VEHICLE RIDE AND HANDLING: SPECIALIST ENGINEERING FOR AN IMPROVED EXPERIENCE



Automobile Division **Seminar**

18 October 2017 Hotel La Tour, Birmingham

KEY SPEAKERS INCLUDE:

Diego Minen, Technical Director **VI-grade**

Thomas Raste, Head of Competence Center Global Chassis & Motion Control **Continental**

Max Boerboom, Vehicle Dynamics Engineer **Volvo Car Group**

Jan Prins, Technical Specialist Tyre Modelling and CAE Jaguar Land Rover

Jega Sriskantha, Technical Manager – Multibody Simulation **Dassault Systemes**



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VEHICLE RIDE AND HANDLING: SPECIALIST ENGINEERING FOR AN IMPROVED EXPERIENCE

18 October 2017 Birmingham

AS THE AUTOMOTIVE INDUSTRY IS DEVELOPING MORE COMPLEX ROAD VEHICLES, MAKE SURE YOU ATTEND THIS SEMINAR TO EXPLORE THE SPECIFIC CHALLENGES IN TYRE, CHASSIS AND VEHICLE DYNAMICS DEVELOPMENT.

Hear from pioneers in this sector to find out how they are ensuring expectations are met in vehicle control and ride comfort. With the emergence of new systems disrupting the market including Advanced Driver Assistance Systems (ADAS) and Autonomous Vehicles, learn how to design for the vehicle dynamics of the future. Don't miss the opportunity to network with OEMs, academic researchers and Tier 1 suppliers to discuss the current state of the art and future technology roadmap for vehicle ride and handling.

KEY PROGRAMME HIGHLIGHTS:

- Hear about the use of driving simulators in vehicle dynamics development from **Volvo Car Group**
- Jaguar Land Rover share their approach to tyre design techniques to support ride and handling development
- **Continental** discuss their techniques for managing global chassis and motion control
- **Danisi Engineering** share their passive vehicle dynamics considerations for autonomous drive
- Learn about the eDC2 Hybrid Vehicle Torque Vectoring System from **HORIBA MIRA**

"An excellent opportunity to catch up with existing contacts and to establish new ones"

Nissan Technical Centre Europe

ATTEND THIS EVENT TO:

- Hear from leading companies in this field including Jaguar Land Rover, Volvo Car Group, HORIBA MIRA, Continental and Danisi Engineering
- Discover how to manage disrupter technologies including future ADAS and Autonomous Vehicles
- Take back to your business cost-efficient strategies whilst maintaining a competitive edge
- Network with leading organisations in the sector including OEMs, academic researchers and Tier 1 suppliers

MEMBER CREDITS:

Mike Blundell, Professor of Vehicle Dynamics and Impact, Centre for Mobility and Transport **Coventry University**

