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PROGRAMME OF EVENTS 2017/18**



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Front cover image courtesy of Bloodhound Programme Ltd.

BLOODHOUND SSC is a unique, high-technology project to design and build a car that will break the 1,000mph barrier and set a new world land speed record. Designed and constructed in the UK, it will make its first ever public run on 26 October 2017 at Aerohub Enterprise Zone, Cornwall Airport Newquay, as part of a series of key development tests. For further details, visit www.bloodhoundssc.com.

INTRODUCTION

The Yorkshire Region would like to thank all the companies and local universities who offer their support in a multitude of ways, including hosting visits and providing facilities for events and committee meetings.

A very special "*thank you*" goes to AESSEAL, Elevation Recruitment Group, OSL Consulting and Withers & Rogers LLP for their continued support in sponsoring this year's Programme Card.

Please note:

The Programme Card is also available as a digital page-turner and pdf download from:

<http://nearyou.imeche.org/near-you/UK/Yorkshire>

New events are added and event details may change throughout the year. For up-to-date details and to register for events, visit the Near You website

<http://nearyou.imeche.org/near-you/UK/Yorkshire> or contact the Admin Officer. Registration is required for all events in the 2017/18 programme.

To ensure you receive regional event updates as well as details of relevant IMechE events and seminars, keep your contact details and interests up-to-date via the website **www.imeche.org** and log-in top right to "**My account**".

Events are open to members, their guests and visitors. Unless otherwise stated, all events are free to attend.

Some events are restricted on numbers and priority may be given to members. Host companies may require employer information and reserve the right to refuse entry.

If you are attending an event and have special access needs, please advise in advance to ensure correct facilities are available.

Members are welcome to attend their Area or Young Member Panel committee meetings. Please contact the relevant committee Secretary/Chair for details.

Members seeking general advice on membership matters should contact the Business Development Manager, **Denis Healy**, via **d_healy@imeche.org**

Members seeking advice or assistance from the Support Network should visit **<http://www.imeche.org/support-network/>** or email **supportnetwork@imeche.org** or telephone **020 7304 6816**.

REGIONAL CHAIRMAN'S LETTER

Dear Member,

As the new Chairman of the Yorkshire Region, I am very privileged to be introducing our programme of events for 2017/2018. The relatively small number of volunteers who make up our four Area Committees, our Young Members' Panels and our Regional Divisions, have all worked hard to broker and organise this forthcoming season of diverse events, which should be both enlightening and interesting.



Last season's excellent range of events were generally well attended and well received for which we are very grateful, and I urge you to continue to support us by attending these future events if you can. It makes all our efforts worthwhile. I see these events as offering a local window to appreciate a spectrum of engineering, mainly relating to the Yorkshire Region.

I would like to thank my predecessor, Dr Peter Ingham, for the excellent work that he has done on the Regional Committee over the past 2 years. During this time, the committee has continued to increase its STEM outreach to schools and colleges, and its interactions with undergraduates at local universities, in addition to the full programme of events. We have a similar number of school and university events planned for this next season, which reflects a key IMechE objective to help increase the number of students entering engineering careers across the UK, which is clearly now a national imperative. We welcome any engineers who are interested in getting involved in this rewarding voluntary activity.

We are looking forward to welcoming Carolyn Griffiths, the Institution's 132nd President, to the Region next February, when we will show her some selected engineering highlights from the Yorkshire Northern Area. Carolyn has spent her career in railway engineering both in the UK and overseas and has latterly been the Chief Inspector of Rail Accidents for the UK government. Carolyn will also join us at our Annual Dinner next April, which once again will be held at the historic Cutlers' Hall in Sheffield, details of which are in this Programme Card.

Finally, I would like to thank our sponsors - AESSEAL, Elevation Recruitment Group, OSL Consulting and Withers & Rogers LLP. Their help and support enable us to continue to be one of the few IMechE Regions in the UK to produce a Programme Card showing the full range of events in this format, which I believe is still very much appreciated by members.

Yours sincerely,

Alan Brattan CEng FIMechE, Yorkshire Region Chairman

2017/18 EVENT DETAILS

REGION

Mon 11th Sep 2017 - 10.00am

Get Registered in time for Christmas Training Day

Speaker: Denis Healy - Regional Business Development Manager, IMechE

Venue: IMechE Engineering Training Solutions, 4 Europa View, Sheffield Business Park, Sheffield S9 1XH

Do you have an accredited degree for professional registration to CEng or IEng, but just haven't found the time to complete the application form? The Regional Business Development Manager will be running a FREE one day training workshop, along with an IMechE Professional Development Consultant. The aim is for delegates to complete the application form in a single day, so that you can submit your CEng or IEng application immediately. You will then be fast-tracked to an autumn interview and will get your outcome by early December, giving you the opportunity to celebrate your success at Christmas!

Booking is essential as numbers are limited.

For further details and to book your place, visit the Near You website.

WESTERN AREA

Wed 20th Sep 2017 - 10.00am

Get Registered in time for Christmas Training Day

Speaker: Denis Healy - Regional Business Development Manager, IMechE

Venue: Turbocharger Research Institute, University of Huddersfield, Firth Street, Huddersfield HD1 3BD

Do you have an accredited degree for professional registration to CEng or IEng, but just haven't found the time to complete the application form? The Regional Business Development Manager will be running a FREE one day training workshop, along with an IMechE Professional Development Consultant. The aim is for delegates to complete the application form in a single day, so that you can submit your CEng or IEng application immediately. You will then be fast-tracked to an autumn interview and will get your outcome by early December, giving you the opportunity to celebrate your success at Christmas!

Booking is essential as numbers are limited.

For further details and to book your place, visit the Near You website.

WESTERN AREA

Wed 20th Sep 2017 - 6.30pm

Refreshments - 6.00pm

Get Registered

Speaker: Denis Healy - Regional Business Development Manager, IMechE

Venue: Turbocharger Research Institute, University of Huddersfield, Firth Street, Huddersfield HD1 3BD

The Regional Business Development Manager will run a 2 hour workshop on how to become professionally registered and a full Member of IMechE (CEng/IEng/EngTech). This is suitable for Associate members, mid-career engineers and time-served apprentices and technicians. In the weeks following the workshop, you will be able to submit your application as part of a group submission, with interviews being arranged locally.

