

- Program:** More Power & Voltage Driving Vehicle Design
- Location:** Dinner : Goeglein's on Maysville Road, Fort Wayne
- Date/Time:** March 13, 2002
5:30 pm Social
6:00 pm Dinner
6:45 pm Program
- Cost:** \$15.00 SAE Members \$15.00 Retirees
\$18.00 Non-member/or at the door
\$10.00 Student SAE members
\$12.00 Student non-members
- Reservations:** **Deadline for Advance Reservations is March 8th**
- Menu:** Charbroiled 1/4 Chicken, Smoked Pork Loin, Parslied Potatoes, Corn on the Cob, Marinated Veggies, French Bread, Cake
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Norman L. Traub
Director of 42 Volt Initiatives
SAE Strategic Alliance
Troy, Michigan



All vehicle manufacturers are faced with the challenge of providing more electrical power to offer increasingly fuel efficient and safer vehicles with additional customer features. This can best be accomplished by raising the system voltage provided by the on-vehicle "utility company."

For approximately the last five years, vehicle manufacturers and their suppliers have been discussing the most cost effective way to provide the higher amounts of energy being forecasted. All are in agreement that global cooperation and standardization will be needed. This presentation will outline efforts by the automotive community to provide a degree of standardization to the process and will define some of the technical challenges facing implementation in production vehicles.

ABOUT THE SPEAKER

Norman L. Traub was named Director of 42 Volt Initiatives for the Society of Automotive Engineers Strategic Alliance (SSA) on February 1, 2001. SSA is an alliance between SAE and its partner companies and government agencies to solve strategic business and technical issues for the automotive, aerospace and off-highway industries.

Traub has made presentations on 42V electrical systems at the SAE World Congress, International Power Electronics Conference, International Society of Automotive Transportation and Technology, IEEE Workshop on Power Electronics in Transportation and the first international congress on "42-V PowerNet: The First Solutions". He was the moderator for the SSA 42-V Executive Panel session entitled, Impact of the Global Economy on the Implementation of 42-Volt Electrical Systems, held during the SAE 2001 World Congress. Global journalists from England, France, Germany and the USA also have interviewed Traub for his technical expertise and insight.

Currently, Traub holds the position of chairman of the 42-V Battery Connection System Specification Workgroup, a multi-national standards workgroup of nine vehicle manufacturers, nine battery suppliers and nineteen connection companies. He is a member of the MIT/Industry Consortium on Advanced Automotive Electrical/Electronic Components and Systems (52 multi-national companies). He is also the chairman of the SAE 42V Advisory Committee.

Traub began his career at the General Motors Research Laboratories in 1967 as a senior engineer in the electrical engineering department, where he became the holder of four U.S. patents and numerous research reports/publications in the areas of automotive multiplexing, large industrial drive systems, electric cars and automotive safety/security systems.

In 1978, Traub transferred to the former Packard Electric Division of GM in Warren, Ohio. His promotion to senior staff engineer in 1990 resulted in his assignment as head of the Systems Development Center. In 1996, Traub was appointed technology integration manager at Delphi Automotive Systems, Packard Electric Division. Traub received his bachelor's degree in electrical engineering from Valparaiso University and his master's degree in electrical engineering from Michigan State University.

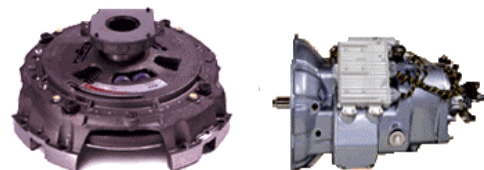
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The SAE Sections Board and the Fort Wayne Section
are pleased to host an exciting Professional Development telephone/webcast:

**"The 42V Automotive Electrical System:
Why Your Future Car Will Never be the Same Again."**

When: Friday, March 22, 2002, 11:30 a.m. – 1:00 p.m., EST.

Where: International Truck and Engine Corporation
2911 Meyer Road
Fort Wayne, IN 46801

Electrical power demand in motor vehicles is expected to significantly exceed the four to five percent annual growth rate that has been characteristic over the past two decades. This forecasted growth will quickly exceed the capability of the conventional 14V power generation and distribution system. A 42 volt electrical system is rapidly gaining worldwide consensus as the next generation automotive electrical system.

This 90-minute telephone/webcast will examine the new automobile features that are increasing the demands of electrical systems, address vehicle architecture, and comment on major technical challenges that must be met to assure cost effective and reliable implementation of a 42-volt electrical system.

The event will feature two guest speakers, both experts in the emerging field of 42V technology: Paul Nicastrì, Project Leader at Ford Motor Company's Scientific Research Lab, and Norman L. Traub, Director of 42 Volt Initiatives for the SAE Strategic Alliance. Additionally, the event will feature interactive question-and-answer sessions and instant polling. Audio portions will be presented via telephone; presentation graphics will be webcast simultaneously.

***Objectives:**

This program will provide an overview of the rationale, design and technical issues associated with 42 volt electrical systems. It is structured as a compact, low cost, interactive discussion and is intended for those interested in learning the basics of this important new technology. You will:

- Receive an overview of 42 volt electrical systems
- Gain insight into the reasons for the higher voltage proposal
- Learn about the impact to the electrical architecture
- Identify the major technical challenges associated with the conversion to 42 volts
- Raise questions and participate in discussion on 42 volt electrical systems



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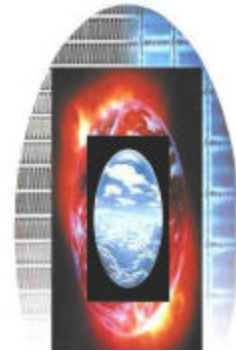
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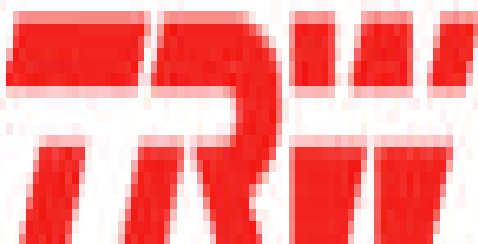
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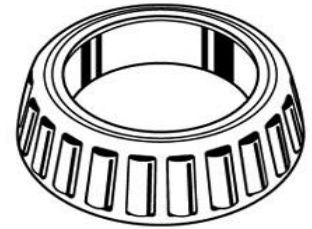
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