

# ASSET MANAGEMENT: RELIABILITY FOR A DIGITAL AGE

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Institution of  
**MECHANICAL  
ENGINEERS**

26 March 2020  
**One Birdcage Walk, London**

Safety and Reliability Group  
**Seminar**

## KEY SPEAKERS INCLUDE:

Rhys Davies, Chair, ISO Committee TC251 Asset Management

**International Organisation for Standardisation**

Tim Flower, Professional Head of Maintenance  
**Network Rail**

Harriet Green, Principal Mechanical Engineer -  
Technical Integrity  
**Equinor**

Leo Pickford, Strategic Capability Executive  
**Rolls-Royce**

Alexandra Knight, Technical Director  
**Amey Strategic Consulting**

Will Leonard, Asset Management Portfolio Manager,  
Energy  
**ABB**



## SUPPORTING ORGANISATIONS:

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Book your place at: [www.imeche.org/assetmanagement](http://www.imeche.org/assetmanagement)

# ASSET MANAGEMENT: RELIABILITY FOR A DIGITAL AGE

26 March 2020, One Birdcage Walk, London

**JOIN THIS SEMINAR TO SUCCESSFULLY INTEGRATE ADVANCED DIGITAL SYSTEMS AND DELIVER REAL VALUE FOR ASSET OWNERS AND OPERATORS. LEVERAGING ASSET HISTORY AND OPERATIONAL DATA CAN INFORM BETTER DECISIONS, ENABLING YOU TO REDUCE DOWNTIME AND EXPENDITURE. HOWEVER, GIVEN THE POTENTIALLY DISRUPTIVE NATURE OF THIS TECHNOLOGY, IT IS IMPERATIVE THAT THESE DIGITAL CAPABILITIES ARE ALIGNED WITH YOUR MECHANICAL ENGINEERING REQUIREMENTS. LEARN FROM LEADERS IN CIVIL AVIATION, RAILWAY INFRASTRUCTURE, RENEWABLE ENERGY, NUCLEAR AND POWER DISTRIBUTION ABOUT HOW DIGITAL TOOLS ARE REVOLUTIONISING THE OPERATION AND PERFORMANCE OF THEIR ASSETS.**

Cutting-edge industry presentations will demonstrate how condition monitoring and data analysis are being used to give insights into present and future performance for assets at different stages of their lifecycle. Return to your organisation with knowledge of what tools and technologies are best suited to support your assets and learn how to incorporate them smoothly into your operational environment.

This event is a must-attend for asset managers at all stages of digital transformation. It is a unique opportunity to share best practice with engineers from across mechanical engineering and forge connections as you take the next step into digital era.

## ORGANISING COMMITTEE:

Safety and Reliability Group  
Institution of Mechanical Engineers

## ATTEND THIS SEMINAR TO:

- Learn about the **application of data analytics** to support design, operation, maintenance and life extension decisions
- Hear more about **developments in digital asset management tools** including digital twins to leverage large volumes of data and upgrade the reliability of your assets
- **Benefit from a wide range of industry case studies** representing civil aviation, power distribution, railway infrastructure, nuclear processing and offshore wind
- Take part in peer-to-peer roundtables to set the tone for discussion and **develop solutions for critical challenges**
- Enjoy networking time throughout the day to **meet new partners and build relationships** which will drive your business forwards

## KEY PROGRAMME HIGHLIGHTS:

- Learn about the development and implementation of **UK Power Networks'** cutting-edge SYNAPS project for AI-driven fault detection
- **Sellafield Ltd** discuss the use of data to improve their understanding of asset performance and underpin life extension
- Deepen your knowledge of Digital Twins, including the National Digital Twin Programme, with the **Centre for Digital Built Britain**
- **Rolls-Royce** present on their Intelligent Engine, integrating global streams of real-time data to optimise operational performance
- Learn about **Network Rail's** Intelligent Infrastructure programme to revolutionise their predictive maintenance capabilities

## MEMBER CREDITS:

Bob Wilson, Chair,  
**Institution of Mechanical Engineers' Safety and Reliability Group, Working Group 1**

Mark Norris, Technical Director - Asset Management,  
Strategic Business Consulting,  
**Black & Veatch**