Pre-registration is required for this event.

EASTERN AREA

Wed 20th Sep 2017 - 7.00pm

Refreshments - 6.30pm

Technical Visit to Siemens turbine blade factory

Speaker: Kevin Wilkinson, Siemens

Venue: Siemens blade factory, Alexandra Dock, Hull HU9 1BP

This visit will consist of a presentation and a tour of the facilities at the brand new Siemens turbine blade factory in Hull.

Booking is essential as numbers are limited.

SOUTH YORKSHIRE AREA

Thu 21st Sep 2017 - 6.30pm

Refreshments - 6.00pm

Tidal lagoons: A scale solution ready to deploy

Speaker: Ton Fijen - Engineering Director, Tidal Lagoon Power

Venue: AMP Technology Centre, Advanced Manufacturing Park, Brunel Way, Rotherham S60 5WG

Tidal lagoons represent a new asset class in hydro energy, offering a new application for proven marine hydro technology and renewable energy at nuclear scale. Tidal Lagoon Power's first project - Tidal Lagoon Swansea Bay which received planning consent in June 2015 - establishes a scalable blueprint for this new industry. The presentation will provide an overview of Tidal Lagoon Power's vision for lagoons in the UK and internationally, before providing an update on Tidal Lagoon Swansea Bay and the company's wider roll out programme.

Please pre-register for this event.

EASTERN AREA YOUNG MEMBERS

Tue 3rd Oct 2017 - 6.30pm

Go Karting Autumn Social

Venue: Hull Raceway Indoor Karting, Sutton Fields Industrial Estate, Stockholm Road, Hull HU7 0XY

This year we return to the racetrack for our Autumn Social event, but who will come out on top as the fastest young engineer?

Booking via the Near You website is required.

NORTHERN AREA YOUNG MEMBERS

Thu 5th Oct 2017

Pub Quiz and STEM registration

Venue: TBC

This is an opportunity to get registered with the STEM network and enjoy a pub quiz.

Further details will be advertised on the Near You website, when available.

WESTERN AREA

Wed 11th Oct 2017 - 6.00pm

Intrapreneurs - surely that's just a spelling mistake?

Speaker: David Broadbent,
Partners in Management Ltd.

Venue: Process Manufacturing Centre, Kirklees College Technology Quarter, Turnbridge Road, Huddersfield HD1 6AG

As a nation, our rate of innovation and productivity relative to our G7 and EU competitors is embarrassingly poor with serious economic consequences. Could the fundamental reason be that our management and leadership skills and development programmes are not what are needed? Perhaps our real 21st Century Leaders are Intrapreneurs? But what is an Intrapreneur, if it's not a spelling mistake, and how do you become one, will be the topic of discussion at this thought-provoking and potentially career enhancing event?

NORTHERN AREA

Thu 12th Oct 2017 - 6.00pm

Technical Visit to Brew York

Venue: Brew York Craft Brewery & Tap Room, Enterprise Complex, Walmgate, York YO1 9TT

Join us for a technical tour of this modern local brewery and the opportunity to meet fellow IMechE members from the local area. Brew York is a new brewery which has seen huge success in its first year. It is conveniently located within the historic city walls of York and is a fusion of American/ English and heritage/contemporary influences. The tour will guide you through the brewing process with the chance to enjoy beer samples along the way. The cost of the event is £10 p.p. and will include a tour of the brewery, four 1/3 pint samples and a buffet.

Booking is essential as numbers are limited. Book early to avoid disappointment.

EASTERN AREA WITH IET AND IChemE

Thu 12th Oct 2017 - 7.00pm

Refreshments - 6.30pm

A beginner's guide to building a power station

Speaker: Richard Burgess MA MEng,
Spencer Group

Venue: Robert Blackburn Building, University of Hull, Cottingham Road Hull HU6 7RX

Energy Works Hull (EWH) is a 25MWe waste to energy power station, presently under construction on Cleveland Street in Hull. The lecture will explore how the technology behind this power station works and detail the challenges that Spencer faced from both engineering and commercial perspectives.

EASTERN AREA YOUNG MEMBERS

Tue 17th Oct 2017 - 6.30pm

Stage fright – presentation skills workshop

Speaker: Dr Martin Haigh
MBE CEng FIMechE, *Latitude7*

Venue: Brynmor Jones Library, University of Hull, Cottingham Road, Hull HU6 7RU

This workshop is designed to help you overcome stage fright and develop the emotional strength and technical skills to enable you to impart appropriate knowledge in a compelling way. The session is highly interactive and you will have lots of opportunity to practise your technique.

Excellent preparation for entry into the Region's Speak Out for Engineering competition!

AUTOMOBILE DIVISION YORKSHIRE CENTRE

Tue 17th Oct 2017 - 7.00pm

Refreshments - 6.30pm

Fuel dilution in automotive engines

Speaker: Quanboa Zhou, *Changan UK R & D Centre*

Venue: The University of Sheffield

Further details will be advertised on the Near You website, when available.

REGION

Wed 18th Oct 2017 - 9.00am

Professional Registration: one-to-one advice surgery

Speaker: Denis Healy, Regional Business Development Manager, *IMechE*

Venue: IMechE Engineering Training Solutions, 4 Europa View, Sheffield Business Park, Sheffield S9 1XH

Do you need some personal advice on becoming professionally registered as CEng, IEng or EngTech? Have you been meaning to get registered for ages, but not quite managed to get round to it?

If so, attending a 30 minute one-to-one session with Denis will get you on the right track and help you to achieve your professional registration goal within a clearly defined timescale.

In the weeks following the session, you will be able to submit your application as part of a group submission, with interviews arranged locally.

Booking is essential as you will be allocated a fixed time slot. Sessions will commence on the hour and half-past from 9am.

For further details and to book your place, visit the Near You website.

WESTERN AREA YOUNG MEMBERS WITH CALDERDALE & KIRKLEES MANUFACTURING ALLIANCE

Wed 18th Oct 2017 - 5.30pm

Technical Visit to Syngenta

Venue: Syngenta Ltd, Leeds Road, Huddersfield HD2 1FG

Established in 1916, the Huddersfield Manufacturing Centre employs over 380 skilled people, dedicated to professional manufacturing of important crop protection products that help growers meet ever increasing demand for food, feed and fuel.

