Thank you to our sponsors for their assistance with producing this programme card.
‘Aside from the undoubted quality of its products, AESSEAL has a particularly strong commitment to the customer – an approach that also won it the IMechE Customer Focus award. The company’s ability to deliver much of its wide and varied product range with a lead time of just two days shows supreme confidence in its logistical and operational efficiency.’ - IMechE Nov 2011

AESSEAL plc is proud to support the IMechE
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 special thank you also goes to Cummins Turbo Technologies Ltd, AESSEAL plc, ANSYS UK Ltd, Elevation Recruitment, David Brown, Withers & Rogers and Atkins for sponsoring this year’s programme card, enabling all Yorkshire Region members to receive a printed copy in addition to the electronic versions.

Please note:

- The programme 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 recommended for all events in the 2012/13 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: go to www.imeche.org and log-in top right.
- All 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 anyone attending an event has 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 committee Secretary/Chair for details.
- Members seeking general advice on membership matters should contact the Business Development Manager, Denis Healy.
- Members seeking advice or assistance from the Support Network should visit www.bfime.org.uk or contact info@supportnetwork.org.uk or Maureen Hayes on 020 7304 6816.
Dear Member

As the Chairman of the Yorkshire Region in my final year of office, it is my pleasure to once again introduce the programme of events for the 2012-2013 year. The Area committees continue to work tirelessly at putting on an exciting and varied programme of events for you, the membership, so we really look forward to seeing you again this year at some of the events.

On the 12th March 2013, we will welcome Professor Isobel Pollock, the 127th President of the Institution, to the Western Area of Yorkshire. We are delighted to be hosting Isobel, not only in her home county, but in her home town of Huddersfield. Isobel was formerly Chair of the Yorkshire Region and has held increasingly more senior positions at the Institution, culminating in her being elected the second female president in the Institution’s 165 year history.

After 2012’s extremely successful Regional Dinner at the magnificent Cutlers’ Hall in Sheffield with nearly 200 guests, the Regional Committee has decided to attempt to make this a tradition. So once again, the Regional Dinner will be held at the Cutlers’ Hall in Sheffield on the 15th March 2013. Although the date remains as 2012, we hope the change to a Friday is welcomed by our members.

In this programme card, you will find many events that will cater for your interest in Mechanical Engineering. Now is a great time to browse through the events and make a note in your calendar or diary of those that spark your interest throughout the coming year.

To keep up-to-date with the very latest news on events including announcements, a list of the Region’s online presence through Facebook, Twitter, and of course ‘Near You’, is available within the programme card.

If you would like to get a little more involved, maybe you know someone who could give an excellent lecture, maybe you would like to network some more, or would like to engage the next generation of potential engineers, then why don’t you get in touch with one of the committees to offer your assistance. They will be very grateful for your support.

Finally, a big ‘Thank You’ to our sponsors for this year’s programme card - Cummins Turbo Technologies, AESSEAL, ANSYS, David Brown, Withers & Rogers, Atkins and Elevation Recruitment. We are proud to have them as partners for the forthcoming year.

Yours faithfully

Andy Hamilton CEng FIMechE, Yorkshire Region Chairman
Young Members’ Events

As the Region’s Young Members tend to be more fluid with their events, reacting to topical issues and external factors, their events are not included in the event listing. To find out more about their events, visit the Near You website or follow them on Facebook and Twitter.

Media Sites and Addresses

Near You – Yorkshire Region
http://nearyou.imeche.org/near-you/UK/Yorkshire

Facebook – West Yorkshire Members
www.facebook.com/pages/IMechE-Western-Yorkshire-Area-Members/104592532912209

Facebook – East Yorkshire Young Members
www.facebook.com/IMechE.EYYM

Facebook – South Yorkshire Young Members
www.facebook.com/IMechESYYM

LinkedIn – Yorkshire Region Group
www.linkedin.com/groups/IMechE-Yorkshire-Region-4426900?gid=4426900&trk=hb_side_g

LinkedIn – South Yorkshire Region Group
www.linkedin.com/groups?home=&gid=3525331&trk=anet_ug_hm

Twitter – Yorkshire Region
@IMechE_Yorks (http://twitter.com/#!/IMechE_Yorks)

Twitter – South Yorkshire Young Members
@IMechE_SYYM (https://twitter.com/#!/IMechE_SYYM)
2012/2013 PROGRAMME
– EVENT DETAILS

RAILWAY DIVISION NORTH EASTERN CENTRE
Tue 11 Sep 2012 – 6.30pm
Refreshments: 6.00pm
No. 10000 Locomotive – The Story of “Hush Hush”
Speaker: TBC
Venue: National Railway Museum, Leeman Road, York YO26 4XJ
Please register with the Admin Officer to receive further details about this talk when available.

