

# TRAFFIC MANAGEMENT SYSTEMS: MAKING THE MOST OF THEM

Institution of  
**MECHANICAL  
ENGINEERS**

HOSTED WITH:

**IRSE** ///

Institution of Railway Signal Engineers

## SEMINAR SPEAKERS INCLUDE:

Andy Doherty, Chief Technology Officer  
**Network Rail**

Ivan Curties, Principal Project Engineer  
(Control & Information)  
**Transport for London**

Daniel Achermann, Senior Expert on Traffic  
Management Systems  
**Swiss Federal Railways**

Pio Guido, Head of the European Rail Traffic  
Management Systems (ERTMS) Unit  
**European Union Agency for Railways (ERA)**

Railway Division  
**Seminar**

**26 June 2018**  
One Birdcage Walk, London



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## SUPPORTING ORGANISATIONS:



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# TRAFFIC MANAGEMENT SYSTEMS: MAKING THE MOST OF THEM

26 June 2018, One Birdcage Walk, London

## WITH TRAFFIC MANAGEMENT SYSTEMS (TMS) BEING USED IN BOTH UNDERGROUND AND MAINLINE RAILWAY, NOW IS THE TIME FOR THE INDUSTRY TO UNDERSTAND HOW TO OPTIMISE THEIR USE IN RAIL.

Hosted with the Institution of Railway Signal Engineers, this is the only seminar to focus on TMS and the implications of their use for all types of rail. Hear about the latest trials of TMS on mainline rail as well as lessons learnt from underground use. Gain insight into the vision for the Digital Railway and the implications for your infrastructure and train-borne signalling systems. Understand the management of factors such as safety margins and braking that will be needed to support the modern Digital Railway. Engage with key players in rail from signalling engineers to rolling stock operators from across the UK and Europe to discuss the future of Traffic Management Systems.

### KEY PROGRAMME HIGHLIGHTS:

- **European Union Agency for Railways (ERA)** detail the implications of TMS within the wider European context
- **Swiss Federal Railways** deliver an international case study on optimising traffic management
- **Transport for London** discuss deployment of TMS on the London Underground and its applicability to mainline rail
- **Network Rail** share insights into Digital Railway technology developments
- **Rail Delivery Group** provide an update on the RSSB sanding trial

### ORGANISING COMMITTEE:

Railway Division  
**Institution of Mechanical Engineers**

### MEMBERS CREDITS:

James Collinson, Director  
**Network Certification Body (NCB)**

Rashid Wahidi, Head of  
Plant and Traction & Rolling  
Stock  
**Network Rail**

Andrew Simmons, Chief  
Systems Engineer  
**Digital Railway**

Iain Flynn  
**Independent**

Martin Fenner, Head of  
Control Systems  
**SNC-Lavalin**

Graham Neil, Professional  
Head of Vehicles  
**Transport for London**

### ATTEND THIS SEMINAR TO:

- Hear from leading organisations in rail with their perspectives on the systems including **Network Rail, Transport for London, ERA and Rail Delivery Group**
- Gain greater clarity into Traffic Management Systems and **how they can benefit the running of your systems**
- Learn about **current use of TMS** on the underground and trials on the mainline and take back lessons learnt to your organisation
- **Gain best practice in managing safety margins** when applying different signalling systems
- **Network and engage with key players in TMS** such as train operators, rolling stock manufacturers, systems engineers and regulators

### FEEDBACK FROM PAST RAIL SIGNALLING EVENTS:

“““

**The Institution of Railway Signal Engineers and the Institution of Mechanical Engineers is a winning combination in providing an in-depth view on revolutionary railway technology**

**Infrabel**

“““

**Very informative, good presentations and useful feedback sessions**

**South Western Railway**

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CONDITIONS  
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# PROGRAMME

