I extend my heartiest congratulations to the Editorial Team of Sampark on its successful first Anniversary. Sampark has provided a platform for communication among the members of SAE Northern India Section. I am confident that Sampark will continue its efforts towards knowledge sharing and scale new heights in coming years for the SAENIS fraternity.

As you know, knowledge sharing has been the principal focus area of SAEINDIA and various seminars, lectures and conferences on top technology are being organized every month by SAENIS.

I find that the various events organized by SAENIS are immensely useful to its members and the initiatives being taken up by SAENIS are helping in taking the cause of SAE to more and more people.

It’s a matter of great pleasure that we as a part of SAENIS have successfully conducted some major events this year. More than 12 technical seminars were held in past one year on topics varying from Thermoplastics, Automotive Testing Technology, Electroplating Technologies to Simulation In Hybrid Electric Vehicles, and Passive Safety. Events such as AWIM Jet Toy Olympics for school children and hybrid Efficycle for college students were also conducted successfully last year. These events saw a huge turnout of students and strong participation from the Auto industry. We should focus on student activities this year to bring college students closer to the industry.

I am glad that SAENIS successfully conducted the seventh 7th edition of SAEINDIA International Mobility Conference in New Delhi in January 2012. This event saw participation of over 500 delegates from India and abroad.

Looking ahead, the Automotive industry in India is expected to grow fast and there is a strong need to meet the future demands in terms of technology and modernization. I appeal to all the present members of SAENIS to spread the word among their fellow members to promote SAE activities.

Happy reading!!

I.V. RAO
Chairman – SAENIS
Chairman@saenis.org

We wish all our patriotic readers a very Happy Republic Day!

In this Issue...

Chairman’s message  __________________  1
Glimpse of 2011 events  ____________  2
The year that went by……………….  4
SAE Technology seminar……………  5
SIIMC 2012  ________________________  6
Members Corner  ____________________  8
A World in Motion (AWIM) Jet Toy Olympics 2011

Nearly 500 students, teachers and volunteers participated in the ‘A World in Motion’-Jet Toy Challenge to demonstrate and share what they had learned in their classrooms.

Students in teams of 4 build a balloon-powered vehicle and compete in the distance, accuracy, weight carrying and timed events in the AWIM Jet Toy Challenge.

The Regionals of Jet Toy Olympics were held across 9 different cities, winners of which competed in the National Olympics. G.D. Goenka School, Faridabad won the award for demonstrating their excellent Team spirit. Wisdom High International School, Nashik was declared the National Champion and it represented India and competed with international schools at AWIM Jet Toy Olympics held on 13th April 2011 at Detroit, USA.

Ahead of the Olympics to be held in Detroit this year, the Regionals for the Northern Section were conducted across Delhi, Chandigarh and Gurgaon through October which was followed by Nationals at New Delhi in November 2011. St Columba’s School, Delhi emerged as the National winner that will get a chance to participate in the AWIM International Olympics at SAE World Congress in April 2012, Michigan, Detroit, USA.

SUPRA SAEINDIA 2011

Supra SAEINDIA was held in July 2011 in Chennai for undergraduate and postgraduate engineering students from all over India. This event provides the students a real world engineering challenge of designing, modeling & fabricating a formula type racing car. The concept behind SUPRA SAEINDIA is that a fictional manufacturing company has contacted a design team to develop a small Formula style race car. The prototype is to be evaluated for its potential as a racing car. Each team designed & produced a prototype based on well laid down rules & regulations. Team AISSMS from Pune bagged the first position in SUPRA. SAENIS members made a contribution for 2011 event in engine workshop and also guided the students throughout the event.

SAE INTERNATIONAL PRESIDENTIAL TEAM VISIT

SAE International Presidential team visit took place in December 2011, where the Chairman SAENIS, Mr IV Rao welcomed Mr. David Schutt - CEO of SAE International. He said that since the inception, SAENIS along with its parent organization SAE has been working towards the advancement of the mobility technology for the betterment of humanity. The winning team of AWIM was felicitated by the CEO, SAE International at the meeting.

He motivated and wished all the best to the team for the AWIM international competition which is to be held on April 2012, Detroit, USA.

SAENIS is the northern chapter of SAE India; working in tandem with the SAEINDIA and SAE International. It has been regularly organizing seminars, technical lectures and Conferences for its members.
Glimpse of 2011 events

BAJA SAEINDIA 2011

The coveted BAJA SAEINDIA is all about designing and fabricating a single seater off-road vehicle to be tested in a series of static and dynamic events spread over a course of 3-days.

Virtual BAJA, a home-grown initiative of SAEINDIA tasks the students to manage and plan a well structured team, prepare a detailed project plan and freezing the design for advancement to actual vehicle build stage. Based on the performance in the Virtual BAJA, shortlisted teams are selected for participation in the main event.