EASTERN AREA
Wed 19 Sep 2012 – 6:30pm
Technical Visit - Smith and Nephew
Speaker: Conrad Hoyle CEng MIMechE – Smith & Nephew
Venue: Gateway Business Park, Broad Lane, Gilberdyke HU15 2TD
5S and Visual Management form the very foundations of Lean transformations, yet so many companies struggle to sustain. Come and see how Smith & Nephew have achieved real sustainability using these basic tools to engage their team and move on to more advanced techniques. Join us to see how 5S and Visual Management can be used to benefit your business. Find out how you can combine the two techniques in a structured approach to unlock your potential and drive your improvement activity to a higher level throughout your organisation. Pre-registration is essential, so book early to avoid disappointment. Places are limited and will be allocated on a first come first served basis.

WESTERN AREA
Wed 19 Sep 2012 – 6.30pm
Refreshments: 6.00pm
Get Registered
Speaker: Denis Healy – Institution of Mechanical Engineers
Venue: Cummins Turbo Technologies Ltd, St Andrews Road, Huddersfield HD1 6RA
The Regional Business Development Manager will be running a 2 hour workshop on how to become professionally registered and a full member of IMechE. This is ideal for anyone including 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.

RAILWAY DIVISION NORTH EASTERN CENTRE
Tue 25 Sep 2012 – time TBC
NEREF – High Speed to the North
Speaker: TBC
Venue: National Railway Museum, Leeman Road, York YO26 4XJ
Please register with the Admin Officer to receive further details about this talk when available.

SOUTH YORKSHIRE AREA
Thu 27 Sep 2012 – 6.30pm
Refreshments: 6.00pm
Human Joint Disease - Replace or Regrow?
Speaker: Dr Edward Draper CEng FIMechE – JRI Orthopaedics
Venue: JRI Orthopaedics, 18 Churchill Way, J35A Business Park, Chapeltown, Sheffield S35 2PY
Have you ever wondered why joint replacements don’t last forever? This talk will explore the limitations of the current replacement designs and explain how close we are to re-growing a joint surface after it has been damaged, while outlining the technical demands these new technologies bring. No biological knowledge required. Optional factory tour beforehand from 4.00pm. Pre-registration is required for this event (please indicate if you would like to join the tour).

RAILWAY DIVISION NORTH EASTERN CENTRE
Thu 4 Oct 2012 – 6.30pm
Refreshments: 6.00pm
Railway Division Chair’s Address
Speaker: Bridget Eickhoff – Principal Infrastructure Engineer at RSSB
Venue: Leeds Art Gallery, The Headrow, Leeds LS1 3AA
Five minutes’ walk from Leeds railway station.

SENIOR MEMBERS WITH IET
Tue 9 Oct 2012 – 10.30am
Refreshments: 10.00am
Transforming by Design
Speaker: Robert J Bennett CEng FIET – Consultant to Wilson Power Transformers
Venue: Leeds Seventeen Hotel, Nursery Lane, Alwoodley, Leeds LS17 7HW
The speaker has been professionally involved with transformer design for most of his working life. He will highlight details of transformer design and manufacture to meet the present requirements for reduced carbon and optimised voltage in the Asian and other markets.
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NORTHERN AREA
Wed 10 October 2012 – 6.30pm
Refreshments: 6.00pm
Get Registered
Speaker: Denis Healy – Institution of Mechanical Engineers
Venue: Atkins Generation, 3100 Century Way, Thorpe Park, Leeds LS15 8ZB
The Regional Business Development Manager will be running a 2 hour workshop on how to become professionally registered and a full member of IMechE. This is ideal for anyone including 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
Thu 11 Oct 2012 – 3.00pm
Britvic Site Visit
Venue: Britvic Soft Drinks, Willow Lane, Huddersfield HD1 5EB
Britvic plc is one of Europe’s leading soft drinks companies, with an enviable portfolio of market leading brands, such as Robinsons, J2O, Fruit Shoot, Tango and drench in GB, MiWadi, Club and Ballygowan in Ireland, and Teisseire, Fruite and Pressade in France. This visit will be a site tour of the production facilities at their Huddersfield operations and a look into their highly automated production lines. This visit is pre-registration only; book early to avoid disappointment.