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# PROGRAMME

<b>THURSDAY, 26 MARCH 2020</b>	
08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b> Alexandra Knight, Technical Director, Amey Strategic Consulting
09:10 <b>KEYNOTE PRESENTATION</b>	<b>DIGITAL ASSET MANAGEMENT – ASKING THE RIGHT QUESTIONS TO GET THE RIGHT ANSWERS</b> Rhys Davies, Chair, ISO Committee TC251 Asset Management, International Organisation for Standardisation
	<b>PUTTING THE ROLE OF THE ENGINEER AT THE HEART OF DIGITAL TRANSFORMATION</b>
09:45	<b>LEADING THE CHARGE AS ARTIFICIAL INTELLIGENCE (AI) TRANSFORMS ASSET MANAGEMENT</b> Alexandra Knight, Technical Director, Amey Strategic Consulting Yuvraj Domun, Data Scientist, Amey Strategic Consulting
10:15	<b>DATA-DRIVEN DESIGN AND OPERATION OF OFFSHORE WIND ASSETS</b> Harriet Green, Principal Mechanical Engineer - Technical Integrity, Equinor Thomas Helfer, Senior Engineer, Digitalisation and Performance Analysis, Equinor
10:45	NETWORKING REFRESHMENT BREAK
	<b>IMPLEMENTING DIGITAL TOOLS FOR DIFFERENT STAGES OF THE ASSET LIFECYCLE</b>
11:15	<b>NETWORK RAIL'S INTELLIGENT INFRASTRUCTURE PROGRAMME: MAXIMISING AVAILABILITY THROUGH TIMELY INTERVENTIONS AND PREDICTIVE MAINTENANCE</b> Tim Flower, Professional Head of Maintenance, Network Rail
11:45	<b>USING DATA TO INFORM DECISION MAKING FOR AGEING ASSETS</b> Chris Pickford, Equipment Reliability Lead, Sellafield Ltd
12:15	<b>EXPLORING THE POTENTIAL OF MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN ASSET MANAGEMENT</b> Rona Mitchell, Innovation Engineer, SYNAPS Project Lead, UK Power Networks
12:45	NETWORKING LUNCH
13:45	<b>ROUNDTABLE DISCUSSIONS</b> Delegates can choose to join one of four roundtable discussions. This will provide you with the chance to share their views and thoughts around the roundtable topic of choice. <ul style="list-style-type: none"><li>Identifying mission critical systems and performance characteristics to deliver value and reduce risk Will Leonard, Digital Portfolio Manager, Asset Performance Management, ABB</li><li>Turning data into insight: Preparing for the advent of AI Annabel West, Head of Engineering Policy, SGN</li><li>How can organisations align internally to ensure the identification and communication of mission critical data? Adam Claxton, Product Performance Manager, TechnipFMC</li><li>What are the requirements for data quality and standardisation and how can engineers ensure these are met? Chris Pickford, Equipment Reliability Lead, Sellafield Ltd</li></ul>
14:45	<b>ROUNDTABLE SUMMARY DISCUSSION</b> Facilitators summarise the outcomes of their roundtable discussion for all the audience. This provides the perfect opportunity to share valuable expertise and insights.
15:05	NETWORKING REFRESHMENT BREAK
	<b>RELIABILITY IMPLEMENTING NEXT-GENERATION DIGITAL TOOLS TO MEET CHANGING ASSET MANAGEMENT REQUIREMENTS</b>
15:35	<b>DRIVING TANGIBLE BENEFITS THROUGH ADOPTING A FULL-LIFE DIGITAL TWIN APPROACH</b> Simon Evans, National Digital Twin Delivery Lead, Centre for Digital Built Britain and Director, Digital Engineering, Atkins
16:05	<b>ROLLS-ROYCE INTELLIGENT ENGINE AND INTELLIGENT SERVICES</b> Leo Pickford, Strategic Capability Executive, Rolls-Royce
16:35	<b>HOW CAN DIGITAL TWINS SUPPORT ASSET MANAGERS IN IMPROVING RELIABILITY AND INCREASING UPTIME?</b> Chris Steele, Head of Data and Analytics, Black & Veatch
17:05	<b>CHAIR'S CLOSING REMARKS</b>
17:15	END OF SEMINAR

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

- 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 31 January 2020	STANDARD RATE
Member, Institution of Mechanical Engineers / Supporting Organisation	£340 + VAT = £408	£375 + VAT = £450
Non-member	£420 + VAT = £504	£470 + VAT = £564
Full-time Student/Retired	£115 + VAT = £138	£130 + VAT = £156

## THREE WAYS TO BOOK

- 1 online:  
[www.imeche.org/assetmanagement](http://www.imeche.org/assetmanagement)
- 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  
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## OTHER EVENTS TO LOOK FOR



### ESSENTIAL MANAGEMENT SKILLS 2020

1-3 April 2020, Coventry

This three-day conference will equip you with the skills required for success within line and project management roles. Attend this event to improve your ability to manage yourself, projects and teams. You can also take the opportunity to gain a Level 3 Award in First Line Management, awarded by the Chartered Management Institute (CMI).

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



### WIND TURBINE USER GROUP 2020

6-7 May 2020, London

This event is part of a popular series of power industry user groups that enable those involved in the management, operation and maintenance of wind turbines to discuss common problems and issues. Join us to exchange ideas, identify potential solutions and learn about new developments at our technical conference offering peer reviewed and high-level content.

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

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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