CONNECTED EHICLE **F AUTONOMY**



The Institution of Engineering and Technology

KEY SPEAKERS INCLUDE:

Iain Forbes Head of the Centre for Connected and Autonomous Vehicles

Francois Guichard, Manager, UN Secretary - Active Safety -Mechanical Engineer United Nations Economic **Commission for Europe**

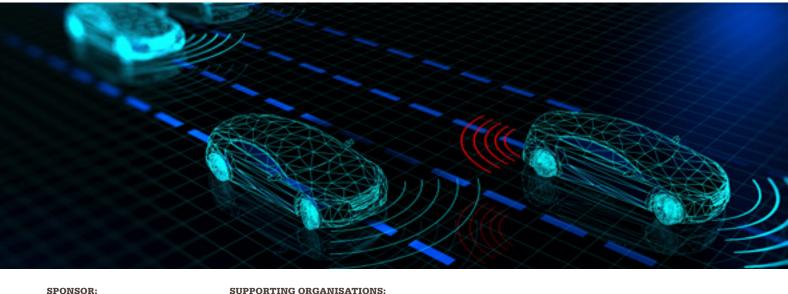
Nigel Clarke, Manager -Peerless Effortless All-Terrain Vehicle Mega-Project and Advanced Sensing Jaguar Land Rover Research

Eman Martin-Vignerte, Director Robert Bosch Ltd

Julian Turner, Managing Director Westfield Sportscars Limited

25-26 September 2017 Hotel La Tour, Birmingham

Conference



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CONNECTED AND AUTOMATED VEHICLE ENGINEERING 2017: ENGINEERING FOR ADOPTION OF AUTONOMY ON THE ROAD

25–26 September 2017, Hotel La Tour, Birmingham

GAIN KEY INSIGHTS ACROSS THE ELECTRICAL AND MECHANICAL SPHERES AT CONNECTED AND AUTOMATED VEHICLE ENGINEERING 2017.

The route towards fully automated vehicles on the road raises multiple engineering challenges. Understand the limitations of sensor systems and processing technologies to develop intelligent and adaptable autonomous vehicles. Improve your understanding of functional safety, human factors and user system interaction for safe road adoption. Hear from those conducting vehicle testing to ensure reliability and strengthen cyber security.

KEY PROGRAMME HIGHLIGHTS:

- Regulatory and governmental updates from the Centre for Connected and Autonomous Vehicles and the United Nations Economic Commission for Europe
- Jaguar Land Rover share an update on sensor technologies for all terrain vehicles
- Hear about the latest successes in UK-based trials and future plans from project leaders across the country and **Transport Systems Catapult**
- Understand how automotive manufacturers are accelerating automated driving through connected validation and big data analysis from **Robert Bosch Ltd**
- Gain insight on driver acceptance and human factors and find out what impact this has on vehicle adoption from **Transport for London, TRL** and the **University of the West of England**

ATTEND THIS EVENT TO:

- Take the unique opportunity to hear engineering insights from the **Institution of Mechanical Engineers** and the **Institution of Engineering and Technology**
- Hear from key automotive manufacturers including Jaguar Land Rover, Robert Bosch and Westfield Sportscars
- Benefit from the insightful panel discussions including core projects trialling autonomy with GATEway in Greenwich, Venturer in Bristol and the Autodrive Project
- Receive guidance from governmental bodies including the Centre for Connected and Autonomous Vehicles and the United Nations Economic Commission for Europe
- Network and engage with colleagues, peers and industry innovators from across the field of connected vehicles and automated driving

WITH THANKS TO THE TECHNICAL ADVISORY BOARD:

Tony Pixton, Managing Director **Tony Pixton Consulting Limited**

Siddartha Khastgir, Chartered Engineer **PhD Researcher: Automated Vehicles**

Alan Stevens, Chief Scientist and Research Director **TRL**

Neil Fulton, Programme Director Transport Systems Catapult



PROGRAMME

DAY 1	MONDAY 25 SEPTEMBER 2017		
10:30	REGISTRATION AND REFRESHMENTS		
11:00	CHAIRS OPENING REMARKS		
	ONGOING PROJECTS		
11:05 PANEL	UPDATES AND RESULTS FROM THE DELIVERY OF ON-ROAD AUTONOMOUS VEHICLE TRIALS IN THE UK Mike Waters, Head of Policy and Strategy, Transport for West Midlands Neil Fulton, Programme Director, Transport Systems Catapult Richard Cuerden, Chief Scientist, Engineering & Technology, TRL Tony Pipe, Deputy Director of the Bristol Robotics Laboratory, University of the West of England		
11:40 PANEL	UK CONNECTED VEHICLE TRIALS: RESULTS AND NEXT STEPS Mike Waters, Head of Policy and Strategy, Transport for West Midlands Alan Stevens, Chief Scientist and Research Director, TRL Phil Proctor, Future Technologies Team Leader at Highways England, Highways England		
12:15 HOTSPOT	HOW SUCCESSFUL HAVE THE CURRENT TRIALS BEEN AND IS THE UK DOING ENOUGH IN AUTONOMOUS VEHICLE TECHNOLOGY? Vinnett Taylor, Head of IoT Specialist, O2 Mike Waters, Head of Policy and Strategy, Transport for West Midlands Neil Fulton, Programme Director, Transport Systems Catapult Tony Pipe, Deputy Director of the Bristol Robotics Laboratory, University of the West of England Phil Proctor, Future Technologies Team Leader at Highways England, Highways England		
12:50	NETWORKING LUNCH		
	GOVERNMENT INSIGHT		
13:50	GOVERNMENT INSIGHT THE LATEST UPDATES ON THE RELEVANT INTERNATIONAL REGULATIONS, AGREEMENTS AND CONVENTIONS FROM THE UNECE Francois Guichard, Manager, UN Secretary – Active Safety – Mechanical Engineer, United Nations Economic Commission for Europe		
13:50 14:20	THE LATEST UPDATES ON THE RELEVANT INTERNATIONAL REGULATIONS, AGREEMENTS AND CONVENTIONS FROM THE UNECE Francois Guichard, Manager, UN Secretary – Active Safety – Mechanical Engineer, United Nations		
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For the most up-to-date and detailed programme for the event, please visit: www.theiet.org/cave