The highlight for the 2011 edition of BAJA SAEINDIA 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 etc.

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.

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. SAENIS volunteers participated enthusiastically and motivated the team throughout the event.

EFFICYCLE SAEINDIA 2011

The EFFI-CYCLE tasks the students to design, fabricate and validate a 2-seater three wheeled vehicle powered by human-electric hybrid power. The event is spread over a course of 3 days that test the vehicle for the sound engineering practices that have gone into it the agility of the vehicle in terms of gradability, speed, acceleration and maneuverability characteristics and finally its ability to endure that treacherous durability test. Nearly 90 teams registered for participation in the second edition of this event, up from 25 for its maiden event, indicating immense popularity the EFFI-CYCLE has garnered with the students. Based on an exhaustive scrutiny process, 37 teams were selected for participation in the event that was scheduled for 14th – 16th October 2011 at University Institute of Engineering & Technology, Chandigarh. The event kicked off with the inaugural ceremony, presided over by Sh. Vikram Gulati, Director – Operations / NATRIP, MoHI&E. The dignitaries present include Ms Pamela Tikki (iCAT), Prof R.C Sobti (Panjab University), Prof Renu Vig (UIET), Mr. Alok Jaitley (MSIL) and Dr. Tapan Sahoo (MSIL / SAENIS). This was followed by Technical Inspection, Brake Test and other evaluations followed by Endurance Event. Sh. Samir Mathur, Principal Secretary Home and Finance Commissioner, Government of Haryana graced the valedictory event as the Chief Guest. He appreciated the efforts of SAENIS EFFI-CYCLE Organizing Body in establishing a platform that lays the foundation of a green and clean future.

PES Modern College of Engineering, BITS, Pilani, Walchand College of Engineering were Overall 1st, 2nd and 3rd respectively.

AWIM Matt Miller Program

The Matt Miller program is a dynamic curriculum focusing on the engineering design process for physical science classes. The program is designed for students in grades 7-8 who are experiencing physical science concepts for the first time.

The event that took place on 14th-15th November 2011 comprised of Gravity Cruiser which is a self propelled toy vehicle that will be powered by a lever and weight system whose adjustment needs to be done to ensure a greater travel distance, Skimmer Challenge in which the students make paper sailboats that are propelled by fans across the floor. They test the effect of different sail shapes, sizes, and construction methods on the performance of their skimmers.

Motorised Toy Car in which the students should be able to achieve design gear ratio using 2 or more gears so that the car is able to travel a 30° slope or cover a 3m distance in less than 3sec.
Technical Events 2011
SAENIS conducted series of seminars in the past year. The seminars proved to be a major tool for enlightening the knowledge among the SAENIS fraternity. The main aim of conducting such a seminar was to spread awareness and communicate to the SAENIS members regarding the latest trends and technologies available today and in future.

The seminar such as "thermoplastic solutions for automotive", "innovative solutions on electroplating technology" and the seminar of "automotive testing technology" showcased the latest trends and innovative solutions that will find a wide range of applications in the automotive industry. India's market scenario today is towards the making of cost competitive product and therefore SAENIS tried to harness the same by the showcasing in the seminar "impact of weight and cost reduction opportunity in the near future". SAENIS also focused on enhanced productivity by conducting the seminar "improving the productivity in the automotive product development". The seminar such as automotive steels emphasized on the awareness about the steel regarding the manufacturing and application. The seminars such as "passive safety" and "Driving around the clean air" showcased by the SAENIS showed its role in the concern regarding safety and environment.
A Technology Seminar on ‘Tightening Techniques’ was organized by Atlas Copco Tools & Assembly Systems (ACTA) in association with SAENIS and MSIL on 17th Dec 2011 in Gurgaon.

The theme of seminar was to simulate the customers through the day to day innovations which drives the key products of automotive sector. The agenda was to familiarize the major Automotive spectrum of not only the Products but our overall Service extensions.

The Seminar was initiated by a thoughtful Welcome Note of SAE Northern India Executive Director, Mr. A.D Sindwani. He emphasized the importance of such conferences in realizing the role of technological advances to improve manufacturing capabilities at an enhanced scale.

The Program was then proceeded further by Atlas Copco by giving a momentous snapshot of Atlas Copco Global Group through captivating facts and Several Videos about Atlas Copco market expansions. Technical presentations raved the various Sessions on Different Product Range like Pnuematic, Electric, material removal etc.