Join us for a behind-the-scenes tour of this modern agrochemicals manufacturing plant.

Booking is essential as numbers are limited.

SOUTH YORKSHIRE AREA WITH IET AND ICE

Thu 26th Oct 2017 - 6.30pm

Refreshments - 6.00pm

Debate: The Northern Powerhouse - rhetoric or reality, and the role for engineering?

Speaker: Panellists from a broad spectrum of political and industrial backgrounds

Venue: Cutlers' Hall, Church Street, Sheffield S1 1HG

This debate aims to explore the implementation of the Northern Powerhouse, first coined by George Osborne as part of the Conservative and Liberal Democrat coalition government, and the role of the engineering profession in turning a concept into reality. A question-time style debate with panellists from a broad spectrum of backgrounds with insight into how the engineering community can capitalise upon the idea of the Northern Powerhouse and what is already being done to drive it forward. Debate panellists will be experts in areas such as politics, industry, commerce and transport. The debate Chair will be posing pre-submitted questions to the panel, as well as taking questions from the audience on the night.

Please pre-register for this event.

EASTERN AREA YOUNG MEMBERS

TBC Nov 2017

Visit to the Advanced Engineering Show

Venue: Halls 2, 3 & 3a, The NEC, Birmingham B40 1NT

Join us for a trip to the NEC in Birmingham to experience the Advanced Engineering Show, featuring the UK's largest annual gathering of advanced engineering professionals. Exhibition areas include Aero, Automotive, Composites, Performance Metals and Connected Manufacturing.

This event is being run in conjunction with the University of Hull. Visit the Near You website for further details and transport arrangements from the Hull area.

AUTOMOBILE DIVISION YORKSHIRE CENTRE

TBC Nov 2017 - 7.00pm

Refreshments - 6.30pm

Tribological failures of turbochargers

Speaker: Prof John Allport
CEng FIMechE, *University of
Huddersfield*

Venue: School of Computing and Engineering, University of Huddersfield, Canalside West, Firth Street, Huddersfield HD1 3BD

This event will be held in November 2017 or in early 2018.

Further details will be advertised on the Near You website, when available.

REGION WITH IET, ICE AND IOM3

Tue 7th Nov 2017 - 9.30am

Engineering Extravaganza - STEM event

Venue: The AMRC Knowledge Transfer Centre (KTC), Advanced Manufacturing Research Centre, Brunel Way, Catcliffe S60 5WG

The Extravaganza is designed to encourage 12 to 14-year-olds to take up a career in engineering. STEM Ambassadors from each professional engineering institution will set hands-on challenges for the youngsters to teach them about the world of materials and engineering. It is set to coincide with Tomorrow's Engineers Week, where events and activities are hosted by companies, educators and professional engineering institutions across the UK.

Contact Ian Crowston via yorkshireeducation@imechenearyou.org if you are interested in getting your local school involved or would like to volunteer your help.

EASTERN AREA WITH IChemE AND IET

Wed 8th Nov 2017 - 7.00pm

Carbon nanomaterials for future applications

Speaker: Dr Dmitriy Kuvshinov, University of Hull

Venue: Wilberforce Building, University of Hull, Hull HU6 7RX

This event has been organised by IChemE, with an invitation to IMechE members and guests to attend.

Further details will be advertised on the Near You website, when available.

SOUTH YORKSHIRE AREA

Thu 9th Nov 2017 - 6.30pm

Refreshments - 6.00pm

The Peter Harrison Lecture - Unlocking the potential of 3D printing/additive manufacturing: The CREATE Education Project

Speaker: Paul Croft - CEO, Ultimaker GB / CREATE Education Project

Venue: UTC Sheffield, 111 Matilda St, Sheffield S1 4QF

Our annual Peter Harrison memorial lecture to coincide with Tomorrow's Engineers Week.

There has been a lot of hype about the revolutionary potential of 3D printing and how it can disrupt many industries. During this session we will look at the impact to date, challenges and opportunities and how we can activate the potential this technology offers. What are the key barriers and how can we overcome them in the future? How can we ensure access for all so that innovation isn't restricted?

Please pre-register for this event.

NORTHERN AREA YOUNG MEMBERS

Sat 11th Nov 2017 - 10.00am

Otley Science Fair

Venue: Otley Courthouse,
Courthouse Street, Leeds LS21 3AN

The IMechE Northern Area Young Members will once again have a stand and exhibits at this family event. Join local groups, regional museums and national organisations showing off the best of hands-on science in Yorkshire.

Bring your children along for a fun-filled day of science!

EASTERN AREA

Tue 14th Nov 2017 - 6.30pm

Refreshments - 6.00pm

Get Registered

Speaker: Denis Healy - Regional Business Development Manager, IMechE

Venue: Brynmor Jones Library,
University of Hull, Cottingham Road,
Hull HU6 7RX

The Regional Business Development Manager will run a 2 hour workshop on how to become professionally registered and a full Member of IMechE (CEng/IEng/EngTech). This is suitable for Associate members, mid-career engineers and time-served apprentices and technicians. In the weeks following the workshop, you will be able to submit your application as part of a group submission, with interviews being arranged locally.

Pre-registration is required for this event.



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WESTERN AREA

Wed 15th Nov 2017 - 6.30pm

Refreshments - 6.00pm

Technical Visit to Princes

Venue: Princes Limited,
Weaverthorpe Road, Bradford
BD4 6SX

Princes is one of the UK's leading food and drink brands, with Bradford being home to its largest UK soft drinks production site. Enjoy a tour of this centre of excellence for fruit squash, manufacturing products for Jucee, Geebee and Wells brands. It also produces a wide range of customer own-brand squash products including cordials, premium high juice and standard squash. It offers co-packing services for selected brand owners and also supplies an extensive range of small bottle juice drinks and sports drink products. In 2014, Bradford saw significant investment with a new on-site warehouse and ingredients processing centre established.

Booking is essential as numbers are limited.