EASTERN AREA
Wed 17 Oct 2012 – 7.00pm
Refreshments: 6.30pm
Siemens Power Gas Turbines
Speaker: TBC – Siemens Power
Venue: Robert Blackburn Building, University of Hull, Hull HU6 7RX
Please register with the Admin Officer to receive further details when available.

NORTHERN AREA WITH WESTERN AREA
Thu 18 Oct 2012 – 6.30pm
Technical & Social Visit to Saltaire Brewery
Venue: Saltaire Brewery, Unit 6, County Workshops, Dockfield Road, Shipley BD17 7AR
A chance to combine a technical tour of the Saltaire Brewery with an opportunity to get to know fellow members of the IMechE from the Yorkshire Area.
Situated in Shipley, West Yorkshire, brewing hand crafted ales since 2005, with over 50 trade awards, including two national championship brews and two international gold medals! Brewing 400 casks a week, most of which is sold within the county and supplying a range of bottles to most of the Yorkshire supermarkets. Included is a tour of the brewery, a pint of Saltaire’s finest real ale and a curry buffet. There will be plenty of time for the purchase of additional drinks and souvenirs, questions and getting to know other members.
The brewery is conveniently located 5 mins from Shipley rail station. Cost of the event is £5 (payable in advance). Register early with the Admin Officer to avoid disappointment.

WESTERN AREA
Tue 23 Oct 2012 – 6.30pm
Refreshments: 6.00pm
Advances in Turbotechnologies
Venue: School of Mechanical Engineering, University of Huddersfield, Queensgate, Huddersfield HD1 3DH
An evening presenting three technical papers from the 10th International Conference on Turbochargers and Turbocharging (15th -16th May 2012). Topics presented are: Turbocharge Blade Vibration; Testing Turbo Expanders; Experimental & Numerical Analysis of Air Flow in Bleed Slots.

SOUTH YORKSHIRE AREA
Thu 25 Oct 2012 – 6.30pm
Refreshments: 6.00pm
The Offshore Wind Debate - What do you think?
Chair: Mark O’Reilly MIoD – Team Humber Marine Alliance
Venue: The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA
There has been much debate about Offshore Wind and its role in helping fulfil our future energy needs, but what do you think? Will it be the answer? Will it help us meet our renewable energy targets? Will it present the volume of business opportunities for UK companies that some industry experts predict? What are the technical challenges ahead for the industry? Here is a chance for you to put your questions to a panel of industry experts, representing a range of views on the sector. Come along and join in with what should be a stimulating debate.
Pre-registration is required for this event, and you are also invited to submit your question in advance.
AUTOMOBILE DIVISION YORKSHIRE CENTRE
Tue 6 Nov 2012 – 6.30pm
Refreshments: 6.00pm
**History of Bugatti Cars**
Speaker: Richard Day – Chairman of Bugatti Trust
Venue: Lecture Theatre A, School of Mechanical Engineering, University of Leeds, Woodhouse Lane, Leeds LS2 9JT
This talk will look at the development of Ettore Bugatti’s cars, and also his aero engines, boats and railcars over the period 1897 to his death in 1947.

EASTERN AREA
Wed 7 Nov 2012 – 6.30pm
**Get Registered**
Speaker: Denis Healy – Institution of Mechanical Engineers
Venue: Engineering Innovation Building, University of Hull, Hull HU6 7RX
The Regional Business Development Manager will be running a 2 hour workshop on how to become professionally registered and a full member of IMechE. This is ideal for anyone including 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.

RAILWAY DIVISION NORTH EASTERN CENTRE
Wed 7 Nov 2012 – 6.30pm
Refreshments: 6.00pm
**How do you make Main Brake Distributors actually work?**
Speaker: TBC
Venue: Wabtec Rail Ltd, Doncaster Works, Hexthorpe Road, Doncaster DN1 1QY
Five minutes’ walk from Doncaster railway station via footbridge. Free car parking via Hexthorpe Road entrance. Please register with the Admin Officer to receive further details about this talk when available.

WESTERN AREA
Tue 13 Nov 2012 – 6.30pm
**A Ten-fold Improvement in Machine Tool Accuracy**
Speaker: Prof Alan Myers – University of Huddersfield
Venue: EPSRC Centre for Innovative Manufacturing in Advance Metrology, University of Huddersfield, Queensgate, Huddersfield HD1 3DH
A technical lecture with a tour of the research facilities within the department. Pre-registration is required for this event.

