

Southeastern Michigan Section



ASME International

<http://sems.asme.org>



Section Newsletter, October 2003



2003-04 SEMS Officer Team

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Tom Libertiny 248-373-2500 libertinyt@asme.org

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Upcoming Events

“42 Volt Automotive Electrical Systems”

Date: Wednesday, 8 October 2003
Time: 6:30 – 8:30 pm (*Light Hors D’Ouevres*)
Location: President’s Conference Center
Lawrence Technological University
1st drive west of the LTU entrance off 10 Mile Road

RSVP: Howard Berkof E-Mail: berkofh@asme.org
Phone: (585) 259-5150

For several years there has been talk of automotive electrical systems going from 12 volt to 42 volt. Why the change after all the years of 12 volt? What's driving this? What are the advantages? Who's making the change? How will this affect the cars that we buy and drive? Will they cost more? Will the performance or features change? What is happening with this initiative? Interested in finding out about this? Come to the October 8, 2003 meeting and find out. Talking about these issues will be Norman Traub, currently Director of Electrical Initiatives for the Society of Automotive Engineers International. Mr. Traub has extensive experience in 42 volt over his career at General Motors Research Laboratories, the former Packard Electric Division of GM, and Delphi Automotive Systems. Mr. Traub's complete biography is on page 2.

“Young Engineers Forum”

Saturday, October 11 . . . see page 4-5 for details

“November Meeting”

Tuesday, November 11 . . . Speaker & Location TBD

“December Recognition Banquet”

The past several years have seen many people lose their jobs. Most look, with varying degrees of success, for a new job, often at a lower pay rate than the one they left. Rich Sheridan, when he lost his management position decided to take a different approach. Rich became an entrepreneur and started his own company, Menlo Innovations. Two years later he was featured on the cover of the May 2003 edition of Forbes Magazine. How did he accomplish this remarkable achievement? Hear about it as he tells his own story at our December 10, 2003 dinner meeting.

Message from the Chair

Dear Members,

As the weather cools and the fall season starts many of you will also become actively involved in the start of many other activities: football, school, and your kids' activities. Similarly, I hope that as you continue through the start of the year, you'll also think about including ASME as part of your activities. One of our goals for this year is to increase our member participation. ASME has many great things to offer our members such as networking, seminars for helping your business, personal growth and improvement, and much more. Our events and schedule for this year are very aggressive, and I hope that you will take the time to participate in the local section.

If there is something that you are interested in listening or seeing and we have not planned it in our upcoming events please let us know. We welcome any and all feedback that will help us make this section something that you are interested in.

Coming up in October is our second meeting, featuring Norm Traub from Electrical Initiatives at SAE. He will discuss the important issue of the 42 Volt battery systems in vehicles. We are also hosting our First Young Engineers Forum at Lawrence Technological University on October 11. There is an awesome line-up of speakers and I hope to see you there!

ASME is also starting again a new year. We had a dedicated crew that attended our first meeting with Sharon White of Unlimited Pathways, LLC. Her presentation on "Help! My Project Has Kidnapped My Life" taught the group about unique techniques to use that will assist us engineers in bringing our work projects to conclusion and to reclaim our lives. Her motivated speech taught us the skills necessary for time and project management. The group also shared with us their interests in future events and suggestions for upcoming events.

Please share with me your thoughts and suggestions that will make the Southeastern Michigan Section of ASME a great success.

Sincerely,
Rebecca King (rhk77@yahoo.com)

Advanced Preview: Homeland Security Forum

"How can mid-size and small engineering firms obtain business by working with the Department of Homeland Security?"

ASME's Southeastern Michigan Section and Board on Government Relations have teamed up to host a dinner meeting on programs at the newly-formed Department of Homeland Security (DHS). The key issue that will be addressed: How local engineering firms can obtain contracts from the U.S. government and their Tier 1 suppliers.