WESTERN AREA YOUNG MEMBERS

Nov/Dec 2017 - TBC

Christmas Social – Pub Quiz

Venue: TBC

Get into the festive spirit with a fun-filled evening shared with local young members.

Further details will be advertised on the Near You website, when available.

EASTERN AREA YOUNG MEMBERS

Fri 1st Dec 2017 - 7.00pm

Atom Brewery tour

Venue: Atom Brewery, Unit 4,
Food & Tech Park, Malmo Road,
Sutton Fields Industrial Estate
(West), Hull HU7 0YF

Experience the science of brewing as we visit Atom Brewery in Hull. See the fermenting process first-hand as we explore the production of the different beers on offer, while possibly trying them too!

Booking via the Near You website is required.

SOUTH YORKSHIRE AREA WITH YOUNG MEMBERS

Tue 5th Dec 2017 - 6.30pm

Refreshments - 6.00pm

Venue: The University of Sheffield,
Room G11, 38 Mappin Street,
Sheffield S1 4DT

Get Registered & find a mentor

Speaker: Denis Healy, Regional
Business Development Manager,
IMechE

The Regional Business Development Manager will run a 2 hour workshop on how to become professionally registered and a full Member of IMechE (CEng/IEng/EngTech). This is suitable for Associate members, mid-career engineers and time-served apprentices and technicians. In the weeks following the workshop, you will be able to submit your application as part of a group submission, with interviews being arranged locally.

Current Members will be on hand to discuss mentoring opportunities.

Pre-registration is required for this event.

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SPEAK OUT FOR ENGINEERING

**Institution of
MECHANICAL
ENGINEERS**

**Lisa Webster -
Winner of the Yorkshire
Region Final 2017;
award presented at the
Yorkshire Regional Dinner
in March 2017 by the 131st
President of the IMechE,
Jon Hilton.**

The Speak Out for Engineering (SOE) competition is organised annually by the Institution of Mechanical Engineers' local volunteer groups. It was originally established in 1964 to challenge young engineers to prove that they could communicate effectively, which is still an important area in developing engineers today.

The competition provides young engineers with an excellent opportunity to demonstrate and develop their verbal and visual presentation skills and competence in public speaking. Competitors must give an oral presentation on a subject relating to mechanical engineering, with 90% of the total marks being awarded for presentation skills and 10% for technical content.

Area heats will be judged by a panel of professionals chosen by the local committee. The winner and runner-up from each heat will be awarded a prize of £300 and £200 respectively, and a place to compete in the Yorkshire Region Final. The winner of the Final will be announced at the Yorkshire Regional Dinner on the 20th April 2018 and will be presented with £500 and The Philip Hilton Trophy (sponsored by Elevation Recruitment Group), with the runner-up receiving a prize of £250.

Yorkshire Region **SOFE** competition 2017/18

NORTHERN / WESTERN AREA HEAT

Date/time: Saturday 4th November 2017 @ 10.00am

Venue: Arup, Admiral House, Rose Wharf,
78 East Street, Leeds LS9 8EE

Contact: **William Holloway** – Secretary,
Northern Area Young Members Panel
nyorksymsec@imechenearyou.org

Contact: **Sarah-Jane Tonks** – Chair,
Western Area Young Members Panel
wyorksymchair@imechenearyou.org

EASTERN AREA HEAT

Date/time: Saturday 11th November 2017 @ 10.00am

Venue: Brynmor Jones Library, University of Hull,
Hull HU6 7RU

Contact: **Adam Stephenson** – Chair,
Eastern Area Young Members Panel
eyorksymchair@imechenearyou.org

SOUTH YORKSHIRE AREA HEAT

Date/time: Saturday 11th November 2017 @ 10.00am

Venue: Work Room 2, The Diamond,
The University of Sheffield,
32 Leavygreave Rd, Sheffield S3 7RD

Contact: **Christobel Gondwe** – Chair,
South Yorkshire Young Members Panel
syorksymchair@imechenearyou.org

Competition entrants must be Affiliate or Associate members of the IMechE, or Members who have been professionally registered for less than 10 years.

HEATS - 1ST PRIZE £300 | 2ND PRIZE £200
FINAL - 1ST PRIZE £500 | 2ND PRIZE £250

To find out more email the contacts provided above or visit:
<http://nearyou.imeche.org/near-you/UK/Yorkshire/SOFE>

SOUTH YORKSHIRE AREA

Thu 7th Dec 2017 - 6.30pm

Refreshments - 6.00pm

Biomechanics of human movement: measuring the possible, modelling the impossible

Speaker: Dr Claudia Mazza,
The University of Sheffield

Venue: Workroom 2, The Diamond,
The University of Sheffield,
32 Leavygreave Rd, Sheffield
S3 7RD

Biomechanics of human movement, through measurement and computational modelling, aims to capture those features, otherwise unperceivable, that characterise the movement of an individual. This allows us to gain information on the specific motor functions and overall motor strategy adopted by a subject to perform a motor task.

This information contributes to the understanding of the key factors that affect internal loading (i.e. muscle and joint forces) and, thus, injury, tissue degeneration or regeneration, as well as motor control and its adaptation, energy consumption and fatigue.

This presentation aims to provide a picture of the state-of-the-art measurement and modelling tools that can be adopted to describe the mechanics of human movement in different contexts, including specialist labs, clinical settings and real life scenarios.

Please pre-register for this event.

WESTERN AREA

Wed 13th Dec 2017 - 6.00pm

Social evening

Venue: TBC

An opportunity to meet the local committee and other members in the Western Area.

Further details will be advertised on the Near You website, when available.

EASTERN AREA WITH RAeS

Wed 13th Dec 2017 - 7.00pm

Refreshments - 6.30pm

Joint lecture with the Royal Aeronautical Society (RAeS)

Speaker: TBC

Venue: Robert Blackburn Building,
University of Hull, Cottingham Road,
Hull HU6 7RX

Further details will be advertised on the Near You website, when available.

EASTERN AREA

Tue 16th Jan 2018 - 7.00pm

Refreshments - 6.30pm

Bearing installation - fit right or fail fast!

