

# YOUNG ENGINEERS' RAIL SEMINAR 2017: SKILLS AND KNOWLEDGE FOR THE FUTURE OF RAIL ENGINEERING

Institution of  
**MECHANICAL  
ENGINEERS**

Railway Division  
**Seminar**

**19 October 2017**  
One Birdcage Walk, London

## KEY SPEAKERS INCLUDE:

Phil Hinde, Rolling Stock and Depots Manager  
**Crossrail**

Matthew Steele, Commercial and Development Director  
**Network Rail**

Rakesh Gaur, Head of Innovation  
**London Underground**

Carolyn Griffiths, President  
**Institution of Mechanical Engineers**

River Tamoor Baig, Chief Executive and Founder  
**Hack Partners**

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15 SEPTEMBER 2017



## SUPPORTING ORGANISATION:



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# YOUNG ENGINEERS' RAIL SEMINAR 2017: SKILLS AND KNOWLEDGE FOR THE FUTURE OF RAIL ENGINEERING

19 October 2017

One Birdcage Walk, London

**THE YOUNG ENGINEERS' RAILWAY SEMINAR RETURNS IN OCTOBER. THIS ONE-DAY EVENT FOR YOUNG ENGINEERS IN RAIL WILL HELP YOU EXPAND YOUR NETWORK WHILST LEARNING ABOUT MAJOR CHALLENGES.**

This year's seminar will focus on equipping those in their early career stages with the skills and knowledge currently needed for the rail engineering industry. Learn directly from key industry leaders about how they are approaching current technical challenges and planning for the future of rail.

Take an active role in the event through attending our practical workshops, designed and led by experts in their respective fields including timetable production, cyber security and virtual reality. Following the seminar, take the opportunity to get to know your peers better in a more informal setting and test your general knowledge at our pub quiz.

Attending the Young Engineers' Railway Seminar will also provide you with an opportunity to make invaluable contacts across the industry with key players from rail operators, ROSCOs and solution providers.

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## KEY PROGRAMME HIGHLIGHTS:

- **Crossrail** share the purpose and plans for the Crossrail Legacy and Innovation programmes
- Develop an understanding of the systems approach at **London Underground** and how it is the key to their innovation
- Hear about the role of young rail engineers at **Network Rail**
- Gain insights on career progression in the rail industry from the **President of the Institution of Mechanical Engineers**
- **Hack Partners** share insights on how to manage disruptors and engage further with the customer

## ATTEND THIS SEMINAR TO:

- Hear updates on current projects and plans for the future from **Network Rail, Crossrail and London Underground**
- Gain a greater understanding of the broader rail sector and where a career in railway engineering can take you
- Learn about the current and future challenges facing the rail industry and how the experts are handling them
- Tailor the afternoon to your specific needs by choosing one of our three interactive workshops
- Make the most of multiple networking opportunities with those who have scaled the career ladder in the rail industry

## FEEDBACK FROM THE LAST EVENT:

**"The event was engaging and informative, with opportunities to learn from and engage with senior members of the rail industry. It is a great opportunity to meet other young rail professionals and form industry wide connections"**

**Graduate Consultant Engineer,  
Ricardo Rail**

## MEMBER CREDITS:

Aoife Considine, Project Engineer,  
**London Underground**

David Lawes, Rolling Stock Engineer,  
**London Underground**

Timothy Van Ellemeet, Consultant  
**Taylor Airey Limited**

Gary Cooke, Graduate Engineer  
**Eversholt Rail Group**

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TERMS AND  
CONDITIONS APPLY