Two years after the tragedy of September 11th, Homeland Security has become one of the largest programs in U.S. history. Although long-range planning continues, we've entered the implementation stage and engineering suppliers are needed. As with many large federal agencies, obtaining key government and industry contracts as well as understanding how to drive through the myriad paperwork requirements is daunting. This program was designed to answer those questions as well as to answer the underlying question related to membership in the ASME: "What's in it for me?" As an ASME member, you have the opportunity to participate in this program and to find out about opportunities to bring more business to your company.



Norman L. Traub

Director of Electrical Initiatives

*SAE International
Troy, Michigan*

Norman L. Traub was named Director of 42 Volt Initiatives for SAE International on February 1, 2001. He was subsequently named Director of Electrical Initiatives in February, 2003.

Traub has lectured extensively on 42V electrical systems, including the SAE World Congress, International Power Electronics Conference, International Society of Automotive Transportation and Technology, IEEE Workshop on Power Electronics in Transportation and two international congresses on 42-V PowerNet. He was the moderator for 42-V Executive Panel sessions held during SAE World Congresses in 2001, 2002 and 2003. 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 vehicle manufacturers, battery suppliers and connection companies. He is a member of the MIT/Industry Consortium on Advanced Automotive Electrical/Electronic Components and Systems (50 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.

Continued on page 3 . . .

Our program was approved by the ASME Board of Government Relations through their Critical Asset Protection Initiative (CAPI). ASME is a key leader in the homeland security arena. We've partnered with other major engineering organizations including the Civil Engineering Research Foundation, the American Society of Civil Engineers and the National Institute of Standards and Technology.

ASME Southeastern Michigan Section is planning a dinner during the spring of 2004 that will outline what you need to do in order to bid on contracts at DHS. Both industry and government will be represented at this program and will participate in a question and answer period.

What's In It for Me?

- Executives and owners of mid-size and small engineering firms have the opportunity to build and diversify their client base to include this growing business segment.
- It's an excellent networking opportunity with other industry members and our government.
- It's your opportunity to put engineering firms in a leadership position during this critical initiative.

Tom Libertiny (libertinyt@asme.org)

ASME Volunteer Opportunities

I often talk with engineers about community service and the typical response from non-volunteers is: "I wish I could, but I just don't have time." Everyone has understandable excuses including work hours, family, and school. But the bottom line is that you will NEVER have enough time if you don't make it. Just a few hours per month can make a tremendous difference in the lives of others while having minimal time impact on yours.

Most employers should not have a problem letting you leave for a few hours of community service if you ask in advance. You can even present it as a PR opportunity by taking pictures for a company newsletter or getting your company logo printed on volunteer materials. If requested, SEMS will be happy to assist you by providing a letter to give to your employer and you will receive a certificate of appreciation for your efforts.

Volunteer opportunities for engineers in the Detroit area are plentiful. Every month, we will present new opportunities in this column. You will find two that involve working with children in this edition. Just a few hours encouraging and inspiring a child can have profound ripple effects that change the child's future goals forever.

If these options do not appeal to you, I will be happy to help you find other opportunities that better match your interests. I have had the pleasure of working with many great organizations in the area including *Big Brothers Big Sisters*, *Habitat for Humanity*, *Camp Quality* (a summer camp for children with cancer), and *Detroit Executive Service Corps* (providing volunteer consulting services and mentors to nonprofit and educational leaders).

So go ahead and make a difference. The life you change most may very well be your own!

Kent Alverson (kwa@comcast.net)

Opportunity: Engineers in the Classroom Program

Minimum Commitment: 1-hour classroom presentation plus preparation time

Location: Throughout Detroit area

Description: As part of our community outreach initiatives, the SEMS is pleased to announce commencement of the Engineers in the Classroom program. This exciting opportunity allows members of our section to educate grade school students throughout the metro Detroit area about the field of engineering. Volunteers prepare a presentation on engineering or related fields using available materials and/or their own ideas.

In addition, if you know of a school that would be interested in participating, please pass that information along.