TUESDAY, 26 JUNE 2018	
08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b> James Collinson, Director, Network Certification Body (NCB)
	<b>THE VISION FOR TRAFFIC MANAGEMENT SYSTEMS (TMS)</b>
09:10	<b>INTRODUCTION TO THE DIGITAL RAILWAY SYSTEM OF SYSTEMS</b> Anders Daniel Moeller, Head of System Requirements & Integration, Digital Railway
09:40	<b>LONG-TERM EVOLUTION OF TMS: COMPATIBILITY WITH ERTMS</b> Pio Guido, Head of the European Rail Traffic Management Systems (ERTMS) Unit, European Union Agency for Railways (ERA)
10:10	<b>QUESTION AND ANSWER SESSION</b>
10:20	NETWORKING REFRESHMENT BREAK
	<b>IMPLEMENTATION OF TRAFFIC MANAGEMENT SYSTEMS</b>
10:50	<b>TMS ON LONDON UNDERGROUND AND ITS APPLICABILITY TO MAINLINE RAIL</b> Ivan Curties, Principal Project Engineer (Control & Information), Transport for London
11:20	<b>EARLY UK TRAFFIC MANAGEMENT DEPLOYMENTS: BENEFITS, STATUS AND LESSONS LEARNED</b> Andy Bourne, Senior Technical Director, Arcadis
11:50	<b>THE SWISS WAY TO OPTIMISE CAPACITY FOR TRAFFIC MANAGEMENT</b> Daniel Achermann, Senior Expert on Traffic Management Systems, Swiss Federal Railways
12:20	<b>QUESTION AND ANSWER SESSION</b>
12:35	NETWORKING LUNCH
	<b>OTHER SYSTEMS NEEDED TO SUPPORT THE MODERN DIGITAL RAILWAY</b>
13:35	<b>INSIGHT INTO DIGITAL RAILWAY TECHNOLOGY DEVELOPMENTS</b> Andy Doherty, Chief Technology Officer, Network Rail
14:05	<b>PREDICTABLE AND OPTIMISED BRAKING: A CHALLENGE FOR SUCCESSFUL MAINLINE TRAFFIC MANAGEMENT OPERATION</b> Neil Ovenden, Engineering Supply Chain Lead, Rail Delivery Group
14:35	<b>TMS ASSURANCE AND SAFETY ISSUES</b> Speaker to be confirmed
15:05	<b>QUESTION AND ANSWER SESSION</b>
15:20	NETWORKING REFRESHMENT BREAK
15:50	<b>CUMULATIVE RISK: SAFETY MARGINS AND THE LONDON UNDERGROUND EXPERIENCE</b> Ian Hersey, Senior Engineer – Signalling, Transport for London Matthew Hattersley, Discipline Engineer (Signalling), Transport for London
16:20 Panel Discussion	<b>THE FUTURE OF TMS FOR RAIL</b> <ul style="list-style-type: none"> <li>Where is the GB 'guiding mind' for TMS enabling it to function safely and effectively as part of the broader digital rail system?</li> <li>How can cumulative risk enable TMS to recover perturbation effectively?</li> <li>How can rail vehicle engineers work with signalling engineers to minimise the unnecessary levels of safety margins?</li> </ul>
16:55	<b>CHAIR'S CLOSING REMARKS</b>
17:00	END OF SEMINAR

For the most up-to-date and detailed programme for the event, please visit [www.imeche.org/tms](http://www.imeche.org/tms)

- 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	Standard Rate
Member, Institution of Mechanical Engineers / Member, Institution of Railway Signal Engineers / Supporting Organisation	£180 + VAT = £216
Non-member	£220 + VAT = £264
Student/Retired	£120 + VAT = £144

Group booking discounts are available. Contact us for more information.

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- 1 Online:  
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- 2 Email:  
[eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)
- 3 Phone:  
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Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

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Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

#### SPECIAL REQUIREMENTS

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For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full

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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 cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the 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.

#### LIABILITY

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#### CONFERENCE VENUE

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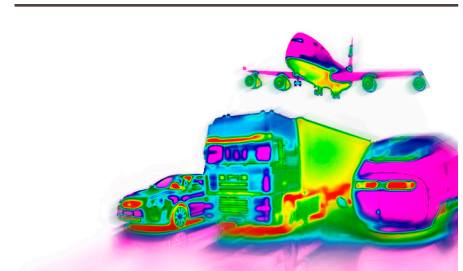


### NOISE, VIBRATION AND HARSHNESS

**22 May 2018, Birmingham**

Attend this seminar to address the challenges in design, measurement and analysis of noise, vibration and harshness across complex systems.

[www.imeche.org/nvh2018](http://www.imeche.org/nvh2018)



### THERMAL ENGINEERING FOR TRANSPORT: DESIGN, MEASUREMENT AND OPTIMISATION

**13 June 2018, Birmingham**

This specialist seminar addresses the latest developments in thermal management across the aerospace, automotive and rail sectors.

[www.imeche.org/thermalengineering](http://www.imeche.org/thermalengineering)

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