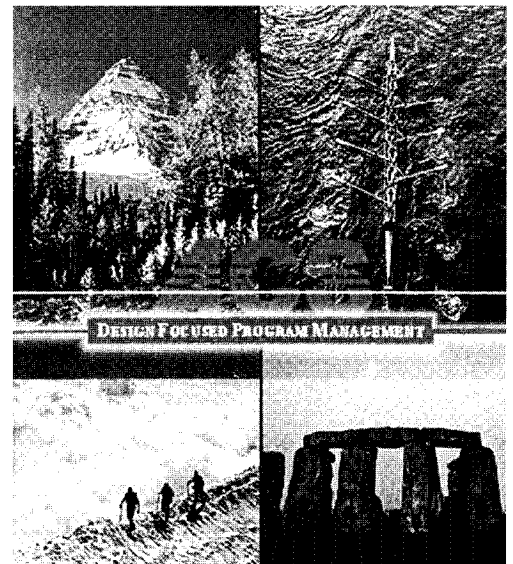
Mr. Thiel serves dual roles as project engineer and project manager. With an applied Master's in mechanical engineering from the UW Engine Research Center, he has an extensive background in emissions measurement technology and in data acquisition and control system development and application.

Dave Sereno: Education: Bachelor of Science, Mechanical Engineering, University of Wisconsin (1984)
Bachelor of Business Admin, Accounting, University of Wisconsin (1979)
Registration/Certification: Registered Professional Engineer
Professional Societies and Activities: American Society of Heating, Refrigerating, & Air Conditioning Engineers
Society of Automotive Engineers

Mr. Sereno leads Affiliated Engineers' Industrial Group and has served as Project Manager on many projects. Before becoming Industrial Group Head, he was a Project Engineer in the Commercial and Institutional Divisions. Mr. Sereno's mechanical engineering expertise includes designing diesel engine test/emissions facilities, chassis dynamometer alternative fuels test facilities, diesel engine assembly plants and aircraft vibration-mount manufacturing plants. His experience spans a wide range of technical facilities, including large corporate integrated production and development technical centers, engine, powertrain, chassis, servo-hydraulic, alternative fuel test and emissions (gas and diesel) test laboratories.

Glenn Grasso: Education: Associate Degree, Electronic Engineering Technology and
Electronic Computer Technology, Gateway Technical College (1979)
General Studies, University of Wisconsin-Parkside
Professional Societies and Activities: Instrument Society of America, Industrial Computing Society, and
Society of Automotive Engineers

Mr. Grasso is the head of AEI's Instrumentation and Controls (I&C) Department. An I&C Designer, he is experienced in equipment specification, vendor selection, purchase negotiation, and budget management. He has an extensive background in specifying, defining, and designing control systems in new dynamometer test cells facilities.



APRIL 9 Meeting "The First 100 Years of HARLEY-DAVIDSON"
(joint meeting with ASME) location: MATC downtown Campus

MAY 15 Meeting cookout/tour: "Metro Flying Club", Waukesha Airport

Milwaukee Section 2002-2003 Governing Board

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- Driving directions (in Madison) to the Tour/Dinner -

From westbound on University Avenue, turn SOUTH on N. Randall Avenue. Randall Avenue intersects University a few blocks east of where Campus Drive splits off from University Avenue. The second street on the right (west) side is Engineering Drive. Turn WEST on Engineering Drive. The Engineering Centers Building is straight ahead, a few hundred yards to the west. The parking structure is south and a little east of the Engineering Centers Building. The entrance on the east wall is for visitors. The entrance on the north wall is permit parking only.

For the latest information visit the SAE web sites:
<http://milwaukee.sae.org> for the Milwaukee Section or,
<http://www.sae.org> for S.A.E. National.

The Milwaukee Section meeting for March, a tour of the ERC (Engine Research Center) a research and educational institution investigating the fundamentals and applications of internal combustion engines, will take place on the University of Wisconsin - Madison campus (www.erc.wisc.edu) at the Engineering Research Building. We will tour the facility and visit SAE undergraduate student vehicle projects at the Phil Myers Student Automotive Center, in the brand new Engineering Centers Building.

Those attending will see a new Collaborative Research Laboratory sponsored by General Motors. The lab conducts extensive modeling of diesel exhaust after-treatment systems and diesel particulate emission traps. Researchers also conduct experiments and three-dimensional simulations of advanced combustion processes for both diesel and gasoline engines, leading to lower emissions and improved fuel economy. We will witness operation of an HCCI (Homogeneous Charge Compression Ignition) research engine and learn about engine theory and the overall project.

Also housed in the Engineering Research Building is the eMedia Center and the HP Visualization Theater. This unique, theater-style computing center showcases immersive technology that enables users to translate static and dynamic multi-dimensional data into vivid, interactive 3-D images. We will view images driven collaboratively, by multiple computers on the eMedia Center's 6' x 18' panoramic screen, which completes this large-scale virtual-reality environment.

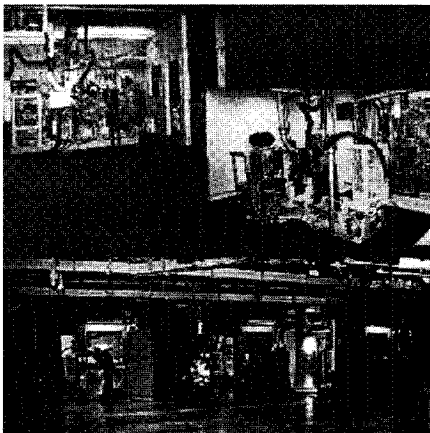
Don't miss it!

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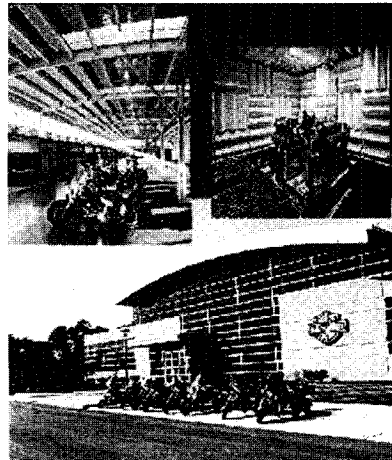
Patrick J Schoepel
1500 DE KOVEN AVE
RACINE WI 53403-2540



Some projects completed by ACS, Inc. :



John Deere



Harley-Davidson



Navistar Engine Lab

Meeting Sponsorship

The Milwaukee Section wishes to thank **ACS, Inc.** (Affiliated Construction Services) for gracious accommodations and their sponsorship of the motor coach transportation to Madison in support of this tour and trip.

We also thank the following organization for their continued support of the Milwaukee Section:

Harley-Davidson Motor Company

For more information on becoming a sponsor, please contact: Mark DeBattista