

RAIL ELECTRIFICATION 2017: ADDRESSING THE CHALLENGES AND DESIGNING FOR THE FUTURE

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5 MAY 2017

Institution of
**MECHANICAL
ENGINEERS**

Railway Division
Seminar

6 June 2017
One Birdcage Walk, London

KEY SPEAKERS INCLUDE:

Nick Woodbridge, Principal Programme Client
(GWML)

Department for Transport

Phil Doughty, Professional Head of Contact Systems
Network Rail

Gerry McFadden, Engineering Director
Govia Thameslink Railway

Rishi Ravindran, Depot Engineering Manager
Great Western Railway

Steve Cox, Engineering and Technical Director
Alstom Transport UK & Ireland, SS&I



SUPPORTING ORGANISATION:



Railway Industry Association

EVENT PARTNERS:



topEngineer



modern
railways



Save 10% before 5 May 2017 www.imeche.org/railelectrification

RAIL ELECTRIFICATION 2017: ADDRESSING THE CHALLENGES AND DESIGNING FOR THE FUTURE

6 June 2017

One Birdcage Walk, London

WITH RAIL ELECTRIFICATION PROJECTS RECOMMENCING, HEAR ABOUT THEIR CURRENT STATUS, THE LATEST TECHNOLOGIES AND THE OPPORTUNITIES AVAILABLE IN THE SECTOR.

Gain insight into 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 update on the Great Western Railway Electrification project. Benefit from the opportunity to meet with key leaders in electrification from operators, contractors and government.

NEW FOR 2017:

Take the opportunity to be part of the discussion on the future of electrification in our "Ask the Experts" panel.

KEY PROGRAMME HIGHLIGHTS:

- **Network Rail** reveal the latest developments for their contact system design
- The **Department for Transport** present a case study on electrifying Brunel's Railway complete with lessons learned
- Receive an exclusive update on the **Great Western Railway** electrification project
- Gain insight into energy management and modern rolling stock from **Govia Thameslink Railway**
- **TSO Caténaires** share an international perspective on High Speed Line Electrification and Strategic OLE Renewal Projects
- Hear from **Bechtel** on the status of current and future electrification projects

FEEDBACK FROM THE LAST EVENT:

“““

A fantastic seminar, providing an industry update on electrification programmes and technology. A must for those wanting to deepen understanding and stay up-to-date with industry practice

Balfour Beatty

“““

I learnt more about state of the art UK railway electrification here in one day than I could in a year of research

Atkins

ATTEND THIS EVENT TO:

- Receive an exclusive update on the status of projects going ahead and future electrification plans
- Hear case studies and take away lessons learned from **Great Western Railway, Govia Thameslink Railway, Crossrail and Transport Scotland**
- Gain an international perspective from a **TSO Caténaires** case study and take the lessons learned back to your organisation
- Learn about the latest initiatives to complement electrification technology such as contact system design
- Network with key leaders in electrification including principal engineers, project managers and directors

ORGANISING COMMITTEE:

Railway Division
Institution of Mechanical Engineers

MEMBERS CREDITS:

Peter Stanton
Independent Railway Engineering Consultant

Stuart Hillmansen, Senior Lecturer,
Electrical Energy Systems,
University of Birmingham

Graham Neil, Head of Rolling Stock
London Underground

Mark Proctor, Head of Electrification
Office of Rail & Road

**BOOK EARLY AND SAVE UP TO 10%
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TERMS AND CONDITIONS APPLY

PROGRAMME

TUESDAY, 6 JUNE 2017

08:30 REGISTRATION AND REFRESHMENTS

09:00 MORNING CHAIR'S OPENING REMARKS
Stuart Hillmansen, Senior Lecturer, Electrical Energy Systems
University of Birmingham

09:10 STATUS UPDATE ON ELECTRIFICATION IN THE UK AFTER THE PAUSE
KEYNOTE Peter Dearman, Electrification Advisor, Bechtel

09:35 THE LEGACY OF ELECTRIFYING BRUNEL'S RAILWAY
Nick Woodbridge, Principal Programme Client (GWML), Department for Transport

10:00 ENERGY MANAGEMENT AND MODERN ROLLING STOCK: AN OPERATOR'S VIEW
Gerry McFadden, Engineering Director, Govia Thameslink Railway

