

# RAIL ELECTRIFICATION: REBUILDING CONFIDENCE

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Institution of  
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ENGINEERS**

HOSTED WITH:



**Railway Industry  
Association**

*The voice of the UK rail supply community*

5 June 2019  
**One Birdcage Walk, London**

Railway Division  
**Seminar**

More details available at:  
[www.imeche.org/railelectrification](http://www.imeche.org/railelectrification)

## SEMINAR SPEAKERS INCLUDE:

Mark Hopwood, Managing Director  
**Great Western Railway**

Richard Stainton, Professional Head, Electrical Power  
**Network Rail**

Mary Hewitt, Strategy and Policy and Director  
**Arriva**

Bill Reeve, Commercial Director  
**Transport Scotland**

Phil Doughty, Professional Head, Contact Systems  
**Network Rail**



EVENT PARTNERS:

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**Railway  
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 **railway-news.com**

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# RAIL ELECTRIFICATION: REBUILDING CONFIDENCE

5 June 2019, One Birdcage Walk, London

**DEVELOPED JOINTLY WITH THE RAILWAY INDUSTRY ASSOCIATION (RIA), THIS SEMINAR WILL REFLECT ON RECENT RAIL ELECTRIFICATION EXPERIENCES TO IDENTIFY LESSONS LEARNED AND EXPLORE WHAT ELECTRIFICATION SHOULD COST. DISCUSS HOW THE INDUSTRY AND GOVERNMENT CAN REGAIN THEIR CONFIDENCE IN ELECTRIFICATION BEING THE FIRST CONSIDERATION IN ANY MOVE TO DECARBONISE THE RAILWAY BY 2040.**

Address the cost and engineering issues being faced by the industry, and how these are being managed by operators and contractors alike. Hear lessons learned from implementation projects to take back to your organisation, including an exclusive review from Network Rail.

This year, presentations will address challenges from the past, how these experiences are shaping current projects and the future of the rail industry and electrification policy.

New for 2019 - Learn about the latest innovations during RIA-led "Unlocking Innovation" sessions relating to:

1. Reducing electrification costs
2. Delivering electrification more effectively

## SEMINAR TOPICS INCLUDE:

- **Transport Scotland** share insights into the changing landscape of rail electrification and what this might mean for current and future projects
- **Network Rail** reflect on recent experiences and discuss lessons learned for future projects
- **Railway Industry Association** discuss ways in which the implementation of electrification can be made economically viable
- **Porterbrook** and **Ricardo** deliver a joint presentation to discuss hybridisation options for the electrification transformation of diesel trains
- **Great Western Railway** share practical insights from current electrification projects

## ATTEND THIS SEMINAR TO:

- Receive exclusive updates on the status of projects going ahead and future electrification plans from **Great Western Railway** and **Network Rail**
- Hear insights from key opinion leaders on the changing landscape of rail electrification and the move towards a policy reset, including **Arriva** and **Transport Scotland**
- Learn about the latest innovations during the RIA-led "Unlocking Innovation" sessions relating to reducing costs and improving delivery
- Take part in an interactive discussion with other industry experts to express your views on the future of electrification policy
- Ask key questions specific to your project needs during the Q&A sessions following each presentation

## ORGANISING / ADVISORY COMMITTEE:

Railway Division

**Institution of Mechanical Engineers**

## MEMBER CREDITS:

Iain Flynn

**Independent Rail Manager and Engineer**

David Clarke, Technical Director,  
**Railway Industry Association**

Martin Beable, Engineering Director,  
**Abellio Greater Anglia**

Martin Elliott, Chief Technical Officer,  
**Ricardo Rail**

Peter Stanton, Senior Engineer,  
**Vertex-SE Ltd**

Andy Mellors, Managing Director,  
**South Western Railway**

BOOK YOUR PLACE TODAY

[WWW.IMECHE.ORG/RAILELECTRIFICATION](http://WWW.IMECHE.ORG/RAILELECTRIFICATION)

