

Section Web Site: www.sae-arizona.org
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On Summer Hiatus
 NEXT MEETING SEPT 16

HIGHLIGHTS...



- The New Packard Project
- September Coffee Talk
- Message from Outgoing Chair
- Message from Incoming Chair
- Recap of May Meeting
- New Officers
- AZ Section Commitment
- Governing Board Meetings
- Electronic Newsletter
- In Memory

Dinner Presentation...

The New Packard Project

Presented by
 Roy Gullickson

Packard was one of the finest automobiles in the early years of motoring, before its demise in 1956. If Roy Gullickson has anything to say about it, the ensuing years will only be a temporary gap in production. For the first meeting of our new season, we will have a look at the New Packard that Roy has in the works.

Packard and the vision for the future - and the engineering prototype will be on display.

The New Packard is unique in that there is no automobile on the market today with comparable specifications - regardless of price.

Public presentations of the New Packard, such as at Pebble Beach last August, have met with enthusiastic approval by teenagers, twenty-somethings, people who have Packards, or remember Packards, and all ages between.



Roy Gullickson stands beside the New Packard Prototype that will be on display at the September meeting.

'Ask The Man Who Owns One' is one of the enduring legacies of the original Packard Motor Car Company. Others are the steering wheel (first use was on Packards in 1901) and first use of hypoid differential gears. Also, first to market with refrigerated air conditioning in 1940.

The September presentation will highlight the New

September CoffeeTalk...

1929 Packard Limousine

by William W. Spraggins

The Coffee Talk speaker for the September meeting will be William W. Spraggins. Bill is a retired engineer with AlliedSignal Aerospace Corp (now Honeywell). He owns a 1929, Model 633, 7 passenger Packard Limousine, which has been meticulously restored. It is powered by a straight eight engine. Bill will speak on the restoration process, and will have the car on display.



DATE	TIME	LOCATION	COST
On Summer Hiatus	Social - 6:00 pm	Holiday Inn (Phoenix Airport)	Students - \$10
NEXT MEETING	Dinner - 7:00 pm	44th St. & Washington	Members - \$18
September 16	Presentation - 8:00 pm	602-273-7778	Guests - \$19

Message From Outgoing Chair

Summer is upon us in force now and I trust many of you are staying out of the heat-whether that means you're spending lots of time indoors, traveling on vacation, or spending time in your homes in other parts of the country.

We closed out our 2003-2004 year with a great presentation on the new Nissan Titan full-size truck by Larry Dominique of Nissan. Chris Leppo from Selig Industries gave us an informative coffee talk as well, sharing details from his company's recovery parts washing system. A special thanks to Derek and Ana Logan for inviting and coordinating both of these presentations. I was pleased at the great attendance, including some members from ASME. It was also great to have that big black truck in the room for all to survey.

In the summer months ahead, the board will be meeting regularly to plan next year's dinner meetings. If you have an idea for a presentation, please contact one of the board members listed in the newsletter with your thoughts. Kevin Willson is replacing me as chair next year. Please give him your full support in the months ahead.

This is the last newsletter you will receive until early September. Enjoy your summer and we look forward to seeing you in September!

Todd Zuercher, Immediate Past Chair



Our thanks to Todd Zuercher

Message From Incoming Chair

It is my great privilege to be serving as Chair of the Arizona-Nevada Section of the SAE for the 2004-2005 season as SAE International enters its 100th year as a Society dedicated to the advancement of all things Automotive. Among all of the celebrations that will be happening around the country, showcasing the achievements of the past 100 years, the Arizona-Nevada Section will have the opportunity to host the 100-mile Mini-Baja competition this year. Plans are already under way with the Section Board and your participation as section members is welcome. For more information on SAE 100th anniversary happenings, visit the SAE website at www.sae.org and look through the section marked SAE 100.

Over the next few months the Board will be planning Dinner Meetings and Tours for the coming season. As shown on the front page we already have September locked in with a presentation of the rebirth of the Packard as well as a display of a well restored example of a 1929 Packard limousine. Also in the works is a presentation on the new Ford Escape



Kevin Willson in Dodge Viper.