SENIOR MEMBERS WITH IET
Tue 13 Nov 2012 – 10.30am
Refreshments: 10.00am
**Technical Visit to Eggborough Power Station**
Venue: Eggborough Power Station, Goole DN14 0BS
This 2,000 mw source has consistently supplied electricity to over 2,000,000 UK homes since 1961. A flue gas desulphurisation system has subsequently been installed, improving environmental control of emissions. Numbers are restricted so book early with the Admin Officer to avoid disappointment.

NORTHERN AREA WITH IET
Tue 20 Nov 2012 – 6.30pm
Refreshments: 6.00pm
**Technical Visit to Boxford Ltd**
Venue: Boxford Ltd, Dewsbury Road, Elland HX5 9BG
The company manufactures CAD/CAM machinery for educational use and exports 40% of this with associated software. They have recently been awarded the Queen’s Award for Enterprise. Registration with the Admin Officer is essential as places are limited.

SOUTH YORKSHIRE AREA
Thu 22 Nov 2012 – 6.30pm
Refreshments: 6.00pm
**Challenging the Supply Chain**
Speaker: Gordon McCrae – Gripple
Venue: Gripple Ltd, The Old Gun Works, Saville Street East, Sheffield S4 7UQ
Traditional wisdom has it that you should concentrate on your strengths and focus on the manufacture of core components. MX Award Winners Gripple do it differently. They make the vast majority of their components themselves. They are bringing the manufacture of wire rope back from China. They sole source and work in partnership with people who supply them. They also have an employee ownership scheme. They want the vast majority of their components manufactured in South Yorkshire. Come along and find out how they do it.
Optional factory tour afterwards at 8.00pm. Pre-registration is required for this event (please indicate if you would like to join the tour).
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"I was able to progress from graduate to Principal Engineer in six years"
Cummins Turbo Technologies is a market-leading designer and manufacturer of Holset turbochargers for commercial diesel engines. With four Technical Centres globally, we now employ around 700 of the world’s best Engineers.

Be part of our success story...
WESTERN AREA
Thu 22 Nov 2012 – 6.30pm
Social Evening / Mentor Evening
Venue: Head of Steam, St. George’s Square, Huddersfield HD1 1JB
This is one of our regular social evenings for members to meet and greet other engineers in the local area. We are always looking out for new members and mentors and for event ideas, so please drop in if you can offer your support or you just want to network in a relaxed environment. This would be a great opportunity for people who attended the Get Registered event to find a sponsor!

SOUTH YORKSHIRE AREA
Thu 6 Dec 2012 – 6.30pm
Get Registered
Speaker: Denis Healy – Institution of Mechanical Engineers
Venue: Sir Frederick Mappin Building, University of Sheffield, S1 3JD
The Regional Business Development Manager will be running a 2 hour workshop on how to become professionally registered and a full member of IMechE. This is ideal for anyone including 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
Tue 27 Nov 2012 – 6:30pm
Technical Visit - Beverley Treasure House
Speaker: Martin Neylon CEng MIMechE MIET – East Riding of Yorkshire Council
Venue: Treasure House, Champney Road, Beverley HU17 8HE
State-of-the-art environmentally controlled stores hold the collections of the East Riding Archives, Local Studies, Beverley Art Gallery, Beverley Guildhall and the archaeology of the Museums Service. The tour will explain the rationale behind the building design and Building Services required, in order to achieve National Archives Approved Repository status and how these are continually monitored and maintained. It will include a visit to the repositories and plant rooms to illustrate the plant required to achieve the desired results, and to the conservation workshop to illustrate the work of the document Conservator who protects documents from further deterioration. Pre-registration is required for this event.

RAILWAY DIVISION NORTH EASTERN CENTRE
TBC Dec 2012 – 6.30pm
Annual Film Evening
Venue: National Railway Museum, Leeman Road, York YO26 4XJ
As in previous years, a collection of fantastic archive railway footage and hopefully a touch of modern engineering too.

SENIOR MEMBERS WITH IET
Wed 5 Dec 2012 – 10.30am
Auto Electronics – The Increasing Complexity of Body Electronics & Sensors
Speaker: Assed Mir MIET – Engineering Manager (Sensors) Methode Electronics UK Ltd
Venue: Leeds Seventeen Hotel, Nursery Lane, Alwoodley, Leeds LS17 7HW
The motor vehicle has undergone dramatic changes in recent years, most notably the increasing use of onboard computers. The speaker will review these developments and show how microcomputers are changing in-car media systems.
RAILWAY DIVISION NORTH EASTERN CENTRE

TBC Jan 2013 – 6.30pm
Refreshments: 6.00pm
Papers by Young Members
Venue: Leeds Art Gallery, The Headrow, Leeds LS1 3AA
Five minutes’ walk from Leeds railway station.