# PROGRAMME

THURSDAY, 19TH OCTOBER 2017	
08:30	REGISTRATION AND REFRESHMENTS
09:00	<b>CHAIR'S OPENING REMARKS</b> Aoife Considine, Project Engineer, London Underground
09:10 Keynote	<b>RE-FRAMING AND UNLOCKING DIVERSITY IN RAIL</b> Julianna Moats, Principal Engineer, WSP
09:35	<b>THE FUTURE OF ENGINEERING AT TRANSPORT FOR LONDON</b> George Clarke, Director of Engineering, Transport for London
10:00	<b>WHEEL/RAIL ADHESION: NOT JUST LEAVES ON THE LINE</b> Neil Ovenden, Engineering Supply Chain Lead, Rail Delivery Group
10:25	<b>GETTING THE MOST OUT OF INNOVATION WITH A SYSTEMS APPROACH AND AN OPEN MIND</b> Rakesh Gaur, Head of Innovation, London Underground
10:50	NETWORKING REFRESHMENT BREAK
11:20	<b>INNOVATION AT CROSSRAIL: PUSHING THE ENVELOPE</b> Phil Hinde, Rolling Stock and Depots Manager, Crossrail
11:55	<b>ACCESSIBILITY: A SYSTEMATIC APPROACH FOR EQUAL ACCESS TO TRANSPORT</b> Zoe Dobell, Project Engineer, London Underground Alex Bennett, Operational Development Manager, London Underground
12:20	<b>ENGINEERING THE FUTURE OF NETWORK RAIL</b> Matthew Steele, Commercial and Development Director, Network Rail
12:45	<b>MORNING SPEAKERS QUESTION AND ANSWER SESSION</b> An opportunity to ask questions of all of the morning speakers and to participate in the discussion around the morning's topics
13:20	NETWORKING LUNCH
<b>WORKSHOP SESSIONS</b> Attendees will have the opportunity to attend one of the following two workshops:	
14:20	<div> <b>WORKSHOP 1: HOW A £40M TECH STARTUP BECAME THE "UBER OF RAIL TRAVEL"</b>  River Tamoor Baig, Chief Executive &amp; Founder, Hack Partners  Sarah Chok, Head of Marketing, Hack Partners  Hear how the disruptors of today are creating completely new markets by bypassing infrastructure requirements and engaging directly with the customers. In this one hour workshop, we will also be running a mini hackathon to explore solutions of current transport challenges. </div> <div> <b>WORKSHOP 2: VIRTUAL REALITY IN THE RAILWAY</b>  Stephen Collicott, Innovation Consultant, PAULEY  Attend to explore the Digital Journey and what it means. The railway runs on paper not rails, next it will run on 1's and 0's so what is our next power shift?  The most important aspect of the digital revolution is ultimately where you are on the digital journey. We will give a few evolutionary examples of our journey. </div>
15:20	NETWORKING REFRESHMENT BREAK
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15:50	<div> <b>WORKSHOP 1: HOW A £40M TECH STARTUP BECAME THE "UBER OF RAIL TRAVEL"</b>  River Tamoor Baig, Chief Executive and Founder, Hack Partners  Sarah Chok, Head of Marketing, Hack Partners  Hear how the disruptors of today are creating completely new markets by bypassing infrastructure requirements and engaging directly with the customers. In this one hour workshop, we will also be running a mini hackathon to explore solutions of current transport challenges. </div> <div> <b>WORKSHOP 3: WHAT INFLUENCES HOW A TRAIN TIMETABLE IS CONSTRUCTED?</b>  Matt Allen, Head of Capacity Planning Controls, Network Rail  Having an understanding of available timetable capacity and how well a timetable will operate and perform are basic elements of managing a railway. The workshop will touch upon the many aspects of how railway infrastructure, power supply, train control systems and rolling stock can influence and constrain the timetable. </div>
16:50 Keynote	<b>PRESIDENT'S CLOSING SPEECH</b> Carolyn Griffiths, President, Institution of Mechanical Engineers
17:10	<b>CHAIR'S CLOSING REMARKS</b> Aoife Considine, Project Engineer, London Underground
17:15	<b>END OF SEMINAR</b>
17:30	<b>PUB QUIZ</b> Join us for our pub quiz, a chance to test your general knowledge whilst networking with your peers until last orders.

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

- 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	Early Bird Rate Until 15 September 2017	Standard Rate
Member, Institution of Mechanical Engineers / Supporting Organisation	£220 + VAT = £264	£260 + VAT = £312
Non-member	£260 + VAT = £312	£310 + VAT = £372
Student	£100 + VAT = £120	£120 + VAT = £144

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

### THREE WAYS TO BOOK

- 1 Online:  
[www.imeche.org/yers](http://www.imeche.org/yers)
- 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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### 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.

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# FORWARD THINKING

We are the market leader among professional engineering bodies. We've been supporting engineers since 1847 and have 115,000 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



### THE INSTITUTION OF MECHANICAL ENGINEERS' ANNUAL DINNER

**23 November 2017, London**

The Institution of Mechanical Engineers' Annual Dinner is the perfect opportunity for you and your company to help celebrate and show your support for the continued good work being done by the engineering community. Entertain clients, network with colleagues and reward employees in the company of over 300 engineers and industry leaders from around the world.

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



### RAILWAY DIVISION ANNUAL LUNCHEON 2018

**2 March 2018, London**

The Institution of Mechanical Engineers' Railway Division Annual Luncheon is the 'must-attend' event in the railway calendar, attracting over 1,200 people from all sectors of the industry.

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

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](http://www.imeche.org/events) for the complete list of events.

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