Alan Anderson, Vehicle Chief Engineer SAIC Motor UK Technical Centre Limited

Automobile Division Institution of Mechanical Engineers

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TERMS AND CONDITIONS APPLY

PROGRAMME

	WEDNESDAY, 18 OCTOBER 2017		
08:30	REGISTRATION AND REFRESHMENTS		
09:00	CHAIR'S OPENING REMARKS Mike Blundell, Professor of Vehicle Dynamics and Impact, Centre for Mobility and Transport, Coventry University		
	CURRENT DEVELOPMENTS IN RIDE AND HANDLING		
09:10 Keynote	DRIVING SIMULATORS: THE BIGGEST OPPORTUNITY TO INCREASE PERFORMANCE AND REDUCE TIME TO MARKET IN THE AUTOMOTIVE INDUSTRY Diego Minen, Technical Director, VI-grade		
09:35	DOES SHEER DRIVING PLEASURE END WITH THE ADVENT OF ADVANCED MOBILITY? Aniruddha Reddy, Key Account Manager, Application Specialist, IPG Automotive		
	IMPROVING THE PASSENGER EXPERIENCE		
10:00	GLOBAL CHASSIS AND MOTION CONTROL FROM A TIER 1 PERSPECTIVE Thomas Raste, Head of Competence Center Global Chassis and Motion Control, Continental		
10:25	QUESTION AND ANSWER SESSION		
10:40	NETWORKING REFRESHMENT BREAK		
11:10	RIDE COMFORT: MODELS FIDELITY AND USEFULNESS Maciej Czechowicz, Ride Technical Specialist, Jaguar Land Rover		
	TYRE DESIGN TECHNIQUES		
11:35	EDC2 – MIRA'S HYBRID VEHICLE TORQUE VECTORING SYSTEM Simon Aldworth, Consultant Engineer, Vehicle Dynamics, HORIBA MIRA		
12:00	THE APPROACH TO TYRE MODELLING TO SUPPORT RIDE AND HANDLING DEVELOPMENT Jan Prins, Technical Specialist Tyre Modelling and CAE, Jaguar Land Rover		
12:25	QUESTION AND ANSWER SESSION		
12:40	NETWORKING LUNCH		
13:40	TYRES AND ROADS: PREDICTING FRICTION Patrick Gruber, Senior Lecturer, University of Surrey		
14:05	ADVANCED THERMO-FRICTIONAL TYRE MODELLING FOR VEHICLE DYNAMICS Georgios Mavros, Senior Lecturer, Intelligent Mobility and Vehicle Dynamics, Loughborough University		
14:30	LATEST ADVANCES IN PHYSICAL TYRE MODELLING FOR REAL-TIME SIMULATIONS Flavio Farroni, Co-Founder and CEO, MegaRide S.r.l.		
	VEHICLE DYNAMICS FOR FUTURE VEHICLES		
14:55	THE ROLE OF MULTI-BODY DYNAMICS IN VEHICLE DYNAMICS ANALYSIS: REAL TIME SIMULATION Jega Sriskantha, Technical Manager – Multibody Simulation, Dassault Systemes		
15:20	QUESTION AND ANSWER SESSION		
15:40	NETWORKING REFRESHMENT BREAK		
16:10	AUTONOMOUS VEHICLE AGILE MANOEUVERING Manuel Acosta, PhD Student and Marie Curie Fellow, Interdisciplinary Training Network in Multi-Actuated Ground Vehicles (ITEAM), Coventry University		
16:35	DRIVING SIMULATORS IN VEHICLE DYNAMICS DEVELOPMENT Max Boerboom, Vehicle Dynamics Engineer, Volvo Car Group		
17:00	PASSIVE VEHICLE DYNAMICS CONSIDERATIONS FOR AUTONOMOUS DRIVE Tim Wright, Vehicle Dynamics Engineer, Danisi Engineering S.r.l.		
17:25	QUESTION AND ANSWER SESSION		
17:40	CHAIR'S CLOSING REMARKS		
17:45	END OF SEMINAR		

For the most up-to-date and detailed programme for the event, please visit www.imeche.org/vehiclerideandhandling
• This programme is subject to change.

• The Institution is not responsible for the views or opinions expressed by individual speakers.

HOW TO BOOK YOUR PLACE

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Seminar	Early Bird Rate Until 1 September 2017	Standard Rate
Member, Institution of Mechanical Engineers/Supporting Organisation	£270 + VAT = £324	£320 + VAT = £384
Non-member	£410 + VAT = £492	£480 + VAT = £576
Student/Retired	£90 + VAT = £108	£100 + VAT = £120

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1 Online:

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2 Email

eventenguiries@imeche.org

3 Phone +44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions

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CONFERENCE VENUE

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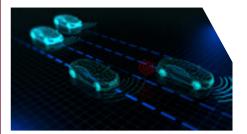


3RD BUS AND COACH ENGINEERING SEMINAR

19 September 2017, London

This seminar will focus on the reliability and whole life costs associated with low emission buses, based on real experiences in the field. Learn directly from bus operators and manufacturers whilst engaging with budget holders and engineering decision makers.

www.imeche.org/bus



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25–26 September 2017, Birmingham

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www.imeche.org/cave

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