

ATO THE FUTURE OF MAINLINE RAILWAY?

Institution of
**MECHANICAL
ENGINEERS**

HOSTED WITH:



IRSE
INSTITUTION OF
RAILWAY SIGNAL
ENGINEERS

KEY SPEAKERS INCLUDE:



Josef Doppelbauer
Executive Director
European Union Agency for Railways



David Waboso
Managing Director
Digital Railway (Network Rail)



Benoît Bienfait
Intercity/ATO System Manager
Alstom Transport



Miroslav Obrenovic
Vice President Asset Strategy & Programs
DB Cargo



Jack Ratcliffe
ATC System Engineer
Bombardier Transportation



David Harbage
Senior Programme Engineer
Network Rail

Rail Division
Seminar

16 February 2017
Institution of Mechanical Engineers
One Birdcage Walk, London

More details available at
www.imeche.org/ato



EVENT PARTNERS



Railway Industry Association



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ATO THE FUTURE OF MAINLINE RAILWAY?

16 February 2017

One Birdcage Walk, London

ATTEND THE ONLY SEMINAR THAT WILL FOCUS ON THE BENEFITS OF USING AUTOMATIC TRAIN OPERATION (ATO), INCLUDING HOW IT ENABLES HIGH-CAPACITY RAIL OPERATION WITH LESSONS LEARNT FROM ITS IMPLEMENTATION ABROAD.

This must-attend event will focus on the benefits of ATO for mainline rail in the UK. Hear from metro and underground lines that have been using the system for years and gain an understanding of the ATO system as a whole, along with the benefits and risks associated with its implementation.

Address the critical issue of where the technical integration for ATO comes from, signal or rolling stock, and the importance of both sides' engineers working together to optimise the performance. Not only will the event feature practical case studies of ATO implementation but also the regulatory requirements for its implementation. Don't miss out on the opportunity to network with key players in rail from the UK and Europe to discuss the future of ATO along with the future of mainline rail.

KEY PROGRAMME HIGHLIGHTS:

- Receive an exclusive update from both the **European Union Agency for Railways** and **Digital Railway** about their plans for ATO
- Learn from **DB Cargo AG** about the successful automation digitisation in European Rail Freight
- Hear about the Next Generation Train Control Project (NGTC) from **Thales Transportation**
- **Systransis** discuss Holistic Rail Network Operation by Integration of Train Automation and Traffic Management
- **Network Rail** deliver their experience of integration testing of ATO over ETCS on Thameslink
- The **Network Certification Body** provide an overview of the process of authorising the ATO system
- **Bombardier Transportation** share details about maximising train performance within an ATO system

WHY ATTEND:

- Learn about the ATO system and how it could enable a higher capacity rail operation for mainline rail
- Hear from key international metro companies and their experience of railways and systems that have operated ATO
- Gain an exclusive update about plans for optimising ATO and adopting ATO as a standard, interoperable system across the GB network
- Learn about how to manage the safety and reliability risks of ATO technology
- Network and engage with key players in ATO such as train operators, rolling stock manufacturers, systems engineers and regulators

ORGANISING COMMITTEE

Institution of Mechanical Engineers and
Institution of Railway Signal Engineers

MEMBER CREDITS:

James Collinson, Managing Director Network
Certification Body
Network Rail

Andrew Simmons, Chief Systems Engineer
Digital Railway (Network Rail)

