

# INTERNATIONAL RAIL ACCIDENT INVESTIGATION CONFERENCE

Institution of  
**MECHANICAL  
ENGINEERS**

Railway Division  
**Conference**

**15–16 November 2016**  
One Birdcage Walk, London

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



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Railway Industry Association



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# WHY ATTEND INTERNATIONAL RAIL ACCIDENT INVESTIGATION CONFERENCE

15–16 November 2016

One Birdcage Walk, London

**JOIN US FOR THE INSTITUTION OF MECHANICAL ENGINEERS' FOURTH INTERNATIONAL RAIL ACCIDENT INVESTIGATION CONFERENCE. THIS IS YOUR OPPORTUNITY TO HEAR BEST PRACTICE INVESTIGATION PROCESSES, TOOLS AND EXPERIENCES FROM ACROSS THE GLOBE.**

This two-day conference will share experiences and provide delegates with the opportunity to interact and further learn about aspects of investigation in 3 workshop sessions. Lectures and workshops on dedicated elements of accident investigation will offer concentrated learning opportunities, helping accident investigators to better undertake their activities.

Meet the speakers and other professionals connected with investigation in the rail industry to discover best practice across the globe.

## KEY PROGRAMME HIGHLIGHTS:

- Gain insight into strategies from investigation teams from the **National Transportation Safety Board (NTSB)** and the **Rail Accident Investigation Branch (RAIB)**
- Understand methods for handling investigation outcomes with **Network Rail** and the **Finish Transport Safety Agency**
- Hear from the **European Railway Agency (ERA)** on designing to remove risk.
- Select 3 of 7 workshops to attend addressing **communications following an accident, investigating fatigue, causal analysis, use of drone technology, investigation of safety management systems, derailments** and investigation of **ERTMS**
- Utilising tools and techniques with presentations from **Infrabel** and **The Transport Accident Investigation Commission of New Zealand (TAIC)**
- Address technical solutions with the **Japanese Transport Safety Board, Avinor** and the **Rail Safety and Standards Board (RSSB)**

## WHY ATTEND:

- Hear from our international speaker panel including representatives from America, New Zealand, Japan and Europe
- Select and attend three interactive workshops addressing core topics and challenges for accident investigation
- Network with industry thought leaders throughout the two day conference and at the evening reception
- Develop skills and knowledge relevant to accident investigation
- Keep up-to-date with rail accident investigation strategy, tools and techniques

## NAME OF COMMITTEE:

Railway Division

**The Institution of Mechanical Engineers**

## MEMBERS CREDITS:

Carolyn Griffiths, NED Irish Rail, Deputy President IMechE, Senior Rail Professional and former Chief Inspector