If you are interested in participating, please provide the following information to Kent Alverson (kwa@comcast.net):

Name:

Phone Number:

Your career area/title:

Geographic Location Preference:

Student Age preference:

Availability (time of day):

Opportunity: First Lego League

Minimum Commitment: 1 hour for 6 weeks

Location: Throughout the city of Detroit

Description: SEMS is pleased to support local teams participating in the First Lego League 2003 competition "Mission to Mars"

From the FLL website:

"Inspire children around the world to work together, use their creativity and engage in real world problems and opportunities. Each year in September, FLL teams internationally accept the Challenge, which engages them in hands-on robotics design and authentic scientific research. After 8 intense weeks, the FLL season culminates at high-energy, sports-like tournaments. FLL is a worldwide program for children created in a partnership between FIRST and the LEGO Company."

As a team mentor, you must commit to a minimum of one hour per week for 6 weeks acting as a technical advisor to a team of middle school students led by a teacher advisor. They will be designing and programming electro-mechanical systems using Lego kits. The regional tournaments are held at the end of November. Most of the teams meet after school and the schools are located throughout the city of Detroit.

This is a rewarding experience for all involved and you will be impressed by the creativity, enthusiasm and problem solving abilities of these young students.

For more information, check out <http://www.firstlegoleague.org/>

SOUTHEASTERN MICHIGAN SECTION OF ASME

Proudly Presents the 2003

YOUNG ENGINEERS FORUM

You are cordially invited to attend the
Detroit Area
YOUNG ENGINEERS FORUM

To be held on
Saturday, October 11, 2003

Lawrence Technological University
21000 West 10 Mile Rd.
Southfield, MI 48075
(248) 204-4000
Technology Building, Room T-210
<http://www.ltu.edu/maps>

Breakfast & Registration at 8:30 AM
Lunch Provided
Keynote Speaker
Conclusion & Raffle at 3:30pm

For more information, please contact:
Howard Berkof
berkofh@asme.org
(585) 259-5150



Keynote Speaker

Danny Kellermeyer, Professional Race Car Driver

GM Reliability Engineer, and now champion race car driver, Danny will discuss engineering and auto racing. Danny has been an active builder, crew chief, owner, or driver every year since 1985. In 189 career races, Danny has completed 182 and placed 91% in the top three.

ABOUT THE YOUNG ENGINEERS FORUM

The Young Engineers Forum (YEF) is a program designed to enhance your ability to compete in an ever more demanding and changing global market place. Through networking opportunities and practical, real-world advice from established engineers and career planning specialists, you will learn how to prepare for a successful and rewarding career. Please join us for this unique opportunity to gather advice, tips and insights on getting the most out of your engineering career.

WHY SHOULD YOU ATTEND?

- Get practical, real-world advice about your career and life issues
- Learn how to prepare for future trends and a rapidly changing workplace
- Benefit from accounts of real-life experiences and success stories
- Learn how to identify and be aware of the resources available to you
- Meet and network with students and practicing engineers

THE PROGRAM

Moderator, Howard Berkof, Ingersoll-Rand Company
(Former SSC Rep, Region III and currently on Early Career Committee)

ENTREPRENEURSHIP & PATENTS

Arnie Leemon, Inventor/Consultant, Jacksson Enterprises

Arnie Leemon is an inventor/consultant, who takes an idea or concept through the necessary steps from conception to fruition. Those steps include legal protection, visualization (through prototyping or artist rendering) market analysis, production and manufacturing costs, and facilitation and presentation to industry for license or sale. If the idea or concept can be enhanced to further its presentability to industry, the improvement is assigned to the inventor, guaranteeing their complete ownership of their intellectual property.

FINANCIAL PLANNING

Tom Libertiny, Associate Vice President, Raymond James & Associates

Tom Libertiny is an Associate Vice President of Investments with Raymond James & Associates and an experienced Financial Advisor. He pulls from his background in the fields of corporate finance and engineering, as well as the insight he has from building and financing businesses through investment banking and venture capital to assist his clients. His business and educational background includes over a decade of service in financial and engineering capacities from startup semiconductor and bio-tech based ventures to multi-billion dollar international conglomerates. Tom is an author and frequent speaker at finance and technology engagements and is recognized for his professional acumen and achievements by *Who's Who in Finance and Industry* and *Who's Who in the World*, among other prestigious publications. He holds both an MBA and bachelor's degree in Mechanical Engineering.