TERMS AND  
CONDITIONS  
APPLY

# PROGRAMME

## WEDNESDAY, 5 JUNE 2019

08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b>
09:10 <b>KEYNOTE ADDRESS</b>	<b>THE CHANGING LANDSCAPE OF RAIL ELECTRIFICATION</b> Bill Reeve, Commercial Director, Transport Scotland
09:35	<b>QUESTION AND ANSWER SESSION</b>
09:40	<b>DOING IT BETTER NEXT TIME: REFLECTING ON RECENT EXPERIENCE</b> Phil Doughty, Professional Head, Contact Systems, Network Rail
10:00	<b>WHAT THE GOVERNMENT WANTS AND NEEDS FROM INDUSTRY</b> Speaker to be confirmed
10:20	<b>ELECTRIFICATION: THE SILVER BULLET</b> Stephen Kent, Research Fellow, University of Birmingham
10:40	<b>QUESTION AND ANSWER SESSION</b>
10:55	<b>NETWORKING REFRESHMENT BREAK</b>
11:25	<b>MAKING ELECTRIFICATION ECONOMICALLY VIABLE</b> David Clarke, Technical Director, Railway Industry Association
11:45	<b>PRACTICAL LESSONS FROM ELECTRIFICATION PROJECTS</b> Brian Sweeney, Senior Project Engineer, Network Rail
12:05	<b>Presentation to be announced</b> Steve Cox, Engineering and Technical Director SS&I UK, Alstom
12:25	<b>QUESTION AND ANSWER SESSION</b>
12:40	NETWORKING LUNCH
13:40	<b>HYBRID ELECTRIFICATION IN REAL LIFE – GREAT WESTERN ELECTRIFICATION</b> Mark Hopwood, Managing Director, Great Western Railway
14:00	<b>QUESTION AND ANSWER SESSION</b>
14:05	<b>RAILWAY INDUSTRY ASSOCIATION-LED SESSION: UNLOCKING INNOVATION</b> A series of 5 short presentations looking at innovation and alternative projects, proposals and new technologies.
14:25	<b>25 KV ELECTRIFICATION WITH LOW VOLTAGE CLEARANCES – REDUCING THE COST OF ELECTRIFICATION</b> Richard Stainton, Professional Head, Electrical Power, Network Rail
14:45	<b>PUTTING ELECTRICITY INTO DIESEL TRAINS: CLEANING CITY AIR</b> Helen Simpson, Head of Innovation and Technical Services, Porterbrook Stephen Gossling, Senior Consultant, Ricardo
15:05	<b>QUESTION AND ANSWER SESSION</b>
15:25	NETWORKING REFRESHMENT BREAK
15:55 <b>PANEL DISCUSSION</b>	<b>WHAT DOES THE INDUSTRY THINK ELECTRIFICATION POLICY SHOULD BE?</b> Mark Gaynor, Interim Director of Planning, Engineering and Operations, Rail Delivery Group David Clarke, Technical Director, Railway Industry Association James Abbott, Editor, Modern Railways Peter Dearman, Electrification Advisor, Bechtel
16:25 <b>KEYNOTE SPEAKER</b>	<b>REMINING OURSELVES WHAT RAILWAYS ARE FOR, AND THE ROLE OF ELECTRIFICATION AND OTHER POWER SOLUTIONS</b> Mary Hewitt, Strategy and Policy Director, Arriva
17:00	<b>QUESTION AND ANSWER SESSION</b>
17:05	<b>CHAIR'S CLOSING REMARKS</b>
17:10	END OF SEMINAR

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

- 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.

Delegate Type	EARLY BIRD RATE Until 26 April 2019	STANDARD RATE
Member, Institution of Mechanical Engineers / Supporting Organisation	£260 + VAT = £312	£290 + VAT = £348
Non-member	£350 + VAT = £420	£390 + VAT = £468
Full-time Student/Retired	£90 + VAT = £108	£100 + VAT = £120

## THREE WAYS TO BOOK

- 1 online:  
[www.imeche.org/railelectrification](http://www.imeche.org/railelectrification)
- 2 email:  
[eventenquiries@imeche.org](mailto: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 the booking form or email [eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)

### 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. 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.

### 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.

### CONFERENCE VENUE

Institution of Mechanical Engineers  
One Birdcage Walk  
Westminster  
London  
SW1H 9JJ

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## Institution of MECHANICAL ENGINEERS

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1 Birdcage Walk  
Westminster  
London  
SW1H 9JJ  
T +44 (0)20 7222 7899  
[www.imeche.org](http://www.imeche.org)

# FORWARD THINKING

We are the market leader among professional engineering bodies. We've been supporting engineers since 1847 and have 120,000 members in over 140 countries, working in the world's most dynamic and important industries. Our comprehensive events programme brings you the latest research and best practice from industry and academia.

## OTHER EVENTS TO LOOK FOR



### ATO: INTEGRATION TO ACHIEVE A TRULY INTEROPERABLE SYSTEM

9 May 2019, London

Address the critical issue of the technical integration for ATO and the importance of Signal and Rolling Stock engineers working together to optimise performance. This event will feature case studies and detail the regulatory requirements for its implementation. Network with key players in rail from the UK and Europe to discuss ATO along with the future of mainline rail.

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



### THE FUTURE OF RAIL: YOUNG ENGINEERS' PRESENTATION COMPETITION AND RAILWAY DIVISION AGM

13 May 2019, London

Each year, the Institution of Mechanical Engineers' Railway Division holds a competition of technical presentations. Attend this competition which is open to all young railway engineers including apprentices, undergraduates and those in the early stages of their career. Plus, don't miss the Railway Division AGM taking place straight after the competition.

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

The Institution of Mechanical Engineers organises over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit [www.imeche.org/events](http://www.imeche.org/events) for the complete list of events.

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