It is a matter of pride and excitement to be a part of SAENIS, an elite fraternity. Sampark gives an opportunity to have a direct link with all its readers.

Sampark has a diversified coverage on all the engineering aspects related to Automobile Industry. This not only gives an idea as to how the technologies are integrated and woven in to each other but it also tells us how it conjures our minds and intellect to make impossibles as possible.

The seminars and the various student activities conducted by SAENIS are sure to cajole the young minds to find alternatives to the existing energy resources which are finite and scarce. This may completely wipe out the existing technology and emerge with entirely new options. I think, with experience and guidance of our older generations, the vibrant and energetic youth with innovativeness and dynamism can create ripples with breakthrough technologies. The thrust in this aspect has already been given by SAENIS through various initiatives like EFFI-Cycle.

As Automotive is a growing industry, we will see a lot many changes through various challenges like reduction on emissions tending towards zero, option of alternative fuels, and auto components compatibility to fuels and lubricants etc. Nevertheless the technology has to fit into the common man’s pocket size, yet keeping in mind the prevailing constraints.

With dreams in my mind, I wish all the readers to strive for a better and greener tomorrow.

A K SEHGAL
Dy General Manager (R&D), IOCL
Vice Chair Student Activities,
SAENIS

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UPCOMING EVENT
SAENIS EFFI-CYCLE 2012 : 12th- 14th October 2012 at UIET, Chandigarh
(62 Teams, more than 700 students)

This month’s issue is featuring Ms. Pamela Tikku Senior General Manager, iCAT and Vice Chair Seminar & Conferences, SAENIS MC 2012 in the section FACE-2-FACE...
This month, we are introducing Ms. Pamela Tikku, our new SAENIS Management Committee member 2012-2014 in this column.

Ms. Pamela Tikku, Senior General Manager, iCAT and Vice Chair Seminar & Conferences - SAENIS.

An introduction:
Ms. Tikku has over 20 years of rich industry experience. She graduated in Mechanical Engineering from MREC (MNIT) Jaipur in 1990 and started her career as Teaching Assistant in REC (Srinagar) Jammu Campus. She started her professional career in Automotive sector in 1993.

Qualification and Experience:
In the starting of her career, Ms. Tikku joined Marketing Department of Rico Auto which was one of the leading suppliers of components and sub-systems to Maruti Suzuki, Hero Honda, and various OEMs. She was also involved in the export of various Ferrous and Aluminum components to leading OEMs in US and Japan.

In 1997, she moved to Honda Siel in the Vendor Development department. This was during the project phase when various systems and procedures were being developed for the purchasing policy in India. She was actively involved in localization of various ferrous and non-ferrous components of Honda City.

In 1999, she joined Society of Indian Automobile Manufacturers (SIAM). She coordinated various policy initiatives for the Automotive Industry which included Emission Road Map for all class of vehicles in India, Auto-Fuel policy Road Map, Formulation of Bio-Fuel Policy Road Map for India, Hydrogen Energy Road map under the Chairmanship of Mr. Ratan Tata and was instrumental in formulation of Core Group on Automotive Research (CAR) under which three major pre-competitive research were formulized which included multi-industry and academia participation. During her tenure with SIAM, she was involved in formulating the base road map for the NATRIP project which was approved by the Development Council for Automotive and Allied Industries. She joined National Automotive Testing and R&D Project (NATRIP) in 2006. She has been associated in the finalization of the architecture of various labs for different centres under NATRIP in association with the Global Consultants and Industry.

Experience in SAENIS:
It has been a highly enriching experience being a member of SAE India and SAENIS. I got an opportunity to represent India in various National and International seminars and conferences. Some of the events in which I was actively involved were EFFI-cycle 2010 & 2011 & BAJA SAEINDIA events.

Vision for SAENIS:
We hope to carry forward the well established legacy of SAENIS with a continuous improvement to make it even better. To increase the base knowledge of students, we wish to conduct more seminars, events and conferences and help in the development of our society and country.

We wish Ms. Pamela Tikku All the Best!!!!
SUPRA SAEINDIA, Buddh International Circuit, Noida, 6th-10th September 2012

SUPRA SAEINDIA is an inter-collegiate student event which was organised from 6th to 10th September’12. Held at the Buddh International Circuit, Greater Noida, the competition which is in its second year is being organized for engineering students. India’s leading car manufacturer, Maruti Suzuki has teamed up with SUPRA SAEINDIA to facilitate this initiative. Through such initiatives, Maruti Suzuki is connecting with the youth and is nurturing their skills in automotive technology. This is one more step by the company towards aligning itself with the overall Automotive Mission Plan (AMP 2016), a dream to make India an International Automotive Hub.