PROJECT MANAGEMENT FOR ENGINEERS

Tom Davis, Quality Assurance Manager, Trilogy Plastics Inc.

Tom Davis is a very popular presenter from the ASME's Engineering & Technology Management Group (E&TMG), Tom has thirty plus years experience in performing and managing engineering, manufacturing technology, and quality activities. His experience includes Project Management of manufacturing development, engineering, and capital equipment installation projects. More recently his focus has involved developing and implementing ISO 9000 Quality Systems, Continuous Improvement, and related training programs. Tom has given many Project Engineering / Management presentations at National Manufacturing Week events and ASME Section and Regional Meetings.

JOB HUNTING TECHNIQUES

Walt Tarrow, Employment Services, JVS

As a career and employment consultant and coach, Walt Tarrow has provided employment development services to thousands of career changers during the past twenty years. He continues to assist a wide range of individuals, from entry-level job seekers to corporate executives, with learning and putting into practice the tools needed to advance your career. Currently providing these services through a community-based human resource agency, JVS, Walt operates a corporate and professional level program called Corporate Opportunities. He is also on the board of the Michigan Employment Counselors Association and has presented his techniques for career changes and job searches at numerous conferences and workshops.

INDUSTRY PANEL DISCUSSION

REGISTRATION

The registration fee schedule is listed below. The event is limited to 100 students and young engineers. Please mail your checks for receipt by 1 October 2003 for your reservations to the following address:

ASME Southeastern Michigan Section
691 N. Squirrel Road Suite 105
Auburn Hills, MI 48326

	<u>Early Bird</u>	<u>After Oct. 1</u>
Students ASME Members	\$10.00	\$15.00
Student Non-Members (Fee includes ASME student membership)	\$35.00	\$40.00
Professional ASME Members	\$20.00	\$25.00
Professional Non-Members	\$25.00	\$40.00

<http://sems.asme.org>

Return Address
5305 Wing Lake Rd.
Bloomfield Hills, MI 48302

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ROYAL OAK, MI

Check out the **new** SEMS website for upcoming events, newsletters, & helpful links at <http://sems.asme.org>
Coming soon: Officer Biographies, Job Postings, Section Committees, & Volunteer Opportunities

SEMS Newsletter Gets a Face Lift

SEMS is proud to unveil the new 21st century looking section newsletter. Complete with color graphics, a beautiful Detroit skyline, and color photographs, the attractive newsletter is a can't miss read for section members. As printing and mailing costs continue to rise as a percentage of the section's operating budget, the section has decided to slowly phase out mailed copies through the remainder of 2003. With the advancement of technology, nearly every member has an e-mail account in which we encourage you to register with ASME so that you can receive e-mail newsletter notifications, as well as local section event reminders, and national opportunities within ASME. Please register your e-mail with ASME by calling 1-800-THE-ASME, or e-mailing Sheryl Miller at the Regional office, millers@asme.org.

"Stump the Engineer" - Monthly Trivia Question

In an effort to encourage members to visit the website and read the newsletters, a monthly Engineering Trivia Contest has been established. Each month a question will appear in the newsletter. Participants must go to the website and log-in their answer, along with their e-mail address. A winner will be chosen each month and receive a free ASME polo shirt. At the end of the year, a grand prize winner will be drawn from all the correct answers. The grand prize will be a new state-of-the-art Palm Pilot.

October Trivia Question

Who was the German mechanical engineer that designed and in 1885 built the world's first practical automobile to be powered by an internal-combustion engine?

To answer this question and enter the prize drawing, go to <http://sems.asme.org/newsletter> and Click on **"Stump the Engineer" – Monthly Trivia Question**