



Happy Republic Day

Issue 3, February 2011

Sampark

SAEINDIA NORTHERN SECTION

The Engineering Society
For Advancing Mobility
Land Sea Air and Space

Celebrating a Decade of Knowledge Enhancement

From Former Chairman's desk



It gives me immense pleasure in reaching out to SAE-NIS fraternity and extend my warm greetings. I find that SAE Northern India Section is not only making significant strides in creating a rich knowledge base for advancing mobility but also impacting the dissemination of information. In this context, I find "*Sampark*" highly exhilarating.

I am sure that this newsletter would surely succeed in bringing out and building-up the synergy between the technologies – the power-train, the lube and the fuel. The legislation for emissions being the focus of the automotive industry, all future innovations in the automotive industry would be the resultant of the efforts to optimize for a global minima for all the components of the emission profile.

Operations with emission compliance is required to be fuelled with the technologies that compliment and supplement the design features and I do hope that *Sampark* would provide that important communication channel to bridge the thought process of the automotive, oil and ancillary industries. All these three important dimensions of the automotive industry viz., the power-train designs, the ancillaries and the fluids i.e. the lubes and fuel for providing the mobility – need to be amalgamated in a single design matrix for approaching the end target of emissions. It is in this context, that the role of knowledge platform provided by SAENIS would find an immediate appeal to the user industries, the research institutions and the academia.

I look forward to see SAENIS become an important segment of SAEINDIA and emerge as a strong opinion maker for the automotive industry in the coming years. This would be made possible by the significant contribution of all the stake holders and I find to my satisfaction that all the working sections are making concentrated efforts in such direction and shall keep on doing so. In fact, I am confident that SAENIS shall play a stellar role in fostering energy security and sustainable development.

Dr. R K Malhotra
Director IOCL (R&D)
Chairman SAENIS(2008-2010)



AWIM National Olympics

"A World in Motion" (AWIM) National Olympics was organized on 9th January'11 with the participation of 100 students from 25 schools who designed an appealing jet toy that performs in a specific way.
... Page 2



Advanced Automotive Testing Technology and Solutions

A seminar exploring the latest trends in durability testing and simulation related to automotive industry.
... Page 2



Symposium on International Automotive Technology (SIAT) 2011

It brings the automotive experts across the globe together on a common platform to share their experience, knowledge and innovative ideas on the developments in automotive technology.
...Page 3



BAJA SAEINDIA 2011

"Engineering students' innovation and creativity at its best". The Baja SAE INDIA peeps into the future with the go green theme
...Page 3

Upcoming events...

- Seminar on "Innovative Solutions on Electroplating Technologies", 5th February 2011, Gurgaon
- Seminar on "Simulation Solution for Automotive Industry, 23rd February 2011, Gurgaon
- Seminar on "Improving Productivity in Automotive Product Development", 1st March 2011, Gurgaon

For more details contact SAE NIS office

3rd AWIM National Olympics, 9th January 2011, Nasik

3rd Edition of the AWIM National Olympics saw immense enthusiasm and energy level of 6th standard students coming from 9 cities across India. The interest and knowledge of the new generation in science and automotive technologies were displayed, thus promoting mobility in schools through the fun filled activities.

Hosted and organized by SAEINDIA and M&M, the event kicked off with an inaugural message by Dr. Goenka, followed by toy fabrication, track events and presentation event.

25 teams participated in the National Olympics, which were selected through city level competitions across 9 different cities from various sections of SAEINDIA.

Sanskriti School, G.D Goenka School, Tagore International School were the schools that participated from Northern section in the National Olympics.

The competition was judged by Mr. Ramesh Kadaganchi, GM Quality, John Deere, Dr K.C. Vora, Deputy Director & head ARAI Academy, Ms. Ramkripa Anathan, Head Styling Mahindra & Mahindra, Mumbai, Ms. Sucheta Sharma, Lead Generalist H.R. Eaton, Mrs. Neeru Vora, Artist.



IGIT and Dronacharya College of Engg with guidance from Mr.Rakesh Sood and MIND A GROUP helped Northern Section to compete in AWIM National Olympic

“Wisdom High International School, Nashik were the Overall Winners”

The students experimented with different designs and nozzle sizes to determine the effect on the jet’s performance. In the presentation round, teams gave a demo of their concept cars with Team name, Toy name, logo and slogan of their team.