For SUPRA SAEINDIA Formula-1 car prototype designing and development, Maruti Suzuki has offered support in many ways to the young engineering students. This includes organizing lectures, offering sponsorships and providing engineering infrastructure like car engines, transmission and other vehicle systems to those participating in this event.

As part of the competition, young engineering students conceive, design, fabricate and compete on a working model or a prototype of a F1 type racing car. The event offers a ‘real world’ engineering challenge to students.

Earlier this year, the Virtual SUPRA event had taken place. Teams had to qualify the Virtual event to participate in the main event held this month. Apart from original design concepts generated by the students, it was also exciting to see that students had carried out a series of tests in-house to prove their design sustainability. Many teams had also applied the advanced techniques in CAE to analyse aerodynamics, suspension kinematics and other important aspects required for a F1 type race car.

The event saw some great engineering marvels which were appreciated by one and all. The otherwise serene Greater Noida was bustling with a lot of activities during the four day event. Students could be spotted pushing their vehicles around as they were not allowed to start their engines before the start of dynamic events, some giving finishing touches to their hard work of many months, others running to get the welding sets to modify their role cage as instructed by the Judges, rest just enjoying the hustle bustle and re-living their college days.
The first 3 days’ activities comprised of Technical Inspection of the 63 vehicles that made it through the Virtual round. The panel of judges consisted of well known automobile experts from across Indian Automotive industry from companies like Mahindra, Maruti, ARAI, TATA, John Deere. The judges inspected the vehicles to declare them as Technically Fit for the Dynamic Events to be followed during the course of the 4-day event. The teams had to undergo stringent static scrutiny on parameters like design, costing, concept of marketing the vehicle, safety parameters as per Formula specification and technical and structural viability of the car at the Buddh International Circuit. The Technical Inspection was done by the trained inspectors who thoroughly inspected the vehicle for Suspension travel, Impact attenuators, Powertrain, Interiors, roll cages and all the other important parameters to be inspected in the vehicle.

This was followed by fuelling of the vehicles and undergoing a Tilt Test, which was carried out to check the vehicle for any type of oil leakage at an angle of 30 degree followed by checking the vehicle stability at an angle of 45 degree.

A team was given its first Technical Inspection OK sticker after complying with the Rule Book and clearing the Tilt Test successfully.

The vehicles not found to be complying with the Technical Parameters set as per the rulebook were not allowed to proceed for the Dynamic events.

On each day of the 4-day event, vehicles started queuing up for Technical Inspection early in the morning.

Car no. 56- Team Camber Racing from SRM University, Chennai was the first team to get a Technical Inspection OK in their first go! They were an excited bunch of students who celebrated acquiring their prestigious “Technical Inspection OK Sticker”.

It was, however, not a very easy task for the other teams and most of the teams had to make the necessary changes and come back for a re-check after some or the other points were not acceptable by the Technical Inspection team in the first go.

The vehicle then had to be checked for engine noise under full throttle to get their second Technical Inspection OK Sticker after which it could go for the Dynamic events.
In the Dynamic event, the teams had to drive their F1 type prototype cars where they were evaluated on parameters like Brake test, Skid-Pad test, Acceleration test and Autocross. This was followed by the Endurance run- 2 laps on the 5.14 km Buddh International Circuit.

25 teams could finally pass through Technical Inspection gate and qualified for the endurance. Other 17 teams who cleared the two levels of Technical Inspection had an opportunity to drive friendly lap with lead car at BIC.

Team Camber Racing from SRM University, Chennai bagged the honors of the Overall Winners in the event. Team GEPARD Racing from Sri Krishna College of Engineering and Technology were the Overall First Runners’ up. All girls’ Aiou Racing Team from IGIT finished 39 in the Overall Rankings.

SAE Supra 2012 Results

* Team MJCET (Muffakham Jah College of Engineering and Technology) : Marketing Presentation
* TEAM PEGASUS (P.E.S. MODERN COLLEGE OF ENGINEERING) : Skid pad Test Ranking
* GEPARD RACING (SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY) : Endurance Test
* ACCELERACERS (MAHARASHTRA INSTITUTE OF TECHNOLOGY, PUNE) : Design Evaluation
* Phoenix Racing (Sardar Vallabhbhai National Institute of Technology) : Cost Analysis Ranking
* TEAM PEGASUS (P.E.S. MODERN COLLEGE OF ENGINEERING) : Auto cross test
* TEAM PEGASUS (P.E.S. MODERN COLLEGE OF ENGINEERING) : Acceleration test
* Camber Racing (SRM UNIVERSITY) : Overall Winners
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