**Rail Accident Investigation Branch (RAIB)**

Kurt Olsen, Director

**Railway Department, Accident Investigation Board, Norway (AIBN)**

Johan Gustafsson, Head of Department

**Swedish Accident Investigation Authority**

Stuart Johnson, Principal Inspector

**Rail Accident Investigation Branch**

David Murton, Chief Investigator

**Railway Accident Investigation Unit (Ireland)**

Mick James, Professional Head of Plant

**Rail Safety and Standards Board**

James Collinson, Managing Director

**Network Rail**

Graham Neil, Head of Rolling Stock

**London Underground**

Martin Hayhoe, Executive Consultant

**Ricardo Rail**

Anneke Bovens, Research Manager/Deputy Secretary-Director

**Safety Board, Netherlands**

Jim Lupton, Deputy Technical Director

**Railway Industry Association**

# PROGRAMME

DAY 1	15 NOVEMBER 2016
08:30	<b>REGISTRATION AND REFRESHMENTS</b>
09:10	<b>CHAIR'S OPENING REMARKS</b>
09:25	<b>HUMAN PERFORMANCE VARIABILITY, UNLOCKING BETTER SAFETY</b> Chris Carr, Head of Safety Unit, European Railway Agency (ERA)
	<b>QUESTIONS OF STRATEGY FOR THE INVESTIGATION TEAM</b>
09:45	<b>COMMUNICATING AFTER TRANSPORTATION ACCIDENTS: THE EXPERIENCE OF THE U.S. NATIONAL TRANSPORTATION SAFETY BOARD</b> Paul Sledzik, Deputy Director, Office of Safety Recommendations and Communications, National Transportation Safety Board (NTSB)
10:10	<b>SELECTING INVESTIGATIONS TO MAXIMISE SAFETY LEARNING</b> John Stewart, Principal Inspector, Railway Accident Investigation Branch (RAIB)
10:35	<b>QUESTION AND ANSWER SESSION</b>
10:50	<b>NETWORKING REFRESHMENT BREAK</b>
	<b>HANDLING INVESTIGATION OUTCOMES</b>
11:15	<b>THE OPERATORS' VIEW: MANAGING ACCIDENT INVESTIGATION OUTCOMES</b> Brian Tomlinson, Director of Risk, Analysis & Assurance, Network Rail
12:05	<b>THE SAFETY AUTHORITY'S VIEW: MANAGING ACCIDENT INVESTIGATION FINDINGS</b> Kirsi Pajunen, Chief Adviser to Director General of Rail Transport Sector, Finnish Transport Safety Agency
12:30	<b>QUESTION AND ANSWER SESSION</b>
12:45	<b>NETWORKING LUNCH</b>
13:40	<b>WORKSHOP SESSIONS 1</b> (select one of the following workshops to attend)
	<b>POST-ACCIDENT COMMUNICATIONS WITH MULTIPLE PARTIES</b> Paul Sledzik, Acting Deputy Director, National Transportation Safety Board (NTSB)
	<b>INVESTIGATING FATIGUE</b> Jan Thore Mellem, Human Factors Expert, Railway Department, Accident Investigation Board, Norway (AIBN)
	<b>CAUSAL ANALYSIS AND SYSTEMIC SAFETY - INVESTIGATING THE INTERACTIONS BETWEEN HUMAN, TECHNICAL AND ORGANISATIONAL FACTORS</b> Lena Kecklund, CEO, MTO Safety AB
	<b>DRONES - CHALLENGES OF OWNERSHIP</b> John Rickard, Safety and Airworthiness Head, Defence Equipment and Support, Ministry of Defense
	<b>INVESTIGATING SAFETY MANAGEMENT SYSTEMS</b> Workshop leader to be announced
	<b>DERAILMENT INVESTIGATION</b> Nigel Shaw, Rail Accident Investigation Branch
	<b>HOW ERTMS CAN BE USED IN THE INVESTIGATION OF INCIDENTS/ ACCIDENTS/FAILURES</b> Workshop leader to be announced
14:55	<b>NETWORKING REFRESHMENT BREAK</b>
15:20	<b>WORKSHOP SESSIONS 2</b> (select one of the following workshops to attend)
	<b>POST-ACCIDENT COMMUNICATIONS WITH MULTIPLE PARTIES</b> Paul Sledzik, Acting Deputy Director, National Transportation Safety Board (NTSB)

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

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

# PROGRAMME

	<b>INVESTIGATING FATIGUE</b> Jan Thore Mellem, Human Factors Expert, Railway Department, Accident Investigation Board, Norway (AIBN)
	<b>CAUSAL ANALYSIS AND SYSTEMIC SAFETY – INVESTIGATING THE INTERACTIONS BETWEEN HUMAN, TECHNICAL AND ORGANISATIONAL FACTORS</b> Lena Kecklund, CEO, MTO Safety AB
	<b>INTEGRATING DRONE TECHNOLOGY AND BEYOND</b> Wendy Welsh, Head of Air Operations, Network Rail
	<b>INVESTIGATING SAFETY MANAGEMENT SYSTEMS</b> Workshop leader to be announced
	<b>DERAILMENT INVESTIGATION</b> Nigel Shaw, Rail Accident Investigation Branch
	<b>ERTMS: DESIGNED TO 'AVOID FAILURE'</b> Workshop leader to be announced
<b>16:35</b>	<b>KEYNOTE: SHARING OUR LEARNING – MAKING A DIFFERENCE</b> Simon French, Chief Inspector, Rail Accident Investigation Branch
<b>17:00</b>	<b>CHAIR'S CLOSING REMARKS</b>
	<b>DRINKS RECEPTION IN THE LIBRARY</b>

