



Happy Diwali !!!

SAEINDIA

NORTHERN SECTION

The Engineering Society
For Advancing Mobility
Land Sea Air and Space

Celebrating a decade of Knowledge Enhancement

From Vice Chairman's desk (AWIM)



SAE International embarked on a plan to help enhance skill of elementary students in the areas of science, technology, engineering and math's (STEM) skill of elementary students.

The program called "A World In Motion" (AWIM) comprises of three "modules" in its curriculum-Skimmer Regatta, Option Derby, and Can Crusher. The STEM program inculcates the basics of science and engineering in school students and helps to prepare the next generation of engineers.

In order to provide exposure to school students with the AWIM program in the North zone, SAENIS embarked on the "Jet Toy" program in 2009. In less than 2 years we have covered more than 2500 students under this program.

I am extremely happy to inform that the Regional Olympics were held at New Era Public School, Mayapuri, New Delhi on 7th. & 8th October 2011 to select the best 2 teams from 28 schools. This will be followed by the Regional Olympics in Chandigarh which will be held on 17th October 2011.

The AWIM Nationals are being held on 13th November, 2011 at New Delhi. The teams which will be selected at National Olympics will be competing in the International Olympics to be held at Detroit, Michigan in April 2012.

The Matt Miller Program is scheduled on 14th and 15th November which will take the AWIM program to the next level, by introducing The Gravity Cruiser and Motorized Toy Car.

I am grateful to the students, teachers and Industrial volunteers, who are the blood of AWIM program. This has been the most satisfying part of the year's program, and it is their commitment which has made all this possible. We are hopeful of reaching many more milestones and expanding our horizons further.

Rakesh Sood
Vice Chairman
AWIM, SAEINDIA



Automotive Day

Organized in Delhi Technological University, the seminar gave an insight into the area of steel making and there were presentations by the representatives in their respective areas of specialization.

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SAEINDIA Foundation Scholarships/Awards 2011

SAEINDIA announces SAEINDIA Foundation Scholarships and awards for the year 2011.

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TECH BUZZ



Adaptive Cruise Control (ACC)

It is a system that adjusts the vehicle speed and headway accordingly without any action on the part of the driver. It slows down the vehicle when another object is detected and reaccelerates when the road is clear.

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Upcoming events...

- "Efficycle", Chandigarh : 14th -16th October 2011
- "AWIM Regional Olympics 2011", Chandigarh : 17th October 2011

Automotive Day, 22nd September 2011, Delhi

The Automotive Day, organized by SAENIS and DTU, was conducted in Dr. B. R. Ambedkar Auditorium at the Delhi Technological University on the 22nd of September 2011, in the presence of Dr. P. B. Sharma, Vice Chancellor (D.T.U.) and Prof Dr. S. Maji and Dr. Samsheer along with representatives from MSIL and Tata Steel.

The event commenced with felicitation of the invitees which was followed by an opening note by Mr. Sanjay Thakar (GM, Maruti Suzuki and Vice Chairman, Conference & Communications, SAENIS). It was followed by an address by the Vice Chancellor, DTU. The session gave the students an insight into the various aspects of the automotive industry. Thereafter the technical

presentations started off with the introduction of Tata Steel group given by Mr. Saurabh Arya who also explained the Steel manufacturing process & the impact of climate change on steel. The final presentation given by Mr. Hitendra Pradhan (Tata Steel) delved into the future trends in Automotive Steels.

The event saw a turnout of close to 300 students. The seminar gave the students an opportunity to interact with the industry and gain valuable insight into the area of Steel making and its application in the automotive context. All-in-all the students found the seminar beneficial not only in terms of technical learning but also networking with the industry.

"Steel manufacturing process was explained along with the impact of climate change on it"

SAEINDIA Foundation Scholarships /Awards for 2011

SAEINDIA invites applications for the following Scholarships/Awards:

Kalpna Chawla Scholarship for Outstanding Women undergraduate Engineering SAE Student member

First Prize: Rs.15000/-

Second Prize: Rs.5000/-

Third Prize: Rs.2000/-

Last date for receipt of Applications by respective sections: 31st October 2011.

Section Scholarship allocated for the 5 sections (Southern, Northern, Western, Eastern, Bangalore) with Rs.72,000 allocated as the total Scholarship amount. The list of awardees (sent by the respective Sections) to reach Secretary SAEINDIA Foundation by 15th Nov. 2011

Student Paper Awards

Prof B.S Murthy Award in the area of Engine Fuel Efficiency and Emission Control

Myers-Uyehara Outstanding Student Paper Award for all areas of Automotive engineering except Engine Fuel Efficiency and Emissions to honor the memory of Professors Phil Myers and Otto Uyehara for their contribution to the growth of education, mobility technology, and the development of future technologists,.

Revathi Iyer Memorial Award for Excellence in Technical Writing to honor the memory of Ms.Revathi Iyer who was an excellent writer.

Applications may be sent to SAENIS office with full details.

TECH BUZZ

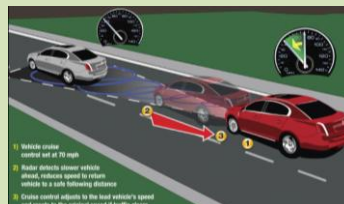
Adaptive Cruise Control (ACC)

Adaptive Cruise Control (ACC) technology improves the function of standard cruise control by automatically adjusting the vehicle speed and distance to the vehicle ahead. This is achieved using a long range radar sensor, a signal processor and longitudinal control of the vehicle. If the vehicle ahead slows down, or if another object is detected, the ACC adjusts vehicle speed and headway accordingly without any action on the part of the driver. Once the road is clear, the system will re-accelerate the vehicle back to the set speed. As with standard cruise control, the driver can override the system at any time. The current ACC systems are mainly comfort functions with a limited speed range. ACC with full speed range function will make the systems safer and even more convenient to use. If needed, the system will instead of turning off at a certain speed as is presently the case. This system will also recognize when the car in front starts to move again and will announce this to the driver, usually by acoustic signal. Then the vehicle will accelerate automatically to the pre-selected speed while maintaining the correct distance to the vehicle ahead and adjust to the tempo of the traffic.

Reference : http://ec.europa.eu/information_society/activities/intelligentcar/technologies/tech_02/index_en.htm

http://www.autopressnews.com/2009/01/ford/taurus_technology_graphics.shtml

<https://www.media.volvocars.com/ca/enhanced/en-ca/media/preview.aspx?mediaid=10780>



"ACC will automatically accelerate the vehicle while maintaining the correct distance to the vehicle."

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SAEINDIA invites applications for Kalpana Chawla Scholarships
for Outstanding Women undergraduate Engineering SAE
Student Members. Last Date: 31st October 2011 !

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Newsletter*