Recap of May Meeting by Derek Logan

Larry Dominique, Chief Product Specialist for Titan at Nissan, gave a detailed presentation on Nissan's bold entry into the full-size truck market with the introduction of the Nissan Titan. Larry explained how Nissan aimed the Titan at the "Heart of the Market" by introducing only King & Crew Cab models (80% of market) and with a V8 engine (92% of market). Nissan did extensive market and owner research to make sure they would build the right truck. -And it looks like they really hit the mark! Nissan started with core needs: Size, HP/torque, payload and towing; they then looked at future needs: NVH, ride comfort, etc.; and, finally, Nissan came up with unmet needs: 168° king cab door, Utilitrac channels, spray-in bedliner, bed-side storage, tailgate illumination, fold-flat front passenger seat, and more. Nissan's first-time entry into the full-size truck market met the customer's needs and is the first true full-size pick-up built by an import.

The Titan's key features are class-leading head and leg room, class-leading towing capacity, and segment exclusive 180-degree door (on King Cab models). If anyone has owned a King (or extended) Cab pickup



Chair, Todd Zuercher (right), thanks Larry Dominique for an outstanding presentation.

(or extended) Cab pickup truck, he/she can certainly appreciate having a 180° opening of the rear side doors. I, myself, have been caught in between the open front and rear side doors of an extended cab pickup and it was not easy to get everyone out of the pickup truck; we had to exit one at a time, closing the rear door for each person to pass between the pickup and the car parked next to it. Hats off to Larry Dominique for making a door open almost a full 180°!

Chris Leppo, Director, Marketing and Operations at Selig Industries, provided a very informative presentation on the benefits of a "recovery" parts washing system vs. one that requires the solvent be replaced on a periodic basis. The recovery system uses a filter to keep the solvent clean all the time. Selig's unique 60-90 mesh Attapulgate clay-based filtration material is impregnated with Quaternary ammonium and can hold 25 times its weight in adsorption in C20+ hydrocarbons. The filter has 50-99% efficiency in removing particles between 1-3 microns, and over 99.9% efficiency in removing particles 4 microns and larger. The result is a consistently clean solvent during the entire operation of the system, and no need to replace the solvent on a periodic basis.

Chris' comparison of the Recovery Parts Washer's filtration system to that of a swimming pool's filtration system really made me think about why many of us have systems that

Continued on back page....

need replacement of the entire fluid on a periodic basis. Could you imagine replacing the water in your swimming pool every month? --Let alone having to swim in one-month-old water!?! Good job, Chris! Next time, maybe we can get a main presentation on some of Selig's new lubricants!



Chris Leppo (left) and Derek Logan. Chris provided a great Coffee Talk about Selig Industries' recovery parts washing system.

SAE Arizona Section Comittment

In the 2003 J.D. Power's survey of SAE members, the SAE Arizona-Nevada Section achieved a 90% satisfaction rating, placing the section amongst the highest group of SAE's 71 sections.

The Arizona Section is committed to bringing educational opportunities to mobility engineers. Programs are selected to be timely and relevant. Their delivery in Arizona permits aerospace and automotive engineers to obtain ongoing education without overnight travel and without expensive registration fees.

Over the past eighteen months, SAE Arizona programs have covered such important topics as:

Intellectual Property and Patents
Honeywell AS900 Turbojet
Quality and Six Sigma
Hybrid Electric Vehicles
Advances on Environmentally Friendly Vehicle Air Conditioning Systems
Aerospace Executive Panel
42-Volt Automotive Electronic System
The New Nissan Titan, Full-Size Pickup
Telematics and Advanced Vehicle Electronics

Plan now to participate in the educational programs and activities planned for you here in Phoenix.

The officers of the SAE Arizona-Nevada Section are dedicated to providing you with cost-effective, educational programming. Your support and attendance at our local, high quality programs will pay dividends to you and your organization. Just a couple of hours a month will provide you with up-to-date technical information on your profession.

