

Technologies for Safe, Green and Connected Vehicles



SAEINDIA



*8th SAEINDIA International Mobility Conference
&
1st Commercial Vehicle Engineering Congress India
2013*



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TOP TECH

Professional Development Program

“Improving Safety on Indian Roads”

on

02-03 December 2013

@

Radha Regent Chennai

171, Jawaharlal Nehru Salai, Arumbakkam, Chennai

Course Objectives

The Objective of the course is to provide broad understanding of the latest trends and developments in Automotive Safety Technologies, Road Safety, Global and Indian Standards & Regulations in addition to enhancing awareness of existing safety concepts and technologies available.

About the Program

Automotive Manufacturers and suppliers continue to develop new technologies that make vehicles safer as real time safety needs increase with government agencies responsible for road Safety continue to update safety regulations based on new research studies. This makes vehicle safety design more challenging and complex for the OEMs and the Suppliers. This Professional Development Program will broadly cover all the aspects on Safety starting from Road Safety with comparison of Global Statistics relevant to India, Latest Developments in Active and Passive Safety Technologies, Latest trends on Global Safety Standards and Legislations in India to other Advances in Research and Design associated with Safety. The highlight of this Program will be dedicated sessions for Commercial Vehicles and Passenger Vehicles. Instructors are practicing engineers from renowned companies like WABCO, Michelin and Applus IDIADA who will be sharing their rich knowledge and experience.

Who should attend?

Automotive engineers, design professionals and product managers involved in the Design and Development Automotive Safety equipment and controls.

Course Outline

DAY ONE:- Specific to Commercial Vehicles

- Road accidents and significance of road safety from commercial vehicles point of view
- Commercial vehicle braking system description and approach to total safety
- Electronically controlled braking systems
- Antilock braking systems (ABS)
- Electronically controlled Braking System (EBS)
- Stability controls (RSC and ESC)
- Advanced driver assistance systems.
- Related vehicle electronic systems that influence safety of the vehicle
- Transmission control, Electronically controlled air suspension, Tyre pressure monitoring
- Demonstration of typical systems in test track

DAY TWO :- Specific to Passenger Vehicles

- Road Fatalities –Global statistics vs India Overview, Different Technologies and Current Trends in Developed and Developing Markets – Specific to Passenger Vehicles.
- Passive Technologies (Air bags, Frontal crash protection, Side impact protection, child protection etc)
- **Active Technologies (Advanced Driver Assistance Systems, Lane Departure Warning Systems, Autonomous Emergency Braking Systems, Active Bending Headlights, Electronic Stability Control, Collision Avoidance Systems etc)**
- **Pedestrian Safety – Regulations and Technologies**
 - Terms and definition.
 - Overview of regulations
 - Impactors and test methods
 - Solutions
 - Future trends.
- New Car Assessment Program (NCAP) – Europe, USA, Japan, Korea, Australia – Details of Different Standards
- Improving Safety on Indian Roads -- Infrastructure Improvements & Affordable Technologies
- **Advanced Material for Car and two-wheeler.**

Profile of the Speakers

S. BALACHANDRAN

Vice President - Marketing

WABCO India Ltd.

Balachandran brings with him years of expertise in the fields of Heavy Vehicles Maintenance and Operation, Road Accident Investigation, Marketing and Training in Commercial Vehicle Braking Systems and Advance Vehicle Systems. Prior to joining WABCO, Balachandran held various positions in Tamil Nadu Transport Department, Ground Supports in Indian Airlines and Oman National Transport, Muscat.

Balachandran is also actively involved in various professional engineering activities in SAE and Institute of Engineers. He is currently the Chairman of Indian Institute of Plant Engineers. Balachandran is a Mechanical Engineer and a post graduate in Management from Great Lakes Institute of Management, Chennai.

S. SELVAMANI

Product Development Lead – Asia Business Unit.

WABCO Vehicle Control Systems.

Selvamani brings with him 37 years of experience in Commercial Vehicles Products Research and Development and expertise in the fields of Braking Systems and Devices, Engineering Design Process and Design of Experiments. Prior to joining WABCO, Selvamani held various positions in TATA Motors in Research and Product Development.

Selvamani is also actively involved in various professional engineering activities in SAE. He is the Past Chairman of SAEINDIA Southern Section and a Member of Design Education Executive Council. He is currently a Member of Technical Advisory Committee of NATRIP and a Member of BSI Technical Committee for Braking Systems. He also serves as a Member of Board of Studies for Mechanical Engineering in the Anna University, Chennai.

Selvamani holds a University First Rank in BE (Hons) in Mechanical Engineering from Coimbatore Institute of Technology and a MSc in Design for Manufacture of Engineering Products from the Cranfield Institute of Technology, UK.

DINESH SHYAMSUNDAR

Lead – Software Design Centre, India.

WABCO India Ltd.

Dinesh brings with him more than 25 years of experience in Technology management through, product road map definition, managing new product introduction, building technical collaborations with markets/vendors, driving innovations while creating and sustaining a modern development infrastructure.

Earlier at Varroc Engineering Private Limited, he was heading an 80 member Research & Development team responsible for \$120 Million in revenue.

Dinesh has also worked in UCAL Fuel Systems, where he conceptualized and created a Green Field Center of Excellence for Automotive Power Train research with a 45 strong team.

CARLES MITJANS

Sr. Project Manager – Body and Passive Safety

Applus IDIADA.

Carles Mitjans graduated as Engineer from the Polytechnic University of Catalonia (Spain).

Currently, Carles Mitjans is Project Manager for Body and Passive Safety at Applus IDIADA. Since joining Applus IDIADA in 1996, he has held various vehicle development positions of increasing complexity and responsibility. From 1996 to 2009, Carles Mitjans worked in the CAE - Passive Safety department in several positions, from CAE and testing responsible up to Passive Safety performance manager, working for many different vehicle manufacturers from all over the world, and in particular leading the Passive Safety for Pedestrian Protection developments of the Ferrari 595 and 458 and SEAT ALTEA.

In 2010 he joined IDIADA Automotive technology India Pvt_Ltd, where he led CAE teams till 2013.