

Sampark

SAEINDIA
NORTHERN SECTION

The Engineering Society
For Advancing Mobility
Land Sea Air and Space

It gives me immense pleasure to see the way *Sampark* has grown. Every issue of the newsletter is eagerly awaited. *Sampark* has brought the SAENIS fraternity closer, by penetrating all barriers of communication, and thrives as a platform for information sharing and idea exchange among the members.

SAEINDIA is a platform where people can connect with new technologies, advancements and developments in the automobile market. The youth of today are our leaders of tomorrow. SAEINDIA has been at the forefront of providing opportunities for young students to showcase their capabilities by organizing competitive events like the AWIM, BAJA, SUPRA and EFFICYCLE. I am proud that volunteers from SAENIS have been playing a stellar role in organizing these events.

This year, after successfully organizing SIIMC 2012 and AWIM Olympics, the new Managing Committee and all volunteers from SAENIS are eagerly looking forward to organize the SAEINDIA SUPRA 2012 in September at the Buddh International Circuit, Greater Noida. This will be followed by the 3rd edition of Efficycle 2012 in October at Chandigarh. The Efficycle event aims to provide an opportunity for engineering students to innovate and design eco-friendly vehicles in India.

I am grateful to the students, teachers and industrial volunteers, who are involved in these SAE events. This has been very satisfying the way we all are able to organize the events.

We are hopeful of reaching many more milestones and expanding our horizons further.

Deepak Sawkar
Vice Chairman- Student Activities
GM- MSIL



While this issue of Sampark was being compiled, a newflash came in
"India has won Gold at SAE International AWIM Jet Toy Olympics!!!



Congratulations to Team India!!!

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SAENIS MANAGEMENT COMMITTEE 2012

The new Management Committee of SAENIS for the period 2012-2014 was elected at the Annual General Meeting held on 24th March '12 at India Habitat Center, New Delhi.

Mentor- SAE NIS - Dr. K. Kumar
Executive Advisor, Maruti Centre for Excellence

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Managing Executive Officer (Engineering), MSIL

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Sr. Executive Director, Lumax Industries Limited

Sr Vice Chairman - Mr. C.V. Raman
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AGM (Cost Management), MSIL

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President & CEO, Subros Limited

Vice Chairman (Membership) - Mr. D.N. Dave
Chief General Manager (Body, Interior & Chassis Design), MSIL

Vice Chairman (Technical) - Mr. P. Panda
Chief General Manager (Powertrain Design & Testing), MSIL

Vice Chairman (Technical)- Prof. (Dr.) Sagar Maji
Professor & Dean (Research), Delhi Technological University

Vice Chairman (Student activities) - Mr. Deepak Sawkar
General Manager (Homologation, Facility Planning), MSIL

Vice Chairman (Student activities) - Mr. A.K. Sehgal
Dy General Manager (R&D) , Indian Oil Corporation Limited

Vice Chairman (Seminars & Conferences) - Ms. Pamela Tikku
Sr General Manager (Powertrain), ICAT

Vice Chairman (Seminars & Conferences) -Dr. SSV. Ramakumar
Dy General Manager (R&D), Indian Oil Corporation Limited

Vice Chairman (Student events) - Mr. Sunil Malhotra
General Manager (CAE & Vehicle Testing), MSIL

Vice Chairman (AWIM) - Mr. Rakesh Sood
Managing Director , Trims India Private Limited

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Professor, IMT, Ghaziabad

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General Manager (New Projects), MSIL

Executive Member - Mr. Sanjay Thakar
General Manager (Body Engineering) , MSIL

ED- SAE NIS - Mr. A.D. Sindwani
Executive Director, SAE Northern India Section

SAE World Congress- 24th - 26th April 2012

SAEINDIA in association with MSIL inaugurated the Nationals of AWIM Jet Toy Olympics at New Delhi on 12th-13th November 2011. Held under the banner A World in Motion (AWIM), the Jet Toy Olympics is a program to introduce school children to the fundamentals of science, mathematics, technology and automotive engineering (STEM).

As a part of the competition, students are provided with a kit containing raw material to build the toy car. Each student team gets a toy kit covering different automotive aspects.

In the course of this year's competition, engineers from various organizations had invested time & talent to train around 1,400 students and 40 teachers from 32 schools in NCR region. Regional Olympics were held in 16 cities to select the participants for the National Olympics. 2 best teams from each city were selected and finally 26 teams from 13 cities were selected to participate in the grand finale.