Speaker: Ian Pledger, *Schaeffler*

Venue: Robert Blackburn Building,
University of Hull, Cottingham Road,
Hull HU6 7RX

A technical lecture detailing how to correctly install bearings to reduce the rate of failure when brought into service. This will include preparations, general issues (cleanliness, delivery condition & storage), fitting process, shaft and housing fits, tools & devices and fitting methods (different for differing bearing types).

WESTERN AREA

Wed 17th Jan 2018 - 6.30pm

Refreshments - 6.00pm

Managing smoke - the real killer in fires

Speaker: Dr Herodotos Phylaktou,
University of Leeds

Venue: School of Computing and Engineering, University of Huddersfield, Canalside West, Firth Street, Huddersfield HD1 3BD

Dr Phylaktou is an expert on the process and dynamics of combustion and explosions. His talk will illustrate the mechanism of combustion and its effect on smoke toxicity.

SOUTH YORKSHIRE AREA

Thu 18th Jan 2018 - 6.30pm

Refreshments - 6.00pm

Metrology & measuring devices – “How long is a piece of string?”

Speaker: David Vere FGTMA
(Fellow of the Gauge and Tool
Makers Association)

Venue: AMP Technology Centre,
Advanced Manufacturing Park,
Brunel Way, Rotherham S60 5WG

This lecture outlines the history of metrology, which is defined as the scientific study of measurement, from earliest times to the present day and covers the development of measuring instruments, tools and systems in use today. It also leads to the standardisation of the units of measurement which now manifests itself in the production and interchangeability of engineering components on a global scale.

Please pre-register for this event.

NORTHERN AREA WITH YOUNG MEMBERS

Tue 6th Feb 2018 - 6.00pm

Get Registered

Speaker: Denis Healy, Regional
Business Development Manager,
IMechE

Venue: School of Mechanical
Engineering, University of Leeds,
Woodhouse Lane, Leeds LS2 9JT

The Regional Business Development Manager will run a 2 hour workshop on how to become professionally registered and a full Member of IMechE (CEng/IEng/EngTech). This is suitable for Associate members, mid-career engineers and time-served apprentices and technicians. In the weeks following the workshop, you will be able to submit your application as part of a group submission, with interviews being arranged locally.

Pre-registration is required for this event.

WESTERN AREA

Wed 14th Feb 2018 - 6.30pm

Refreshments - 6.00pm

Technical Visit to Nestlé

Venue: Nestlé UK Ltd, Albion Mills,
Halifax HX3 9XT

See how the process is controlled in this world-famous chocolate factory.

Booking is essential as numbers are limited.

SOUTH YORKSHIRE AREA WITH IET

Thu 15th Feb 2018 - 6.30pm

Refreshments - 6.00pm

Visit to Factory 2050

Speaker: Ben Morgan MEng CEng
MIMechE - Head of the Integrated
Manufacturing Group/Factory 2050,
*The University of Sheffield, Factory
2050*

Venue: Factory 2050, Sheffield
Business Park, Europa View,
Sheffield S9 1ZA

An evening tour around Factory 2050 located on The University of Sheffield's Advanced Manufacturing Campus. Factory 2050 was the UK's first fully reconfigurable manufacturing facility that enables a collaborative approach to research between industry and academia. The tour will guide attendees around the building, including offices and factory floor.

Please pre-register for this event.

AESSEAL promoting Engineering in Education



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AESSEAL plc is proud to support the IMechE



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AUTOMOBILE DIVISION YORKSHIRE CENTRE

Tue 20th Feb 2018 - 7.00pm

Refreshments - 6.30pm

Communication in Engineering competition

Venue: Cummins Turbo Technologies,
St Andrews Road, Huddersfield
HD1 6RA

Are you an IMechE Young Member with an automotive-related project or paper that you would like to present? Deliver a 20 minute presentation to local IMechE judges with a short Q & A session to follow.

Further details will be advertised on the Near You website, when available.

SENIOR MEMBERS WITH IET

Wed 21st Feb 2018 - 10.00am

Technical Visit to Veolia

Venue: Veolia Recycling and Energy Recovery Facility, Newmarket Approach, Leeds LS9 0RJ

Join us for a fascinating insight into this state-of-the-art facility in Leeds, which helps increase recycling rates, generates energy (11MW) and also reduces the amount of waste that the city sends to landfill. It takes out plastics, paper/cardboard, ferrous and non-ferrous metals for reprocessing. The RERF operates 24/7 and operates well within the UK and EU standards for emissions to atmosphere. The ash it produces is reused as construction aggregate.

Booking is essential as numbers are limited.

SOUTH YORKSHIRE YOUNG MEMBERS

Thu 22nd Feb 2018 - 6.30pm

Refreshments - 6.00pm

CV writing and interview skills

Speakers: Claire Barham Cert RP - CMI Talent Acquisition Manager, Cummins Turbo Technologies & Cummins Power Generation UK

Bobby Singh – BSA Training

Venue: Lecture Theatre 8, The Diamond, The University of Sheffield, 32 Leavygreave Rd, Sheffield S3 7RD

This seminar covers how to write a successful CV, top tips for interviews, typical questions and how to answer them, what employers are looking for, and a question and answer session.

Individuals can bring their CV with them to the event to be reviewed. *(Note - CVs will be reviewed and feedback emailed after the event.)*

Non-members and members of all levels are welcome to attend. Please pre-register for this event.

EASTERN AREA WITH IET AND IChemE

Thu 22nd Feb 2018 - 7.00pm

Refreshments - 6.30pm

DMAIC (Lean Six Sigma) - reduce waste and improve process efficiency within your organisation

Speaker: Eur Ing Conrad Hoyle CEng MIMechE, *Greencore Grocery*

Venue: Robert Blackburn Building University of Hull, Cottingham Road Hull HU6 7RX

DMAIC (an acronym for Define, Measure, Analyse, Improve and Control) refers to a data-driven improvement cycle used for improving, optimising and stabilising business processes and designs. This technical lecture will give you an insight into how, in a modern healthcare facility, a poor performing process can be improved using statistical methods, Minitab statistical software and good old-fashioned problem-solving techniques.