Aidan McGrady, Senior ERTMS Engineer
Network Rail

Martin Beable, Fleet Director
LOROL

Graham Neil, Head of Rolling Stock
London Underground

David Harbage, Senior Programme Engineer
Network Rail

Melih Arpaci, Head of Business Management
Mass Transit
Siemens AG

Sam Newcombe,
Rolling Stock Engineer - Train Systems
RSSB

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PROGRAMME

16 FEBRUARY 2017

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS
09:10	KEYNOTE: AUTOMATIC TRAIN OPERATION IN A EUROPEAN CONTEXT Josef Doppelbauer, Executive Director, European Union Agency for Railways
09:35	ATO IN A GREAT BRITAIN CONTEXT David Waboso, Managing Director, Group Digital Railway (Network Rail)
SETTING THE SCENE TO ATO	
10:00	ATO AS PART OF A DIGITAL RAILWAY Aidan McGrady, Senior ERTMS Engineer, Network Rail
10:05	HOLISTIC RAIL NETWORK OPERATION BY INTEGRATION OF TRAIN AUTOMATION AND TRAFFIC MANAGEMENT Xialou Rao, Senior System Engineer, Systransis
10:30	THE NEXT GENERATION TRAIN CONTROL PROJECT (NGTC) – COMMON ATO FOR URBAN AND MAINLINE David Dimmer, Director, Product Strategy, Urban Rail Business Line Thales Transportation Solutions
10:55	NETWORKING REFRESHMENT BREAK
11:25	ATO/DAS OVER ETCS: THE WAY TOWARDS UNATTENDED OPERATION FOR MAINLINES Benoît Bienfait, Intercity/ATO System Manager, Alstom Transport
11:50	SUMMARISING SETTING THE SCENE FOR ATO Aidan McGrady, Senior ERTMS Engineer, Network Rail
CASE STUDIES	
11:55	ATO OVER ETCS ON THAMESLINK David Harbage, Senior Programme Engineer, Network Rail Sundip Laroya, ETCS/ATO Engineer, Siemens Rail Systems
12:20	INNOVATION STRATEGY AT DB CARGO: AUTOMATION AND DIGITISATION IN EUROPEAN RAIL FREIGHT BUSINESS Miroslav Obrenovic, Vice President Asset Strategy & Programs, DB Cargo
12:45	QUESTION AND ANSWER SESSION FOR MORNING SPEAKERS
13:00	NETWORKING LUNCH
14:00	EVOLUTION OF THE SIEMENS PRODUCT LINE: METRO PASSENGER FREIGHT Ray Clifton, Senior Technical Authority ERTMS, Siemens Rail Automation
14:25	METRO CASE STUDY: LONDON UNDERGROUND'S ATO EXPERIENCE Graham Neil, Head of Rolling Stock, London Underground
GIVES AND GETS – THE ROLLING STOCK	
14:50	ROLLING STOCK: THE ROSCO PERSPECTIVE Euan Smith, Head of Product Management, Angel Trains
15:15	NETWORKING REFRESHMENT BREAK
15:45	MAXIMISING TRAIN PERFORMANCE WITHIN AN ATO SYSTEM Jack Ratcliffe, ATC System Engineer, Bombardier Transportation
16:10	AUTHORISING THE ATO SYSTEM Richard Feasby, Senior Conformance Engineer, Network Certification Body (NCB) Bob Calder, Principal Conformance Engineer, Network Certification Body (NCB)
16:35	QUESTION AND ANSWER SESSION FOR AFTERNOON SESSION
16:50	PANEL DISCUSSION: WHAT ARE THE FUTURE OPPORTUNITIES OF ATO?
17:15	CHAIR'S CLOSING REMARKS
17:20	END OF SEMINAR

For the most up-to-date and detailed programme for the event, please visit www.imeche.org/ato

- 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 copies of select presentations.

Fees and charges	Standard Rates
Member, Institution of Mechanical Engineers	£125 + VAT = £150
Member of Supporting Organisation, IRSE	£150 + VAT = £180
Non-member	£200 + VAT = £240
Student/Retired	£99 + VAT = £118.80

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/ato
- 2 Email:
eventenquiries@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.

CONDITIONS OF BOOKING

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

Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

CANCELLATION

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 refund of the fee paid.

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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

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.

VENUE

Institution of Mechanical Engineers
One Birdcage Walk
Westminster
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OTHER EVENTS TO LOOK FOR



RAILWAY DIVISION ANNUAL LUNCHEON 2017

3 March 2017, Grosvenor House, London

The Institution of Mechanical Engineers' Railway Division Annual Luncheon is the 'must attend' event in the railway calendar, attracting over 1100 people from all sectors of the industry.

www.imeche.org/railwayluncheon



THE STEPHENSON CONFERENCE: RESEARCH FOR RAILWAYS

25-27 April 2017, Institution of Mechanical Engineers, London

The pioneering Stephenson Conference returns to bring together international leaders of railway R&D to demonstrate how their work is being implemented with industry professionals.

www.imeche.org/stephenson

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