Wisdom High International School, Nashik were the Overall winners of AWIM National Olympics. G.D. Goenka School, Faridabad won the award for their Teamwork.

A special award ‘AWIM Best volunteer’ was given to Mr. Shailesh Kulkarni of M&M to encourage the whole hearted support of the volunteers



Advanced Automotive Testing Technology and Solutions, 14th January 2011, Gurgaon

MTS The field of automotive durability testing has evolved a lot with the focus shifting from field based testing to more reliable and less time consuming lab based testing.

Increasing commercial pressures to develop and deliver reliable products in a timely manner necessitate further accelerating the lab testing procedure. The seminar gave an overview of the sensors for accurate field data measurement and analysis techniques that help in considerably reducing the field data while simulating the same in a controlled environment inside a test lab. The seminar witnessed an overwhelming participation of 59 participants from OEMs and Automotive suppliers



the virtual world. He stressed that accelerated testing is the need of the hour in order to shorten the product development life cycle.

Application experts from MTS Systems Corporation, USA delivered sessions on basics of durability testing and the emerging technologies in this field that embrace technologies like vehicle simulation and multi axis simulation table (MAST). Special focus was given on the state of the art turnkey solutions available with MTS for component testing requirements.

The seminar concluded with an insightful session on test rig design considerations by MTS application expert. The contents of the program were well appreciated by the participants who were primarily constituted of experienced people from the field of durability testing.



A welcome address by Mr. CV Raman (Co-Chairman Technical Board, SAENIS) marked the beginning of the seminar wherein he emphasised the need of collaborative approach that harmonize the physical testing methodologies with

“The seminar provided an insight into a range of fatigue/durability testing methods, from components to full vehicle with an additional focus to test rig design”



Symposium on International Automotive Technology (SIAT) 19th-21st January 2011, Pune



The 12th edition of SIAT 2011, organized by ARAI in association with SAEINDIA and NATRiP, focussed on areas of safety, alternate fuels, engine technologies, emissions, Automotive electronics, structural evaluation, vehicle engineering, materials and harmonization of standards. The theme of SIAT 2011, ‘Sustainable Mobility – A Creative Challenge’, is in continuation with previous edition’s theme of ‘Eco-mobility’. It is apt in the current times as it emphasizes innovative developments in automotive technologies to tackle the ongoing and future challenges.



In all, 150 technical papers were presented comprising of 19 papers on Power Plant, 19 papers on Emissions, 9 papers on Alternate Fuels, 12 papers on NVH, 14 papers on CAE, 11 papers on Safety, 19 papers on Vehicle Engineering, 5 papers on Evaluation Techniques, 9 papers on Materials and 3 papers on Homologation. Keynote speeches were given by eminent personalities across the automotive industry. Some of the key areas that were focused were Heavy duty diesel engine emission control, Future trends of transmission, Trends in automotive electronics

BAJA SAEINDIA 2011

The coveted BAJA SAEINDIA 2011 concluded on 30th January 2011 with the *Punjab de munde* from Sant Longowal Institute of Engineering & Technology, Longowal emerging as a surprise package, winning the BAJA SAEINDIA 2011. The 3-day event was inaugurated on 28th Jan with the presence of Sudhakar Shenoy, Vice-President, John Deere India & India’s own ace-driver, Karun Chandok as the Guests of Honor. The BAJA SAE, an event all about designing and fabricating a



single seater off-road vehicle to take part in a series of static and dynamic events spread over a course of 3-days.

The highlight for the 2011 edition of BAJA was the ‘Go Green’ theme implemented with a vision to incubate a thought upon Environmental Sustainability amongst the budding engineers. The students were tasked to deliberate upon emission reduction, weight reduction, use of recyclable materials, compliance with ELV regulations, etc.

The evaluation of the vehicle was done with close inspection. Roll cage and innovation on the static front, acceleration, grade ability, braking and maneuverability on the dynamic front and number of laps on the 2.4 Km track for a period of 2.5 hours formed the basis for the endurance evaluation.

and India's emerging role, strategies for control of automotive NVH, policy framework and measures for improving air quality.