AUTOMOBILE DIVISION YORKSHIRE CENTRE

Wed 7th Mar 2018 - 7.00pm

Refreshments - 6.30pm

Our Region's Formula Student Teams Showcase – Year 4

Venue: University of Bradford, Bradford BD7 1AZ

Teams of students from our Region's universities work hard to develop single-seat racing cars for this prestigious annual competition. Representatives from each team plan to bring along their car to view and will give a short technical talk about an aspect of its development.

EASTERN AREA WITH YOUNG MEMBERS

Thu 8th Mar 2018 - 7.00pm

Refreshments - 6.30pm

CV writing and interview skills

Speaker: Claire Barham Cert RP – CMI Talent Acquisition Manager, Cummins Turbo Technologies & Cummins Power Generation UK

Venue: Brynmor Jones Library, University of Hull, Cottingham Road, Hull HU6 7RX

This seminar covers how to write a successful CV, top tips for interviews, typical questions and how to answer them, what employers are looking for, and a question and answer session.

Individuals can bring their CV with them to the event to be reviewed. *(Note - CVs will be reviewed and feedback emailed after the event.)*

Non-members and members of all levels are welcome to attend.

Please pre-register for this event.

REGION WITH IET, ICE AND IOM3

Tue 13th Mar 2018 - 9.30am

Engineering Extravaganza - STEM event

Venue: The AMRC Knowledge Transfer Centre (KTC), Advanced Manufacturing Research Centre, Brunel Way, Catcliffe S60 5WG

The Extravaganza is designed to encourage 12 to 14-year-olds to take up a career in engineering. STEM Ambassadors from each professional engineering institution will set hands-on challenges for the youngsters to teach them about the world of materials and engineering. It is set to coincide with Tomorrow's Engineers Week, where events and activities are hosted by companies, educators and professional engineering institutions across the UK.

Contact Ian Crowston via yorkshireeducation@imechenearyou.org if you are interested in getting your local school involved or would like to volunteer your help.

REGION

Tue 13th Mar 2018 - 10.00am

Get Registered Training Day

Speaker: Denis Healy- Regional Business Development Manager, IMechE

Venue: IMechE Engineering Training Solutions, 4 Europa View, Sheffield Business Park, Sheffield S9 1XH

Do you have an accredited degree for professional registration to CEng or IEng, but just haven't found the time to complete the application form? The Regional Business Development Manager will be running a FREE one day training workshop, along with an IMechE Professional Development Consultant. The aim is for delegates to complete the application form in a single day, so that you can submit your CEng or IEng application immediately. You will then be fast-tracked to an early interview and will get your outcome within a few months.

Booking is essential as numbers are limited. For further details and to book your place, visit the Near You website.

WESTERN AREA

Wed 14th Mar 2018 - 6.30pm

Refreshments - 6.00pm

Active charge cooling

Speaker: Prof John Allport CEng FIMechE, *Turbocharger Research Institute, University of Huddersfield*

Venue: School of Computing and Engineering, University of Huddersfield, Canalside West, Firth Street, Huddersfield HD1 3BD

A presentation of the prize-winning paper on active charge cooling to control the inlet temperature to an engine.

SOUTH YORKSHIRE AREA

Thu 22nd Mar 2018 - 6.30pm

Refreshments - 6.00pm

The role of engineers in disaster response

Speaker: Martin McCann - CEO, RedR

Venue: Sheffield Hallam University, City Campus, Howard Street, Sheffield S1 1WB

RedR is an international humanitarian charity which helps to save and rebuild lives by training aid workers in the essential skills they need to prepare for, respond to and recover from natural disasters and conflict. They are a small NGO (non-governmental organisation) that packs a big punch – in 2016 they trained nearly 6,500 aid workers in over 40 countries across the globe in skills ranging from water and sanitation to security management. Many of those they train go on to train thousands more, in what they call the RedR ripple effect. This presentation will provide a greater insight into the organisation and plans for the future.

EASTERN AREA

Tue 10th Apr 2018 - 7.00pm

Refreshments - 6.30pm

Continued Professional Development and mentoring

Speaker: Denis Healy, Regional Business Development Manager, IMechE

Venue: Brynmor Jones Library, University of Hull, Cottingham Road, Hull HU6 7RX

The Regional Business Development Manager will run a workshop on how to maintain Continued Professional Development (CPD) and the benefits it brings to engineers. He will also explore the rewarding opportunities that can be found by taking up a mentoring role with the IMechE. This not only contributes to CPD but mentors gain real personal rewards from guiding developing engineers to become professionally registered and attain full Member status.

SENIOR MEMBERS WITH ICE AND IET

Wed 11th Apr 2018 - 11.00am

Refreshments - 10.30am

Reconstruction of the Tadcaster road bridge

Speaker: David Bowe – Director, Business & Environmental Services, North Yorkshire County Council

Venue: Rogerthorpe Manor Hotel, Thorpe Lane, Badsworth, Pontefract WF9 1AB

Invitation from the ICE Retired Members.

The partial collapse of the listed 18th century bridge over the River Wharfe in Tadcaster became a symbol of the severity of the Christmas floods of 2015. The town was split, so with a 10mile detour for vehicles to cross the Wharfe, the pressure was on to find and deliver a solution as quickly as possible and manage the expectations of local residents and businesses. This talk will cover the technical decisions and problems arising from the initial collapse through to site investigation, design, approvals, procurement and construction, together with the focus on managing public information and expectations, leading to the reopening in February 2017.

Lunch will be available after the lecture - cost £14 p.p. (pre-book only; payable on the day).

Booking is essential for this event.

NORTHERN AREA

Sat 14th Apr 2018 - 2.30pm

Behind the scenes at the National Railway Museum

Venue: National Railway Museum, Leeman Road, York YO26 4XJ

A guided tour of the museum archives, including the collections of paintings, posters, photos, engineering drawings and other historical artefacts. Families are welcome to attend, however, due to the delicate nature of some of the exhibits on show, the event is not suitable for very young children.

Booking is essential as numbers are limited.

REGION

Wed 18th Apr 2018 - 9.30am

Get Up To Speed (GUTS) – STEM Event

Venue: Magna Science Adventure
Centre, Sheffield Road,
Templeborough, Rotherham S60 1DX

*This STEM event is sponsored by the
IMechE.*

This annual event is designed for young people, their families and teachers to see some of the UK's best innovations first hand, hear from and talk to those involved in their success and learn about the future of the sector and its evolution through technology.

