ATO
THE FUTURE OF MAINLINE RAILWAY?

HOSTED WITH:

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

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TERMS AND CONDITIONS APPLY
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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Registration and refreshments</td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>Chair’s opening remarks</td>
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</tr>
<tr>
<td>09:10</td>
<td>Keynote: Automatic train operation in a European context</td>
<td>Josef Doppelbauer, Executive Director, European Union Agency for Railways</td>
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<tr>
<td>09:35</td>
<td>ATO in a great Britain context</td>
<td>David Waboso, Managing Director, Group Digital Railway (Network Rail)</td>
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<td>10:00</td>
<td>Setting the scene to ATO</td>
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<tr>
<td>10:00</td>
<td>ATO as part of a digital railway</td>
<td>Aidan McGrady, Senior ERTMS Engineer, Network Rail</td>
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<tr>
<td>10:05</td>
<td>Holistic rail network operation by integration of train automation and traffic management</td>
<td>Xiaolou Rao, Senior System Engineer, Sytransis</td>
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<tr>
<td>10:30</td>
<td>The next generation train control project (NGTC) – Common ATO for urban and mainline</td>
<td>David Dimmer, Director, Product Strategy, Urban Rail Business Line</td>
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<td>10:55</td>
<td>Networking refreshment break</td>
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<tr>
<td>11:25</td>
<td>ATO/DAS over ETCS: The way towards unattended operation for mainlines</td>
<td>Benoit Bienfait, Intercity/ATO System Manager, Alstom Transport</td>
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<td>11:50</td>
<td>Summarising setting the scene for ATO</td>
<td>Aidan McGrady, Senior ERTMS Engineer, Network Rail</td>
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<td>11:55</td>
<td>Case studies</td>
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<td>11:55</td>
<td>ATO over ETCS on Thameslink</td>
<td>David Harbage, Senior Programme Engineer, Network Rail</td>
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<td>Sundip Laroya, ETCS/ATO Engineer, Siemens Rail Systems</td>
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<td>12:20</td>
<td>Innovation strategy at DB Cargo: Automation and digitisation in European rail freight business</td>
<td>Miroslav Obrenovic, Vice President Asset Strategy &amp; Programs, DB Cargo</td>
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<tr>
<td>12:45</td>
<td>Question and answer session for morning speakers</td>
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<tr>
<td>13:00</td>
<td>Networking lunch</td>
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<td>14:00</td>
<td>Evolution of the Siemens product line: Metro passenger freight</td>
<td>Ray Clifton, Senior Technical Authority ERTMS, Siemens Rail Automation</td>
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<td>14:50</td>
<td>Rolling stock: the ROSCO perspective</td>
<td>Euan Smith, Head of Product Management, Angel Trains</td>
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<tr>
<td>15:15</td>
<td>Networking refreshment break</td>
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<tr>
<td>15:45</td>
<td>Maximising train performance within an ATO system</td>
<td>Jack Ratcliffe, ATC System Engineer, Bombardier Transportation</td>
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<tr>
<td>16:10</td>
<td>Authorising the ATO system</td>
<td>Richard Feasby, Senior Conformance Engineer, Network Certification Body (NCB)</td>
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<td>Bob Calder, Principal Conformance Engineer, Network Certification Body (NCB)</td>
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<tr>
<td>16:35</td>
<td>Question and answer session for afternoon session</td>
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<td>16:50</td>
<td>Panel discussion: What are the future opportunities of ATO?</td>
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<tr>
<td>17:15</td>
<td>Chair’s closing remarks</td>
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<tr>
<td>17:20</td>
<td>End of seminar</td>
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For the most up-to-date and detailed programme for the event, please visit [www.imeche.org/ato](http://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.

<table>
<thead>
<tr>
<th>Fees and charges</th>
<th>Standard Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member, Institution of Mechanical Engineers</td>
<td>£125 + VAT = £150</td>
</tr>
<tr>
<td>Member of Supporting Organisation, IRSE</td>
<td>£150 + VAT = £180</td>
</tr>
<tr>
<td>Non-member</td>
<td>£200 + VAT = £240</td>
</tr>
<tr>
<td>Student/Retired</td>
<td>£99 + VAT = £118.80</td>
</tr>
</tbody>
</table>

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.

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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.

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

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The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event. Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

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.

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OTHER EVENTS TO LOOK FOR

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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


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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