10:25 QUESTION AND ANSWER SESSION

10:40 NETWORKING REFRESHMENT BREAK

INNOVATIVE SYSTEMS TO COMPLEMENT ELECTRIFICATION

11:10 DEVELOPMENT OF OVERHEAD CONTACT SYSTEM DESIGN AND THE APPLICATION FOR FUTURE PROJECTS
Phil Doughty, Professional Head of Contact Systems, Network Rail

11:35 THE NEED FOR INNOVATION IN ELECTRIFICATION
Steve Cox, Engineering and Technical Director, Alstom Transport UK & Ireland, SS&I

12:00 DESIGNING AN OLE SYSTEM FOR HIGH OUTPUT CONSTRUCTION
Rob Daffern, Principal Engineer, Furrer+Frey GB

12:25 QUESTION AND ANSWER SESSION

12:40 NETWORKING LUNCH

AFTERNOON CHAIR
Peter Stanton, Independent Railway Engineering Consultant

CASE STUDIES ON ELECTRIFICATION IMPLEMENTATION

13:40 AN OPERATOR'S VIEW ON ELECTRIFICATION: GREAT WESTERN RAILWAY
Rishi Ravindran, Depot Engineering Manager, Great Western Railway

14:05 DESIGN AND CONSTRUCTION FOR GREAT WESTERN RAILWAY
Garry Keenor, Group Engineer & CRE Overhead Line for Lead Design Organisation (Atkins), GW Electrification

14:30 DELIVERING AND PROGRESSING HIGH SPEED LINE ELECTRIFICATION AND STRATEGIC OLE RENEWAL PROJECTS
Sebastien Lustro, Rail Electrification Director, TSO Caténaires

14:55 QUESTION AND ANSWER SESSION

15:10 NETWORKING REFRESHMENT BREAK

15:40 CROSSRAIL: POWER FOR THE TRAINS
Phil Hinde, Principal Engineer, Rolling Stock and Depots, Crossrail

16:05 ELECTRIFICATION: SCOTTISH SUCCESS
Bill Reeve, Director of Rail, Transport Scotland

16:30 QUESTION AND ANSWER SESSION

16:40 ASK THE EXPERTS: THE FUTURE OF ELECTRIFICATION
PANEL DISCUSSION Peter Dearman, Electrification Advisor, Bechtel
Phil Doughty, Professional Head of Contact Systems, Network Rail
Nick Woodbridge, Principal Programme Client (GWML), Department for Transport
Delegates will have the opportunity to ask industry experts about what would be needed in terms of projects and technology to move the implementation of rail electrification forward.

17:20 CHAIR'S CLOSING REMARKS

17:30 END OF SEMINAR

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

- 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 and Workshop	Early Bird Rate Until 5 May 2017	Standard Rate
Member, Institution of Mechanical Engineers / Supporting Organisation	£260 + VAT = £312	£290 + VAT = £348
Non-member	£350 + VAT = £420	£390 + VAT = £468
Student/Retired	£90 + VAT = £108	£100 + VAT = £120

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

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/railelectrification
- 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 the booking form or email 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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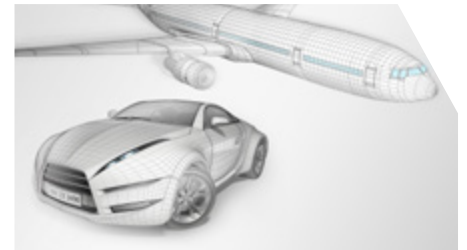
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OTHER EVENTS TO LOOK FOR



SIMULATION AND MODELLING 2017

12-13 September 2017, Birmingham

Take away cross-industry insights from the aerospace and automotive industries who are utilising simulation and modelling to drive down costs, reduce inefficiencies and eradicate costly prototypes.

www.imeche.org/simulationandmodelling



CAPACITY OR PERFORMANCE – EITHER OR BOTH?

14 November 2017, London

This seminar will feature key industry leaders share solutions to rising capacity and deteriorating performance on the rail network.

www.imeche.org/capacityorperformance

The Institution of Mechanical Engineers organises over 120 events a year, including lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

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