

RRUKA

Annual Conference 2017



16 November, Kings Place. London



RRUKA
RAIL RESEARCH
UK ASSOCIATION

08:45	Arrival coffee and registration
09:10	Opening Remarks <i>Luisa Moisiso, R&D Programme Director, RSSB & Industry Co-Chair RRUKA</i>
09:20	Keynote Address <i>Ernesto Sicilia, Chairman and Managing Director, Trenitalia & Marco Caposciutti, Engineering Director, Trenitalia</i>
09:35	Academic partnerships: past, present and future <i>Sharon Odetunde, RSSB and Clive Roberts, University of Birmingham</i> <ul style="list-style-type: none"> • RRUKA: The journey so far • UKRRIN: What is it and why do we need it? • A proposal for the future of academic partnerships
10:05	Research Presentations: <ul style="list-style-type: none"> • Time spent by passengers at stations <i>Taku Fujiyama, University College London</i> • Benefits of mechatronically-guided vehicles on railway track switches <i>Nabilah Farhat, Loughborough University</i> <p style="text-align: center;">Q&A</p>
10:30	10:30 – 11:05 Coffee Break and Exhibition Viewing (Battlebridge Room)
11:15	Robotics and Autonomous Systems for Rolling Stock Maintenance (#rrukaRobotics) Session Chair: Neil Drury, South Western Trains <ul style="list-style-type: none"> • Feasibility study for robust automated servicing of passenger train fluids <i>Mark Atherton, Brunel University</i> • Cab-front cleaning robot <i>Tetsuo Tomiyama, Cranfield University and Mustafa Suphi Erden, Heriot Watt University</i> • Feasibility of the use of autonomous robotic systems for wheelset reworking <i>Stephen Kent, University of Birmingham</i> <p style="text-align: center;">Q&A</p>
12:00	Research Presentations: Elevator Pitches Session Chair: Roger Goodall, Loughborough University & University of Huddersfield <ul style="list-style-type: none"> • Introduction to session

	<ul style="list-style-type: none"> • Incentives for innovation in the European rail industry <i>Chris Nash, University of Leeds</i> • Low Adhesion Braking Dynamic Optimisation for Rolling Stock (LABRADOR) simulation model <i>Hamid Alturbeh, University of Huddersfield</i> • Railway pantograph dynamic behaviour measurement and fault diagnosis <i>Tingyu Xin, University of Birmingham</i> <p>Q&A</p>
12:35	Morning session wrap-up <i>Luisa Moisiso, R&D Programme Director, RSSB & Industry Co-Chair RRUKA</i>
12:40	Lunch Break and Exhibition Viewing (Battlebridge Room)
14:00	Introduction to afternoon session <i>Stuart Hillmansen, Senior Lecturer in Electrical Energy Systems, University of Birmingham & Academic Co-Chair RRUKA</i>
14:05	Research Presentations: Elevator Pitches Session Chair: Roger Goodall, Loughborough University & University of Huddersfield <ul style="list-style-type: none"> • The continuously connected customer <i>Juliet Jain, University of the West of England, Bristol</i> • Evaluation of dependency between the urban water system and railway: The scenario of track flooding caused by water main burst <i>Samane Faramehr, University College London</i> • Deployment of available rail steels to reduce life cycle costs <i>Adam Bevan, University of Huddersfield</i> <p>Q&A</p>
14:30	Case Studies <ul style="list-style-type: none"> • The SmartDrive project <i>Stuart Hillmansen, University of Birmingham</i> • Integrating real-time performance measurement and simulation to improve mobility and value in rail <i>Larry Fawkner, Cogitare</i> <p>Q&A</p>
15:00	Networking Break and Exhibition Viewing (Music Foyer)
15:35	Keynote Address <i>Iain Roche, Head of Innovation, HS2</i>
15:50	RRUKA Best Young Researcher Award <ul style="list-style-type: none"> • Mapping of the electromagnetic environment on the railway: condition monitoring of signalling assets <i>Alexander Knight-Percival, Unipart Rail & Manchester Metropolitan University</i>
16:15	Reflections and closing remarks <i>Stuart Hillmansen, Senior Lecturer in Electrical Energy Systems, University of Birmingham & Academic Co-Chair RRUKA</i>
16:25	Close and start of drinks reception