<b>DAY 2</b>	<b>16 NOVEMBER 2016</b>
<b>08:30</b>	<b>REGISTRATION AND REFRESHMENTS</b>
<b>09:00</b>	<b>CHAIR'S OPENING REMARKS</b>
<b>09:10</b>	<b>KEYNOTE PRESENTATION: EXCELLENCE IN THE APPLICATION OF A SAFETY MANAGEMENT SYSTEM</b> Ian Prosser, Chief Inspector of Railways and Director, Railway Safety, Office of Road and Rail
	<b>TOOLS AND TECHNIQUES</b>
<b>09:35</b>	<b>INVESTIGATING SAFETY MANAGEMENT SYSTEMS</b> Bart Accou, Head of Methods, Infrabel
<b>10:00</b>	<b>CAUSAL ANALYSIS: INVESTIGATION TECHNIQUES AND ANALYSIS PROCESSES</b> Vernon Hoey, Rail Accident Investigator, The Transport Accident Investigation Commission of New Zealand (TAIC)
<b>10:25</b>	<b>INVESTIGATING ORGANISATIONAL AND CULTURAL – COMMON FACTORS IN ACCIDENT CAUSATION</b> Lena Kecklund, CEO, MTO Safety AB
<b>10:50</b>	<b>QUESTION AND ANSWER SESSION</b>
<b>11:00</b>	<b>NETWORKING REFRESHMENT BREAK</b>
	<b>TECHNICAL</b>
<b>11:30</b>	<b>A SERIES OF DERAILMENTS OF FREIGHT TRAINS ON A MAIN LINE AND THESE INVESTIGATIONS</b> Dr Akira Matsumoto, Member of Japan Transport Safety Board
<b>11:55</b>	<b>COMPUTER CONTROLLED SYSTEM</b> Anne Chavez, ATM & Safety Advisor, Avinor
<b>12:20</b>	<b>QUESTION AND ANSWER SESSION</b>
<b>12:30</b>	<b>NETWORKING LUNCH</b>
<b>13:30</b>	<b>INVESTIGATION COMPUTER CONTROLLED SYSTEMS</b> Richard Brown, Inspector of Railway Accidents, Rail
	Accident Investigation Branch
<b>13:55</b>	<b>SOFTWARE ISSUES IN ACCIDENTS AND INCIDENTS</b> Prof John McDermid, High Integrity Systems Engineering Group, University of York

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## PROGRAMME

14:20	<b>PASSENGER SAFETY ON GREAT BRITISH RAILWAYS</b> Michael Woods, Professional Lead - Operations R&D, Rail Safety and Standard Board (RSSB)
14:45	<b>QUESTION AND ANSWER SESSION</b>
15:00	<b>NETWORKING REFRESHMENT BREAK</b>
	<b>WORKSHOP SESSIONS 3</b> (select one of the following workshops to attend)
15:30	<b>POST-ACCIDENT COMMUNICATIONS WITH MULTIPLE PARTIES</b> Paul Sledzik, Deputy Director, National Transportation Safety Board (NTSB)
	<b>INVESTIGATING FATIGUE</b> Mark Young, Inspector of Railway Accidents at RAIB, Department for Transport
	<b>CAUSAL ANALYSIS AND SYSTEMIC SAFETY – INVESTIGATING THE INTERACTIONS BETWEEN HUMAN, TECHNICAL AND ORGANISATIONAL FACTORS</b> Lena Kecklund, CEO, MTO Safety AB
	<b>INTEGRATING DRONE TECHNOLOGY AND BEYOND</b> Wendy Welsh, Air Operations Manager, Network Rail
	<b>INVESTIGATING SAFETY MANAGEMENT SYSTEMS</b> Workshop leader to be announced
	<b>DERAILMENT INVESTIGATION</b> Nigel Shaw, Rail Accident Investigation Branch