Get up to Speed gives businesses the opportunity to showcase their business whilst helping to address the skills gap in engineering, giving something back to the community. Business events throughout the day give the opportunity to network with the sector and promote your company, whilst over 2000 visitors give the opportunity to look for your apprentices and workers of the future.

*For more information about the event
please visit the website*

www.getuptospeed.org.uk

*If you are interested in getting your
business or school involved, please
contact **John Barber** on
07500 331400 or email
admin@getuptospeed.org.uk*

*If you would like to volunteer with the
IMechE stand, please contact **Ian
Crowston** via email*

yorkshireeducation@imechenearyou.org

WESTERN AREA

Wed 18th Apr 2018 - 6.30pm

Refreshments - 6.00pm

CV writing and interview skills

Speaker: Claire Barham Cert RP –
CMI Talent Acquisition Manager,
Cummins Turbo Technologies &
Cummins Power Generation UK

Venue: Process Manufacturing Centre,
Kirklees College Technology Quarter,
Turnbridge Road, Huddersfield
HD1 6AG

This seminar covers how to write a successful CV, top tips for interviews, typical questions and how to answer them, what employers are looking for, and a question and answer session.

*Individuals can bring their CV with
them to the event to be reviewed.
(Note - CVs will be reviewed and
feedback emailed after the event.)*

*Non-members and members of all
levels are welcome to attend.*

Please pre-register for this event.

REGION

Fri 20th Apr 2018 - 7.00pm

Yorkshire Regional Dinner

Speaker: Carolyn Griffiths FEng
CEng FIMechE – IMechE President

Venue: Cutlers' Hall, Church Street,
Sheffield S1 1HG

Engineering achievements from across the Region will be celebrated in the company of past and present IMechE presidents, local dignitaries, businesses, fellow members and guests, amidst the prestigious surroundings of Sheffield's Cutlers' Hall. The evening will combine networking opportunities with a number of presentation ceremonies, including the announcement of the winner of the Region's "Speak Out for Engineering" competition. Commemorative certificates will also be presented to members who have become a Fellow of the Institution or who have achieved Corporate Membership within the past year. An optional tour of Cutler's Hall will also be offered prior to the reception.

Further details, including ticket prices, will be advertised in Autumn 2017.

Please register with the Admin Officer to confirm interest in purchasing tickets or reserving a table.

SOUTH YORKSHIRE AREA

Thu 26th Apr 2018 - 6.30pm

Refreshments - 6.00pm

Hang gliding: the fun of flying

Speaker: Dr Tim Swait CEng MRAeS -
Director, *Avian*

Venue: AMP Technology Centre,
Advanced Manufacturing Park,
Brunel Way, Rotherham S60 5WG

In 1891 a Prussian inventor named Otto Lilienthal picked up his self-built glider, rested it on his shoulders and then took a few steps down a hill and into the air. Over this and his next 2000 flights, he not only laid much of the ground work for the science of aviation but became the first person in the world to experience the thrill of hang gliding!

During the early 20th century, mankind became distracted by the development of powered flight, however in the 1960s a group of enthusiasts, often using self-built wings made of bamboo and plastic sheet, invented the sport of hang gliding and re-discovered the freest form of flight.

Advances in aerodynamics and materials mean that a modern hang glider can now be a sleek racing machine capable of speeds over 100km/hr and able to cover 100's of kilometres cross country before returning its pilot safely to earth. Dr Tim Swait is the owner and Director of *Avian*, the UK's only manufacturer of hang gliders. In this lecture he will discuss how the basic engineering challenges of stability, control, performance and structure are the same as those that Lilienthal or the 1960s pioneers of the sport had to overcome, even if the modern solutions are very different.

Please pre-register for this event.

EASTERN AREA

TBC May 2018 - 7.00pm

Refreshments - 6.30pm

Technical Visit to Howdens Joinery Co.

Speaker: Phil Wedgner CBE CEng MIMechE – Maintenance Manager, Howdens Joinery Co.

Venue: Howdens Joinery Co., Thorpe Road, Howden DN14 7PA

Howdens Joinery is the UK's largest manufacturer and supplier of fitted kitchens, appliances and joinery products from local stock, through its 640+ trade depots. This technical lecture is an opportunity to see how the manufacturing and engineering function delivers, maintains and continually increases manufacturing capability within an in stock and ever expanding business.

Booking is essential as numbers are limited.

SENIOR MEMBERS WITH IET

Wed 9th May 2018 - 4.30pm

Annual York Event Part One – High Tea

Venue: Roger Kirk Centre, University of York, Heslington, York YO10 5DD

Booking is essential as numbers are limited.

SENIOR MEMBERS WITH NORTHERN AREA, IET AND ICE

Wed 9th May 2018 - 6.00pm

Annual York Event Part Two – Innovation in the leisure vehicle industry: past, present and future

Speaker: Paul Cunningham BEng MSc CEng MIMechE – Programme Manager (Motorhome Products), *Swift Group Ltd*

Venue: Room PL002, Department of Electronics & Physics, University of York, Heslington, York YO10 5DD

The Swift Group has grown from simple foundations back in 1964, when Ken Smith built his first touring caravan, to become the largest manufacturer of touring caravans, motorhomes and holiday homes in the UK, as well as competing on a global scale.

The company was founded on the simple principle of making products that innovate in the key areas of design, quality and value for money.

This lecture will provide an account of the innovations that the company have brought to the industry over the past 50 years and discuss the technical and commercial challenges that they have had to overcome to maintain their position as the market-leader within the UK and overseas.



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SOUTH YORKSHIRE AREA

Thu 17th May 2018 - 6.30pm

Refreshments - 6.00pm

Deus Ex Machina: The rise of robotics in healthcare

Speaker: Dr Helen Meese CEng
MIMechE – Head of Healthcare,
IMechE

Venue: AMP Technology Centre,
Advanced Manufacturing Park,
Brunel Way, Rotherham S60 5WG

Both robots and robotics are changing the face of world healthcare. From the automated units delivering patient records and supplies, to devices for radiation treatment and rehabilitation and the complex surgery assistants allowing doctors to conduct operations through tiny incisions. Robotics has the potential to relieve medical personnel of routine tasks and make medical procedures safer and less costly for both the patient and the healthcare providers.