• This programme is subject to change.

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

DAY 2	TUESDAY 26 SEPTEMBER 2017		
08:30	REGISTRATION AND REFRESHMENTS		
09:00	CHAIR'S OPENING REMARKS		
09:10 HOTSPOT	AUTONOMOUS VEHICLES AND THEIR IMPACT ON THE FUTURE Paul Markwick, Managing Director of Operations, The Manufacturing Technology Centre Steve Cropley, Chief Editor, Autocar Geoff Davis, Chief Strategy Officer, HORIBA MIRA Jim Campbell, Chair, Connected Autonomous Vehicles Project		
	FUNCTIONAL SAFETY AND RELIABILITY		
09:50	SAFETY CONSIDERATIONS FOR HIGHLY AUTOMATED VEHICLES John Birch, Chief Engineer - Functional Safety, HORIBA MIRA		
10:20	DESIGNING AND TESTING SAFETY CRITICAL, FAIL SAFE SOFTWARE Stuart Bird, Senior Automotive Product Development Manager, Visteon		
10:50	AUTOMATION IS ON ITS WAY WITH SAFETY AND CONVENIENCE Eman Martin-Vignerte, Director, Robert Bosch		
11:20	NETWORKING REFRESHMENT BREAK		
	TESTING AND VALIDATION		
11:50	APPROPRIATE TESTING OF CONNECTED AND AUTONOMOUS VEHICLES Paul Jennings, Professor, WMG International Digital Laboratory		
12:20	MOVE_UK: ACCELERATING AUTOMATED DRIVING BY CONNECTED VALIDATION AND BIG DATA ANALYSIS Simon Morley, Lead Project Manager for MOVE_UK Project, Original Equipment Division, Robert Bosch Limited		
12:50	THE INTACT PROJECT: INNOVATIVE TESTING OF AUTONOMOUS VEHICLES Simon Brewerton, Chief Technical Officer, RDM Group		
13:20	NETWORKING LUNCH		
	SENSOR TECHNOLOGIES, SENSING AND RESPONSE		
14:20	AUTONOMY: ALL TERRAIN, NO BARRIERS Nigel Clarke, Manager - Peerless Effortless All-Terrain Vehicle Mega-Project and Advanced Sensing, Jaguar Land Rover Research		
14:50	THE CHALLENGES OF NAVIGATING COMPLEX URBAN ENVIRONMENTS: ULTRA-POD SELF-DRIVING PROTOTYPE Julian Turner, Managing Director, Westfield Sportscars Limited Jim Hutchinson, CEO, Fusion Processing		
15:20	NETWORKING REFRESHMENT BREAK		
	CYBER SECURITY AND CONNECTIVITY		
15:50	ADDRESSING CHALLENGES IN ENSURING CYBER SECURITY FOR AUTONOMOUS VEHICLES Peter Davies, Technical Director, Thales e-Security		
16:20 HOTSPOT	ADDRESSING CYBER SECURITY ISSUES WITH EXAMPLES AND CASE STUDIES Peter Davies, Technical Director, Thales e-Security Further panellists to be announced		
17:00	CHAIR'S CLOSING REMARKS		
17:10	END OF CONFERENCE		

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TERMS AND CONDITIONS APPLY

ENGINEERS WITH DIRECT OR INDIRECT INTEREST IN CONNECTED AND AUTOMATED DRIVING AT THE FOLLOWING TYPES OF ORGANISATIONS...

- Vehicle OEMs
- Tier 1 and Tier 2 suppliers
- Sensor and Advanced Driver Assistance Systems (ADAS) suppliers

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- Human Machine Interface (HMI)
- Strategy / Implementation
- Product Liability

- Software companies
- Computer Hardware companies
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- Connected Drive
- Vehicle Safety
- Security
- Simulation and Modelling

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

Delegate Type	Early Bird Rates until 25 August 2017	Standard Rates
Member, Institution of Mechanical Engineers / Institution of Engineering and Technology / Supporting Organisation	£350 + VAT = £420	£450 + VAT = £540
Non-member	£450 + VAT = £540	£550+ VAT = £660
Student/Retired	$\pounds 250 + VAT = \pounds 300$	$\pounds 250 + VAT = \pounds 300$

THREE WAYS TO BOOK

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Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

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The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE

Hotel La Tour Albert Street Birmingham B5 5.JE

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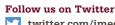
VEHICLE RIDE AND HANDLING: SPECIALIST ENGINEERING FOR **AN IMPROVED EXPERIENCE**

18 October 2017, Birmingham

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