Governing Board Meetings

Members are invited to attend Governing Board meetings any time, and especially during the summer when new programs are being considered for the coming season. With the exception of the July 12 meeting, our Section Board meetings are held in a meeting room just off the lobby at Honeywell, located on the Southeast corner of 34th Street and Washington. Meetings begin at 4:30 pm. Remaining meeting dates are: July 12, July 26, August 9, and August 23.

The special July 12 meeting will be held at ASM America, located at 3440 East University Drive. This location was arranged to accommodate the extra time necessary for Brian Taylor's visit to our Section. Brian is from SAE Headquarters in Warrendale, and is here to discuss opportunities for cooperation between our Section and SAE International.

Board Members and Officers

By unanimous acclimation at May meeting, the following officers were elected to the AZ/NV Section Governing Board for the 2004-2005 membership year:

Chair:	Kevin Willson
Vice Chair:	Allan Watts
Secretary:	David Vasquez
Treasurer:	John Lester
Vice Chair-Student Activities:	Derek Logan
ANC Delegate:	Jeff Brown

The new board members' term began on June 1. In addition to these positions voted upon at the meeting, the following non-elected positions will be ably filled as well. Each of the following individuals (denoted by an asterisk '*') has agreed to accept the positions.

Vice-Chair-Rotorcraft:	Greg McCrea*
Vice Chair-Defense Products:	Dave Marsh*
Vice Chair-AWIM:	Weldon Bagley*
Vice Chair-Automobiles	Ken Ziesemer
Vice Chair-Aerospace Electronics:	Open
Arrangements Chair:	Paul Curry*
Assistant Chair-Students:	Howard Daudet*
Assistant Chair-AWIM:	Howard Daudet*
Immediate Past Chair:	Todd Zuercher*
Newsletter Editor:	Bob Riley*
Webmaster:	Dave Vasquez*

We anticipate the addition of several vice chairs will benefit the section in various ways, including selecting a good variety of dinner meeting topics for next year.



Just a few of our past and present Governing Board Members, from left to right: Max Rumbaugh, Jr., John Lester, Allan Watts, Dave Marsh, Kevin Willson, Todd Zuercher, Howard Daudet, Derek Logan, Bob Riley, Dave Vasquez.

Hybrid. Details for that presentation will be available on the section website (www.sae-arizona.org) when it is confirmed. We still have available dates for presentations and would welcome ideas or offers for interesting tours from the section members. Please feel free to contact any of the board members listed on the back page for ideas. With support of the members of this section, we will be able to continue bringing quality programs to the section for years to come.

At this time I would also like to thank Todd Zuercher for his dedication and hard work of the past year as our Immediate Past Chair. Todd will be continuing in service to the section by helping to update and consolidate the section mailing list in an effort to control our newsletter costs (It's a bigger job than you might think). If you get a chance to meet Todd at one of the upcoming meetings, thank him for the work of the past year and for his continued efforts on the Board.

Thanks again for your continued support of the Arizona-Nevada Section and we look forward to seeing you at the next meeting in September.

Kevin Willson, Chair, SAE Arizona-Nevada Section

Kevin Willson Chair 602-470-2646	Allan Watts Vice Chair 602-382-6267	Dave Vasquez Secretary idave@asu.edu	John Lester Treasurer 480-733-6532	Robert Riley Newsletter Editor 623-872-8010
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Meeting Schedule

Now on Summer Hiatus: See you September 16 for our first meeting of the new season

Sign up to Receive Your Newsletter by Email

We are making the transition to an electronic Newsletter. To subscribe, go to: <http://www.sae-arizona.org/newsletter/> and click on the appropriate link.

In Memory

June Roberts, P.E. has passed away. Mr. Roberts had a long and productive life in the field of engineering education. He began engineering studies at Kansas State. In fact, he was in school there when the Agricultural Engineering program began. The students' work and experiments formed the curriculum as there were no textbooks in the field. He became interested in fusion, and hybrid cars in the past few years. He was in his '90s.



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