am extremely happy to find that Sampark is turning out to be an important segment of SAE-NIS and hence SAE India, and this has been made possible by the significant contribution of all the working sections. Technical board has the responsibility of creating and maintaining a platform for the engineers, researchers, technocrats, decision makers and opinion makers for the good cause of automobile industry under the purview of SAE. Since mid-2010, Tech Board had been able to meet the target of organizing seminars, technical lectures and talks from the experts in various identified segments of automobile applications and I am sure that with the active participation of all related boards this would be continued. SAE-NIS is gearing up to organize SAE India International Mobility Conference 2012 and in this context, Sampark would be looked upon to play a stellar role in the communication network for dissemination of information and knowledge base of SAENIS to all its members.

I am strongly of the opinion that with the expertise available to us in SAENIS, we need to actively consider supporting training courses for the people involved in the automobile, ancillary and lubricant industries. This is of utmost importance since ensuring integration across all the elements of supply-chain would not only help in proper alignment of the business targets but also in achieving customer satisfaction from both the budget and sustainability perspectives. Hence, I am sure that there would definitely be enough interest in such training courses and we would find good uptake of places in the courses, if well designed.

Sampark would be found catalyzing across the SAE fraternity by helping us in effectively communicating our system, strategies, culture, tools, techniques and the services that could be offered thereby bringing all of these elements together to end up with a total value chain structure. I am as eager as you all are to see that happen. Till then my best wishes to all SAENIS members.

Dr. K.P. Naithani
Executive Director, IOCL (R&D)
Co-Chairman, Technical Board, SAENIS

Improving Productivity in Automotive Product Development

This seminar explored some important areas within product lifecycle management that can provide automotive OEMs and suppliers immense value in managing the complexity of today’s vehicle development process.

SUPRA SAEINDIA 2011 Technical Inspection

Technical inspection for the teams participating in SUPRA SAEINDIA was held in the month of May. Vehicles were checked for various parameters

Parking Assistance System

An automated parking system that requires the driver to just sit back and watch his car steer itself into the best parking position. A combination of sensors and camera execute the operation. Once the car has been brought into position, the Intelligent Park Assist System will inform the driver that the parking operation has been executed successfully.

Upcoming events:

- Seminar on Automotive Steel, 15th July 2011, Gurgaon
- SUPRA SAEINDIA, 1st-3rd July, Chennai
**Improving Productivity in Automotive Product Development, 25th May 2011, Gurgaon**

Automotive OEMs and suppliers in India face increasing challenges and complexity in bringing vehicles to market. Fuel economy, hazardous substances, safety and CO₂ emissions are just a few areas that Government regulates today. Globalized product development, manufacturing and purchasing operations aren’t a vision – they’re a reality. As consumer’s tastes rapidly shift, automakers must reduce vehicle development and cost as well as align production with demand. Success at creating profitable products and efficient processes requires understanding and effective management of the vehicle lifecycle, as well as enabling manufacturers to make effective decisions across all the stages. Product lifecycle management software helps automakers and suppliers establish coherent, repeatable processes, as well as manage consistent and accurate information across a product lifecycle from manufacturing teams that include supply chain partners and customers. The seminar organized by Siemens Industry Software and SAENIS explored some important areas within product lifecycle management that can provide automotive OEMs and suppliers immense value in managing the complexity of today’s vehicle development process.

Some of the key focus areas in the Product Realization Process are Knowledge based design, Capture knowledge and best practices, Integrated digital product development system - Reduce design cycle time through integrated simulation Digital manufacturing – Optimize plant design and layout.

**SUPRA SAEINDIA 2011 Technical Inspection, May 2011**

The SUPRA SAEINDIA 2011 competition, which challenges undergraduate and graduate students to conceive, design, fabricate and compete with their own small, formula style, autocross racing cars, entered into its next phase.

Technical inspection of the participating vehicles was held in the month of May for which technical inspectors were earlier trained in the Inspector’s Training Event held in April. Inspection was done as per the check sheet provided by SUPRA. In addition to the 70 percent completion of the vehicle by 31st May’11, it was also checked for aesthetics, driver equipments, primary structure, suspension, steering, brakes and fuel system. The vehicles were stringently inspected for roll cage strength, presence of sharp edges, side impact structure, effective sealing structure, roll over structure, effective sealing between Engine compartment and the driver. As driver’s safety is of utmost importance, gloves and helmets were also ensured to be of high quality. This round of inspection was held by the technical inspectors from several OEMs in all the 44 colleges participating in the event which is going to be held at Madras Sports Club, Chennai between 1st to 3rd of July 2011. A team from SAENIS also visited SAE SUPRA event held at USA to witness the proceedings to understand the various preparations and activities involved for such an event.

**Intelligent Parking System**

Intelligent Parking System that ultimately gauges and decides the angle of steering and movement to put your car in the right slot.

**Park Assist**

Park Assist System though a recent phenomenon in India, is expected to soon become a standard feature in most upper segment compact sedans and SUV’s. An automated parking system, it requires the driver to do nothing more than just sit back and watch the car steer itself into the best suited parking position. The system is basically aided by three critical components, which are the ultrasonic sensors, a rear view camera and an Intelligent Parking System that ultimately gauges and decides the angle of steering and movement to put your car in the right slot.

**Back up Camera**

Once the car has found a suitable parking slot, driver is required to move forward and then bring the vehicle to a standstill. He then has to switch to reverse gear, and just let go of the steering wheel. The system will then take over the wheel and begin to self maneuver the car using its rear view camera to adjust the track overlay which you can observe on the screen fitted on the entertainment console area of the car.

**Ultrasonic sensors, rear view camera and intelligent parking system maneuvers the car into the parking slot**

The system will then take over the wheel and begin to self maneuver the car using its rear view camera to adjust the track overlay which you can observe on the screen fitted on the entertainment console area of the car.

**Intelligent Park Assist System**: A combination of sensors and backup camera allows the onboard computer to adjust the angle of traction and speed depending on the proximity of nearby vehicles, so as to maneuver the vehicle perfectly in order to fit it into the limited parking space available. Once the car has been brought into position, the Intelligent Park Assist System will inform the driver that the parking operation has been executed successfully.

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