The Presentation was culminated by live Demos and display of all Major Tool Range outside the auditorium followed by a Corporate Lunch for our esteem guests The Spectacular response from major OEM’s like Maruti, Honda, Gabriel, SPIL etc have made this event a huge Success for ACTA North. Our Vision “Strive to remain first in mind, First in choice” and how we are “committed to sustainable Productivity” was clearly visible in the sessions, after all we all must agree that Products are made in factories but Brands are created in Minds!!

Participants: Mr. Vineet Choudhary, Mr. Rohit Langwal, Mr. Gaurav Kumar, Mr. Prerit Khera, Mr. Kunal Vaid, Miss Shikha Sharma, Mr. Sameer Lulu, Mr. Abhijeet Champhekar.
SAEINDIA INTERNATIONAL MOBILITY CONFERENCE 2012

SAEINDIA in association with SAE International organized the 7th International Mobility Conference on 9th, 10th & 11th January 2012. The theme for SIIMC 2012 was Intelligent & Innovative Technologies for Sustainable Mobility. Mr. Amitabh Kant, CEO and MD (DMICDC) made his esteemed presence as the Chief Guest. The conference was attended by over 500 delegates from across the world representing the Automobile OEMs, Component Industry, Government, institutions, Regulatory authorities and the Academia.

Inauguration
The event began with an auspicious note by a lamp lighting ceremony. This was followed by addresses by Mr. R Dayal, President- SAEINDIA, Mr. S Sandila, President-SIAM, Mr. Arvind Kapoor, President-ACMA which was followed by address by Mr. Amitabh Kant, Chief Guest and Dr. Pawan Goenka, Guest of Honor and Mr. I V Rao, Chairman-Organising Committee.

Mr. S Sandila shared the Perspectives on the Indian Automobile Industry. He shared the Vision 2016 in which he said that “by 2016, India will emerge as the destination of choice in Asia for the design and manufacture of automobiles and automotive components. The output of the India’s automotive sector will be $145 billion by 2016, contributing to 10% of India’s Gross Domestic Product and providing employment to 25 million persons additionally.”

The international conference of this stature could not have been complete without a matching display of technologies to support the innovations. The welcome message was followed by inauguration of the Exposition.

Keynote Sessions
The 3 daylong conference comprised of 15 Keynote sessions by some eminent authors from the presenting their work. There were keynote sessions by Dr. Stefen Bender, Mr. Andy Ward, Mr. Thomas R Stover among others. Technical sessions covered topics like Powertrain Engineering, Green Technologies, Vehicle Engineering, Manufacturing Technologies, Virtual Vehicle Development, Legislation & Policies. There were also 27 technical papers presented.

Cultural Event
Concluding the first day was a cultural event that comprised of some breathtaking performances. There were classical performances, bhangra performance, band performance that enthralled the audience.

Student session
Prior to SIIMC 2012, students were encouraged to submit their papers from any field related to mobility engineering. A student session was also conducted to encourage creativity and innovation within the student community. There were 7 student papers presented by the graduate and post graduate automobile engineering students. They were judged by Prof MGK Babu, Prof S. Maji and Prof S. Gupte and the best three student papers were awarded.

TopTech Program
A TOPTECH program on ‘Side Crash Protection & Vehicle Crash Worthiness Design was conducted by Dr. Joseph Kaniathan, Former Associate Administrator, Office of Vehicle Safety Research, National Highway Traffic Safety Administration (NHTSA), US Department of Transportation (US DOT). The program covered crash dynamics in side crashes, countermeasures for occupant protection, side impact protection standard, test dummies used, injury criteria, compliance test procedures, side impact NCAP.
Panel discussion

A panel discussion was held, the panelist of which comprised of people from the Auto Industry, Policy makers, Environmentalists, Opinion makers, Regulatory authorities. The Theme for the panel discussion was ‘Technologies for Sustainable Mobility in Emerging India’. The panel discussion touched upon issues that were wide ranging and highly thought provoking.

The panel members included Panel Chairman Mr. Dilip Chenoy, MD & CEO – NSDC, Dr. Krishan Kumar - Exec. Advisor - Maruti Centre of Excellence, Mr. A.K. Taneja, MD & CEO - Shriram Pistons, Mr. Vikram Gulati - Director (Operations)- NATRIP, MoHI, Prof. Dinesh Mohan, IIT, Delhi, Ms. Anumita Roy Chowdhury, Executive Director – CSE, Mr, Mr.Suvojoy Sengupta, MD, Booz and Co. India.

Dr.Kumar shared the steps by which Sustainable Mobility can be achieved in an Emerging India. He mentioned that development of technologies needs to be promoted to achieve best in class fuel efficiency performance along with introduction of vehicle technologies that support the diversification energy and fuel resources.

I.V Rao, Chairman, Organising Committee concluded the event with a vote of thanks.
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