

UKRRIN Inspire: How can we deliver RTS 2024?

10:30 – 15:30 15 October, University of Huddersfield

AGENDA

10:00	ARRIVAL (Opportunity to attend IRR tour)
10:40	Welcome and Introductions Paul Allen, Director – Institute of Railway Research, University of Huddersfield
10:45	Opening Keynote Address Abi Hayes, Director, Public Transport and Rail Strategy and Rail Analysis, Department for Transport
11:00	RTS 2024 Presentation <i>An introduction to the Rail Technical Strategy 2024 and each of the three refreshed priorities: Low Emissions, Efficient and Reliable Assets, and Optimised Train Operations.</i> <ul style="list-style-type: none"> • RTS Introduction: Luisa Moisio, Director of Research, RSSB • Low Emissions Priority: Clive Burrows, Group Engineering Director, First Group • Efficient and Reliable Assets Priority: John Edgley, Chief Track and S&C Engineer, Network Rail • Optimised Train Operations: David Horne, Managing Director, LNER
11:20	RTS 2024 Panel Discussion <i>Industry sponsors will participate in this joint panel to reflect on the role of the RTS, and the technical progress needed to deliver the railway our customers want and need.</i> Chaired by: Joanna Binstead, Head of Education and Skills Siemens Mobility , General Manager NTAR , Chair of UKRRIN ,
11:40	UKRRIN Insights on Optimised Train Operations <i>Case studies showcasing research in the optimised train operations space.</i> <ul style="list-style-type: none"> • Automated Driver Competency Indicators Marcus Carmichael, RSSB University of Huddersfield, Cogitare, C2C • R&D of Digital Twin Model for West Midlands Railway Network Lei Chen, University of Birmingham West Midlands Rail Executive, West Midlands Railway, Network Rail • Developing the Red Aspect Approach to Signals Toolkit (RAATS) to give a richer picture of operational data Julian Stow University of Huddersfield RSSB
11:55	Q&A Chaired by Joanna Binstead



12:05	<p>UKRRIN Insights on Low Emissions</p> <p>Case studies showcasing research in the low emissions priority space.</p> <ul style="list-style-type: none"> <p>Optimising pantograph-OLE interaction for lower cost electrification João Pombo, University of Huddersfield Bristol University, Network Rail, Wabtec and Brecknell Willis</p> <p>Performance and sustainability metrics for optimisation of steel sleeper deployment Jacob Whittle, University of Sheffield, and Jake Corteen British Steel</p> <p>The Carbon Fibre Railway Axle Sam Hawksbee, University of Huddersfield University of Nottingham, Advanced Composite Structures-Australia, Network Rail, Lucchini, Rolls-Royce</p>
12:20	Q&A Chaired by Joanna Binstead
12:30	<p>LUNCH BREAK AND NETWORKING</p> <p><i>Lunch and networking with opportunities to share your thoughts via an RTS interactive activity and tour IRR facilities.</i></p>
14:15	<p>UKRRIN Insights on Efficient and Reliable Assets</p> <p>Case studies showcasing research and initiatives in the efficient and reliable assets space.</p> <ul style="list-style-type: none"> <p>Making the most of WILD data Phil Shackleton, University of Huddersfield RSSB, Network Rail, Freightliner, VTG Rail UK</p> <p>Rail Measurement and Inspection based on Multi-sensor Integration and Deep Learning Edd, Stewart, University of Birmingham</p> <p>Optimising rail grinding practice for premium rail materials University of Sheffield British Steel</p> <p>Fibre Derived Measurement: Optical Fibres on the Rail David Milne, University of Southampton Network Rail</p> <p>Demonstration of autonomous ultrasonic AI inspections Isidro Durazo Cardenas, Cranfield University Network Rail</p> <p>LABRADOR: Simulating braking performance for more reliable operations Julian Stow, University of Huddersfield and Sharon Odetunde, RSSB</p>
14:45	Q&A Chaired by Paul Allen
15:00	<p>Closing Keynote Address</p> <p>Ian Duncan, Head of Siemens Mobility Rolling Stock Engineering Life Cycle, Siemens Mobility</p>
15:15	<p>Closing Remarks</p> <p>Paul Allen, Director – Institute of Railway Research, University of Huddersfield</p>
15:30	EVENT CLOSE