## WHO SHOULD ATTEND?

**ATTENDEES WILL LEARN FROM EXPERIENCED INVESTIGATORS AND EXPERTS IN TOPICS THAT ARE KEY TO RAIL ACCIDENT INVESTIGATION ABOUT THE CHALLENGES, STRATEGIES TOOLS AND TECHNIQUES FOR RAILWAY ACCIDENT INVESTIGATION. THEREFORE ANY RAIL PROFESSIONALS INVOLVED IN THE FOLLOWING SHOULD ATTEND THIS EVENT:**

- Government, industry and independent investigators
- Safety Authorities
- Rail safety academics
- Railway industry engineering and operations professionals
- Railway industry standards, safety and process professionals
- Railway asset managers and owners
- Railway equipment designers and suppliers
- Service providers including designers of renewal, refurbishment and maintenance

## SPONSORSHIP OPPORTUNITIES

### CREATE A BESPOKE STRATEGY THAT PLACES YOUR COMPANY IN FRONT OF SENIOR DECISION MAKERS

- Engage face to face with your target market of senior engineers
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#### CONTACT THE SPONSORSHIP TEAM ON:

T: +44 (0)20 7973 1249

E: [sponsorship@imeche.org](mailto:sponsorship@imeche.org)

## HOW TO BOOK YOUR PLACE

### FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Fees and charges	Standard Rate
Member (Ticket includes entry to the evening drinks reception.)	£655 + VAT
Non-member (Ticket includes entry to the evening drinks reception.)	£765 + VAT
Government employee (Ticket includes entry to the evening drinks reception.)	£510 + VAT
Student/Retired (Ticket includes entry to the evening drinks reception.)	£290 + VAT

### THREE WAYS TO BOOK

1 Online:  
[www.imeche.org/railaccident](http://www.imeche.org/railaccident)

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 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. 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

One Birdcage Walk  
London  
SW1H 9JJ

## SPONSORSHIP & EXHIBITION OPPORTUNITIES

### GET INVOLVED

Attending this event as either an exhibitor or sponsor will give you the opportunity to display your solutions, services and products to the right people at the right time.

This is an excellent way to enhance your company profile and communicate effectively to your target audience.

### BENEFITS OF SPONSORING

- **Showcase** new products
- **Raise** awareness of your operation
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- **Influence** other organisations' spending plans

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# FORWARD THINKING

We are the market leader among professional engineering bodies. We've been supporting engineers since 1847 and have 113,000 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



### 3 MARCH 2017, GROSVENOR HOUSE, LONDON

#### Rail Division Annual Luncheon 2017

The IMechE Railway Division Annual Luncheon is the pivotal networking event for the rail industry, attracting over 1,100 professionals for an afternoon of celebration.

[www.imeche.org/railuncheon2017](http://www.imeche.org/railuncheon2017)



### 17 NOVEMBER 2016 THE DORCHESTER, LONDON

#### The Institution of Mechanical Engineers' Annual Dinner

The Institution's Annual Dinner will be returning to London's Dorchester hotel Thursday 17 November 2016, to celebrate the engineering profession with keynote address from The Rt Hon Patrick McLoughlin.

[www.imeche.org/annualdinner2016](http://www.imeche.org/annualdinner2016)

The Institution of Mechanical Engineers organise 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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