

Section Web Site: www.sae-arizona.org - Sign up for your newsletter on our website.

HIGHLIGHTS...

- History of ASU East
- Message from the Chair
- Recap of January Meeting
- Advanced Electronics for Trucks
- MiniBaja Update
- Electronic Newsletter

Dinner Presentation...

Arizona State University East

Presented by
Dr. Gerald S. Jakubowski



Arizona State University, East is located on the former Williams Air Force Base in Southeast Mesa some 23 miles from the ASU Tempe campus. The East campus is in the process of transforming itself into a polytechnic institute. Dr. Gerald S. Jakubowski, Provost of the East campus and Vice President of ASU, will present the history of the East campus to its present state and the future plans of the campus as it transitions to ASU at the polytechnic campus.

ASU East currently offers 27 degree programs in its three major academic units. Among the newest programs are the B.S. and B.A. in Human Health Studies, the B.S. and M.S. in Exercise and Wellness, B.S. and M.S. in Applied Psychology, B.S. in Business Administration, B.S. in Applied Biological Sciences and the B.S. and M.S. in Nutrition.

The College of Technology and Applied Sciences offers baccalaureate degree, graduate degree and non-degree programs in technological fields that support professional careers, lifelong learning and professional development. The faculty contributes to the full range of scholarly activities, with focused attention on the development of each student through high quality education processes. Special emphasis is placed on education, research and professional service processes that directly meet the needs of the community and society.

Dr. Gerald S. Jakubowski

Dr. Gerald S. Jakubowski was appointed Provost of Arizona State University East and Vice President of ASU in July 2004. From 1990 until 2004 he served as Dean of the College of Science and Engineering at Loyola Marymount University in Los Angeles. Dr. Jakubowski, a licensed professional engineer, has been a professor of mechanical engineering for over twenty-five years during which time he has taught and conducted research in the areas of thermodynamics, fluid mechanics, heat transfer and energy. He has published articles in a variety of academic and professional publications and has made numerous presentations and speeches to various organizations. He is a past National President of the American Society for Engineering Education and he currently serves as Vice Chair of Operations for the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. He has also served two terms on the SAE Board of Directors. A native of Toledo, Ohio, he received his BS, MS and PhD degrees in mechanical engineering all from the University of Toledo. He also completed Carnegie-Mellon University's College Management Program offered through the H. John Heinz III School of Public Policy and Management. Dr. Jakubowski also held faculty and administrative positions at the University of South Alabama, the University of Toledo and the University of Memphis.



Coffee Talk...

Top-Secret Subject

Our Coffee Talk subject was still top-secret at the time this newsletter went to press. It is such an excellent presentation that it cannot be publically announced prior to the meeting, out of fear that we'll be overwhelmed with attendees. So we're keeping it quiet until the evening of the meeting. (Translation... we have several options and the details could not be firmed up in time for publication, but it'll be great!)

DATE	TIME	LOCATION	COST	With Dinner	Presentation Only
February 17	Social	- 6:00 pm	Crowne Plaza Hotel (Holiday Inn)	Members - \$20	\$10
	Dinner	- 7:00 pm	44th St. & Washington	Guests - \$25	\$10
	Presentation	- 8:00 pm	602-273-7778	Students - \$10	no charge

RSVP by 2:00 pm Monday February 14. Call Bob Riley: 623-872-3475

Message from the Chair

As I write this message, the Board is working hard to find new presentations to fill the rest of the season. Due to some unfortunate circumstances we had a few cancellations that are necessitating making new contacts and arrangements for the next few months.



Kevin Willson in Dodge Viper.

Though the cancellations were unexpected, I thank the Board for their efforts in getting us back on track without too much difficulty.

From what I hear, the January meeting was a great success. Thanks to Kim Magyar for being able to step in and for giving a wonderful presentation on product liability. John Leinonen's presentation on the History of SAE and John Lester's history of the Arizona-Nevada section I hear were also very well received and I thank them for their willingness to come and share with the rest of the section.

For February we are privileged to have Gerald S. Jakubowski presenting for us. Gerald is the Provost for ASU East and a former SAE Board Member. We are also still looking into possible coffee-talk guests but have not confirmed any as of yet. As soon as we have confirmed coffee-talk speakers, we will post them on the section website, www.saearizona.org.

Coming up the first week in June is the Mini-Baja West competition. Elsewhere in this newsletter you will find information regarding scheduling and who to contact concerning volunteering your time to this exciting event. For this year, to coincide with SAE's 100th anniversary, the endurance competition will be a 100 mile event. This will require many volunteers to work the course, judge events and evaluate design presentations. I would like to encourage all of the section members to sign up and volunteer for this event. Not only will it be a lot of fun but I am sure you will run into some talented individuals from the student sections who might be a good fit for the company you work for. For those members who are retired, it would be an excellent opportunity to interact with the student members and even pass along something that you have learned that could help them. Please keep this in mind as you make plans for the next couple of months. The event is to be held June 1-4 in Tinaja Hills, AZ, south of Tucson at the Caterpillar Proving Grounds.

Thank you for your continued support of the Arizona-Nevada section of the SAE. We hope to see you at our upcoming meeting on February 17th.

Kevin Willson
Section Chair

Recap of January Meeting

by Allan Watts

January 20 marked, to the day, the 100th anniversary of SAE. To celebrate this occasion, former SAE president John Leinonen provided a very interesting coffee talk regarding the history of SAE and also told us about what SAE international is doing this year to mark the occasion. SAE was originally the Society of Automobile Engineers, absorbed the Society of Aeronautical Engineers, and became the Society of Automotive Engineers. We appreciate Mr. Leinonen's presentation very much.