St. Columbus School, Delhi emerged as the National winner of the AWIM Olympics.

The team comprising of Bhavishya Bhatt, Kshitij Malik, Ankit Sharma, Paanshul Jerril, their Teacher Ritu Montario along with the Student Co-ordinator Shikha Malik and Industry Volunteer Mr. Sunil K V from MSIL participated in the AWIM International Olympics at SAE World Congress on 25th April 2012, Michigan, Detroit, USA.

Glimpses of National Olympics



Rain-sensing Wipers

TECH BUZZ

In the past, automakers have tried to either eliminate the wipers or to control their speed automatically. Some of the schemes involved detecting the vibrations caused by individual raindrops hitting the windshield, applying special coatings that did not allow drops to form, or even ultrasonically vibrating the windshield to break up the droplets so they don't need to be wiped at all. But these systems were plagued by problems and either never made it to production or were quickly axed because they annoyed more drivers than they pleased.

However, a new type of wiper system is starting to appear on cars that actually does a good job of detecting the amount of water on the windshield and controlling the wipers. One such system is made by TRW Inc., here is a PDF describing their rain sensor system. TRW Inc. uses optical sensors to detect the moisture. The sensor is mounted in contact with the inside of the windshield, near the rearview mirror.

The sensor projects infrared light into the windshield at a 45-degree angle. If the glass is dry, most of this light is reflected back into the sensor by the front of the windshield. If water droplets are on the glass, they reflect the light in different directions -- the wetter the glass, the less light makes it back into the sensor.



FORMULA SAE is an international student level competition in which teams from universities all over the world plan, design, analyze, fabricate and run a formula type race car which is evaluated during a series of Static, Dynamic and Durability events like design, cost evaluation, presentation, acceleration, skid-pad, auto-cross, fuel economy and endurance.

Originally started in USA by the SAE International as FORMULA SAE, today it is being organized in several countries with different names like FORMULA STUDENT (UK), FORMULA STUDENT (Germany), FSAE Australasia, FSAE Brazil, FSAE Italy etc. In India, it was organized as SUPRA SAEINDIA 2011 for the first time from 1st to 3rd July 2011 at Madras Motor Race Track (MMRT), Irungattukottai (Tamil Nadu) followed by HR Meet on 4th & 5th July 2011. The main sponsor was Maruti Suzuki. Prior to this, FORMULA SAEINDIA DESIGN CHALLENGE was held in December 2009 in Chennai.

The next event is scheduled in September 2012, weeks ahead of F1 event to be held at the same venue in October 2012.

MARUTI SUZUKI is promoting FORMULA SAEINDIA since its inception in the 1980s. To popularize action sport, the Maruti Suzuki motorsport calendar is packed with exciting motoring events.

SUPRA SAEINDIA is not a Motorsports, but the educational pursuit for the engineering college students, an Out-of-classroom-education system, where engineering students from all over India participates as a team, giving them pragmatic exposure to real world challenges as faced in the industry. This helps the objective of bringing out student talent to serve the nation for the years to come, in fulfillment of the Automotive Mission Plan (AMP 2016) a dream to make India an International automotive hub. MARUTI SUZUKI liked this initiative of SAEINDIA and approached the Event Organizers with an aim to sponsor this event once again.

This year Maruti has contributed 33 engines to the participating teams. Last year Maruti had given away 44 engines.

A Workshop on Powertrain is planned to be held in May/June 2012 for the participating teams at ARAI, Pune.

For more details, please refer www.suprasaeindia.org

GLIMPSES OF SUPRA SAEINDIA 2011

SUPRASAEINDIA
Date : 2012

Applying the Power of Ingenuity

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Team Behind SUPRA SAEINDIA

SPONSORSHIP OPPORTUNITY

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CONSUMER TIE-INS

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Sponsorship Details

Awards Sponsors

Associate Sponsors

Event	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Static	1000	500	250	150	100	50	25	15	10	5
Dynamic	1000	500	250	150	100	50	25	15	10	5
Durability	1000	500	250	150	100	50	25	15	10	5

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Dy GM- IOC (R&D)

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Mr. Sunil Malhotra
GM - MSIL

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Mr. Rakesh Sood
Managing Director, Trim India

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President – SAEINDIA

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SAE International

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Dr. V.K. Gupta
Professor, IMT Ghaziabad

Mr. Hemant Swain
GM, MSIL

Mr. Sanjay Thakar
GM, MSIL

Mr. A. D. Sindwani
Exec.Dir - SAENIS

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