But how will the rise of the machine affect our health service? And what impact will it have on patient care in the future? What happens if, and when, it goes wrong?

This lecture will outline the growth of robotics in healthcare over the last 20 years and highlight some of the transformative technology being developed today. It will look at how engineers are mitigating the risk to life, in the drive to cope with an ageing and growing population and discuss the advantages and benefits these machines bring, as well as the societal concerns about handing over control of our very lives to machines.

Please pre-register for this event.

AUTOMOBILE DIVISION YORKSHIRE CENTRE

Tue 22nd May 2018 - 7.00pm

Refreshments - 6.30pm

Restoration of the 1927 Grand Prix 8-cylinder FWD Alvis

Speaker: Dr Tony Cox MBE FIMechE

Venue: University of Bradford,
Bradford BD7 1AZ

This talk will trace the engineering story behind the 8-cylinder Alvis FWD racing cars of 1926-1930, which featured: supercharging, integral (monoblock) iron cylinder block and head, hemispherical combustion chamber with inclined valves & DOHC, roller bearing main bearings and big ends, and the FWD transmission unit overslung in front of the front axle. It will also describe the ongoing restoration of the surviving parts of the 1927 single seater Grand Prix car and the 1929 road/racing 8-cyl FWD Ulster TT car. This involves reverse engineering and manufacture of missing items such as: cylinder blocks, chassis frame, gearbox and credits the UK supplier chain which still maintains the needed skills today.

An Alvis FWD rolling chassis will be on display.

EASTERN AREA WITH AUTOMOBILE DIVISION YORKSHIRE CENTRE

Thu 21st Jun 2018 - 7.00pm

Refreshments - 6.30pm

Technical Visit to Swift Group

Speaker: Paul Cunningham BEng
MSc CEng MIMechE - Programme
Manager (Motorhome Products),
Swift Group Ltd

Venue: Swift Group Ltd, Gate 2
Dunswell Road, Cottingham HU16 4JX

The Swift Group are the UK's leading manufacturer of caravan tourers, motorhomes and holiday homes. This event will provide an overview of their latest products and design processes, alongside a full factory tour of the company's main manufacturing site and headquarters.

Booking is essential as numbers are limited.

SOUTH YORKSHIRE AREA

Thu 28th Jun 2018 - 6.30pm

Technical Visit to Hope Cement

Speaker: Jonathan Fewings,
Hope Construction Materials Ltd

Venue: Hope Cement Ltd, Hope
Valley, Derbyshire S33 6RP

A unique opportunity for a behind-the-scenes tour of the largest independent cement works in the UK, operating in the heart of the Peak District National Park. The diverse process conditions, high temperatures and immense forces involved in this harsh manufacturing environment makes heavy engineering a continuous challenge. Starting with a brief welcome introduction to the works, you will be taken on a site tour returning for refreshments (approximately 2 1/2 hrs).

Booking is essential as numbers are limited.

RAILWAY DIVISION NORTH EASTERN CENTRE

A varied programme of events will be organised by the Railway Division North Eastern Centre throughout the year, including presentations, papers, lectures and discussion forums, aiming to keep members abreast of the latest developments within the rail industry.

For event details, visit the Near You website:

<http://nearyou.imeche.org/near-you/UK/North-Eastern/NE-RD-Centre>

YOUNG MEMBERS' EVENTS

As the Region's Young Members tend to be more fluid with their events, reacting to topical issues and external factors, most of their events are not included in this event listing.

To find out more about their events, visit the Near You website or follow them on Facebook, LinkedIn and Twitter.

**Institution of
MECHANICAL
ENGINEERS**

Near You - Yorkshire Region

<http://nearyou.imeche.org/near-you/UK/Yorkshire>

SOCIAL MEDIA



Facebook

Western Area:

IMechE-Western-Yorkshire-Area-Members

Eastern Area:

IMechE.EY

South Yorkshire Young Members:

IMechESYYM

East Yorkshire Young Members:

IMechE.EYYM

North Yorkshire Young Members:

IMechENYYM

West Yorkshire Young Members:

IMechEWYYM

Yorkshire Young Members:

IMechEYorksYM

Automobile Division Yorkshire Centre:

IMechE.Yorkshire.Automobile.Division.Centre



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IMechE - South Yorkshire Area

IMechE Western Yorkshire Region

IMechE North Yorkshire Young Members



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Yorkshire Region:

@IMechE_Yorks

South Yorkshire Area:

@IMechE_SYA

South Yorkshire Young Members:

@IMechE_SYYM

North Yorkshire Young Members:

@NY_YM_IMechE

CONTACTS

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Business Development Manager	Denis Healy	07887 931691 d_healy@imeche.org

EASTERN AREA

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Secretary	Simon Thompson	eyorkssec@imechenearyou.org

NORTHERN AREA

Chair	Chris Hewson	nyorkschair@imechenearyou.org
Secretary	Vacant	nyorkssec@imechenearyou.org

SOUTH YORKSHIRE AREA

Chair	Luke Farmer	syorkschair@imechenearyou.org
Secretary	Tom Garwood	syorkssec@imechenearyou.org

WESTERN AREA

Chair	Ken Ball	wyorkschair@imechenearyou.org
Secretary	Mike Dolton	wyorkssec@imechenearyou.org

SENIOR MEMBERS

Chair	Brian Firth	0113 275 7351
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EASTERN AREA YOUNG MEMBERS

Chair	Adam Stephenson	eyorksymchair@imechenearyou.org
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NORTHERN AREA YOUNG MEMBERS

Chair	Dinalie Karunaratne	nyorksymchair@imechenearyou.org
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SOUTH YORKSHIRE AREA YOUNG MEMBERS

Chair	Christobel Gondwe	syorksymchair@imechenearyou.org
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WESTERN AREA YOUNG MEMBERS

Chair	Sarah-Jane Tonks	wyorksymchair@imechenearyou.org
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AUTOMOBILE DIVISION YORKSHIRE CENTRE

Chair	Martin Priest	yorksad@imechenearyou.org
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Institution of Mechanical Engineers

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