SAE 100-Year Anniversary cake was a special treat made specially for our Section

On a more local note, the Arizona/Nevada

section is fortunate enough to have serving on the Board, two of the founding members of the Section, Mr. Howard Daudet and Mr. John Lester. As a tie in to the centennial of SAE, Mr. Lester spoke regarding the formation of the Arizona/Nevada Section in 1963. The founders were originally only able to find 45 members in Arizona, but the group quickly grew to the 100 required to form a Section. SAE was well received in Arizona in the early years of the Section, and meeting attendance was often around 100 attendees.



Left to right, former SAE International President, John Leinonen, Section Vice Chair, Allan Watts, and founding members Howard Daudet and John Lester.

As the feature presentation at the January meeting, Snell & Wilmer attorney Kim S. Magyar spoke on products liability. Ms. Magyar's practice is concentrated in products liability, and she has represented a number of products manufacturers in products liability actions. In fact, Ms. Magyar and another attorney from Snell & Wilmer tried and won the first Ford Expedition rollover case on behalf of Ford Motor Company. Ms. Magyar provided a very interesting and informative presentation on how the law is supposed to work, and how it actually works regarding liability for accidents involving products. She explained that products liability may



Kim S. Magyar, an attorney at Snell & Wilmer, receives a handshake from Section Vice Chair Allan Watts for her outstanding presentation on products liability.

be based on manufacturing defects, design defects or warning defects, and automobile cases may involve alleged defects such as instability, lack of crashworthiness, and inadequate restraint of occupants. Ms. Magyar described what engineers and business managers should do to reduce the risk of the company being held liable for harm allegedly caused by products, including keeping records of solutions that are implemented to correct problems and keeping records of safety tests that were passed. Ms. Magyar's presentation was very timely and well received, and we appreciate it very much.

Advanced Electronics Coming On Heavy Trucks

By Max Rumbaugh



Our nation's commitment to improve homeland security has accelerated the application of advanced electronics to heavy trucks and operating procedures of motor carriers. Commercial vehicle safety, their security and motor car-

rier operating efficiency are all interdependent.

Arizona, as a border state, provided a fitting venue for the SAE seminar on Enhancing Heavy Truck Safety, Security and Efficiency last December. The presenters and audience came from all corners of the nation, but representative of local commercial vehicle operators also attended and provided unique customer input on the technology and product development.

Security and transportation government experts noted that 50% of heavy truck accidents are a result of rear end collisions, lane changing/merging and driving off the highway. The application of electronic systems under the Intelligent Vehicle Initiative (IVI) are pointed on reducing these accidents, the resulting fatalities and hazardous material release.

Industry representatives noted that collision avoidance systems, run-off-road warnings and lane tracking technology is currently available. The technology is rapidly moving from the development state into real commercial vehicle usage. Another developmental focus is on integrating these systems into the vehicle design rather than having them as add on options.

Pilot projects are underway on truck tracking, intelligent road/railroad information gathering and suspicious incident analysis. Dan Murray, director of research of the American Transportation Research Institute, noted two restraints for implementing some technology, namely: no standards for interoperability of smart cards and too many formats for the interoperability of electronic data transmission.

Motor carrier companies need the systems to be cost effective. Their measure of this is whether the added costs of the electronics off-set or are less than the operating savings from using the technology. Surveys of operators of the technology support the premise that truck drivers will not resist the use of this technology as long as it benefits them and their safety.

In December the federal government was receiving comments on the use of on-board electronic recorders. Industry is working on drowsy driver warning, easing border crossing to reduce costs yet assure regulatory compliance, and truck tracking for out-of-route identification. The focus is also on providing improvements in security and safety while also assuring the costs of the new systems off-set operating costs in the new environment.

Members in Arizona benefit from the popularity of the region for SAE seminars. Updates on developing technology and industry viewpoints presented at local seminars are available cost effectively. Aerospace and electronic experts in Arizona also have the opportunity to experience how their advanced technology can be applied to ground vehicles without traveling long distances. This seminar was a prime example of these benefits delivered to SAE members in Arizona and Nevada.

Mini Baja West Update



The dates for the Mini Baja West event have been set. June 1-4, 2005 is the time.

Caterpillar Tinaja Hills Training Center in Green Valley, Arizona is the place. And the SAE needs your help. The following volunteer positions are available:

Technical Inspector - Examine entries for compliance with the rules.

Design Judge - Judge the teams' designs and evaluate design reports.

Presentation Judge - Judge the teams' presentation skills.

Dynamic Events Crew - Operate and Marshall the dynamic events.

Endurance Event Crew - Operate and Marshall the 100 mile endurance event.

Scorekeeper - Assemble event records, determine scores and declare the winners.

General Event Crew - Fill in to help keep the event running smoothly.

Continued.....

Meeting Schedule

February 17	- ASU East
March 17	- Open
April 21	- The Boeing 7E7
May 19	- Automotive Tire Technology & Testing

Mini-Baja Continued....

To volunteer, go to <http://www.sae.org/exdomains/minibaja100/volunteer.htm> or visit the student competition website at <http://students.sae.org/competitions/minibaja/west/>. Or send a message to: derek.logan@email.sae.org

Sign up to Receive Your Newsletter by Email

To subscribe, go to: <http://www.sae.arizona.org/newsletter/> and click on the appropriate link.

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