The SIAT conference was inaugurated by Member of parliament Supriya Sule along with Chairman of SIAT 2011 working committee and ARAI director Mr. Shrikant R. Marathe

“7th SAEINDIA International Mobility Conference will be held in New Delhi in January 2012 concurrently with AUTOEXPO 2011 ”

“The future trends for the automobile industries lies in the hybrid technologies, Battery development, alternate fuel power plants, light weighing new materials compact design and reduce reuse” said Mr Marathe.

SIAT Expo which forms grand exposition of automotive technology, products and equipments pertaining to auto industry was also organized concurrently during SIAT 2011. This exposition was open to automotive personnel and interested public and provided great opportunity to share and disseminate.

In continuation with SIAT 2011, SAE will organize SAE Mobility conference to be held in New Delhi during January 2012

Over 1700 students representing 79 engineering institutes across the country participated in the event. Nearly 200 eminent personalities from the auto-industry lent their support towards the event as a volunteer for judging various parameters of design.



The team from Sant Longowal Inst of Engg & Tech, Longowal, GH Raisoni College of Engg, Pune & SKNCE, Pune, bagged the Overall 1st, 2nd and 3rd prize respectively, with a prize money of 5 Lakh, 3 Lakh and 2 Lakhs along with an ATV to the team from Longowal.

“Go green theme implemented with the vision of environmental sustainability”



The Managing Committee**Chairman**

Mr. I.V. Rao
MEO (Engineering), MSIL

Senior Vice Chairman

Mr. R.B. Madhekar
CGM, MACE.

Mr. P. Agrawal
GM, MSIL

Secretary

Mr. Tapan Sahoo
GM –MSIL

Treasurer

Mr. N.S. Rao
AGM – MSIL

Vice Chair Student Activities

Mr. Deepak Sawkar
GM -MSIL

Dr. SSV Ram Kumar
Chief Mgr. IOC (R&D)

Vice Chair Membership

Mr. Anoop Chaturvedi
GM - MSIL

Mr. Deepak Jain
Sr. Executive Dir. Lumax Industries

Vice Chair Technical

Dr. K.P. Naithani
Exec. Dir. IOC(R&D)

Mr. C.V. Raman
CGM-MSIL

Vice Chair Conference & Communications

Mr. Sanjay Thakar
GM –MSIL

Dr. R. T. Mookken
GM- IOC (R&D)

Vice Chairman – Formula/ BAJA India/ Design competition

Ms. Pamela Tikku
Deputy Dir., iCAT

Vice Chairman - AWIM

Mr. Rakesh Sood
Managing Director, Trim India

Executive Members

Dr. K. Kumar
Director –MACE
Mentor (SAENIS)

Dr. R. K. Malhotra
Director – IOC (R&D)
Immediate Past Chairman, SAENIS

G.K. Acharya
DGM (IOC) R&D

Mr. Hemant K Swain
GM -MSIL

Mr. Atanu Ganguli
Director-SIAM

Mr. A. D. Sindwani
Exec.Dir - SAE-NIS

Invitees

Mr R. Dayal
Executive Officer (PE), MSIL
President – SAEINDIA

Mr S. Maitra
Managing Executive Officer (SC), MSIL
Ex-Chairman, SAENIS

Editorial Board

Sanjay Thakar

S P Nayak

Deepak Panda

Anoop Bhat

Piyush Agrawal

Avnish Gosain

Siddharth Kotru

Gaurav Jain

G Hari Vignesh

Ravi Kumar Goel

Ankur Anand

Milind Wagh

Harveen Talwar

SAE NIS Office Address

O – II – 87, Palam Vyapar Kendra,
Palam Vihar, Gurgaon – 122017, (HR)
Tel: 0124-4370163

e-mail : sae.nis@gmail.com

Mr. A.D. Sindwani :
+91 9891189512

KNOW MORE

www.saenis.org

www.sae.org

www.saeindia.org

www.fisita.org

www.siamindia.com

JOIN US @ www.saenis.org/sae-india-membership
VIEW OUR MEMBERS @ www.saenis.org/members

Let the editors know what you think of this Newsletter
@ www.saenis.org/feedback

BAJA SAEINDIA'11 Overall Winners

Sant Longowal Inst of Engg & Tech

Raisoni College of Engg, Pune

SKNCE, Pune