SENIOR MEMBERS WITH IET

Tue 8 Jan 2013 – 10.30am
Refreshments: 10.00am
LED Lighting
Speaker: Gordon Routledge CEng MIET
MIOD – Publisher of Lux Magazine & Senior Partner in Ideas With Energy Ltd
Venue: Leeds Seventeen Hotel, Nursery Lane, Alwoodley, Leeds LS17 7HW
Lighting Technology is undergoing its biggest transformation since the incandescent lamp, with LED technology expected to take 80% of the market by 2020. The speaker explores this transition by identifying applications already dominated by LEDs and those at a tipping point that will influence the future.

SOUTH YORKSHIRE AREA WITH IET

Thu 17 Jan 2013 – 6.30pm
Refreshments: 6.00pm
Intellectual property and protecting your ideas - from a business perspective
Speaker: Sarah Vaughan – Withers & Rogers LLP
Venue: The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA
Protection of intellectual property can be a very useful tool for keeping businesses competitive, but knowing where to start can be extremely daunting. Withers & Rogers will give a talk providing practical advice on ways of promoting invention generation, how to document developments, ways to identify ideas for patenting, and issues to consider when embarking on a new project. The talk will cover different approaches to suit the needs of different businesses and provide attendees with simple tools to take away and implement in the workplace.
Pre-registration is required for this event.

SOUTH YORKSHIRE AREA

Thu 7 Feb 2013 – 6.30pm
Refreshments: 6.00pm
Nuclear New Build Industrial Challenges - A Rolls-Royce Perspective
Speaker: John Molyneux, Capability Director Engineering – Rolls-Royce, Civil Nuclear
Venue: The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA
To maximise their opportunity due to the current Nuclear renaissance, companies and individuals need to consider their approach thoroughly. This lecture discusses the opportunities, the individual skills which will be needed, and the implications on business preparations, technology and investment. Pre-registration is required for this event.

WESTERN AREA

Wed 23 Jan 2013 – 6.30pm
Technical Visit to Ginetta Cars
Venue: Ginetta Cars Ltd, Helios 47, Garforth, Leeds LS25 2DY
A chance to repeat the successful previous visit to Ginetta Cars in Garforth. The date and time will be re-confirmed nearer the time. Numbers may be restricted so pre-registration with the Admin Officer is essential.

NORTHERN AREA WITH IET

Wed 23 Jan 2013 – 6.30pm
Technical Visit to Ginetta Cars
Venue: Ginetta Cars Ltd, Helios 47, Garforth, Leeds LS25 2DY
A chance to repeat the successful previous visit to Ginetta Cars in Garforth. The date and time will be re-confirmed nearer the time. Numbers may be restricted so pre-registration with the Admin Officer is essential.

WESTERN AREA

TBC Feb 2013
Crosslee Site Visit
Venue: Crosslee, Hipperholme, Halifax HX3 8DE
One of Europe’s largest tumble dryer manufacturers and fully UK manufactured! This site visit will tour the bespoke machinery and production lines which make it possible for Crosslee to output over 350 tumble dryers per hour! Register with the Admin Officer to reserve a place and receive further details when available.

WESTERN AREA

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SOUTH YORKSHIRE AREA

Thu 7 Feb 2013 – 6.30pm
Social Evening
Venue: Head of Steam, St. George’s Square, Huddersfield HD1 1JB
This is one of our regular social evenings for members to meet and greet other engineers in the local area. We are always looking out for new members and mentors and for event ideas, so please drop in if you can offer your support or you just want to network in a relaxed environment. This would be a great opportunity for people who attended the Get Registered event to find a sponsor!
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For more information please visit www.davidbrown.com or call +44 (0) 1484 465500
RAILWAY DIVISION NORTH EASTERN CENTRE
Wed 13 Feb 2013 – 6.30pm
Refreshments: 6.00pm
Keynote Address
Speaker: TBC
Venue: National Railway Museum, Leeman Road, York YO26 4XJ
Our most prestigious event covering the hottest topic for the Railway in the North East. Please register with the Admin Officer to receive further details about this talk when available.

EASTERN AREA
Wed 20 Feb 2013 – 7.00pm
Refreshments: 6.30pm
Bringing Wind Power Ashore
Speaker: Matthew Knight CEng MIET – Siemens Power
Venue: Robert Blackburn Building, University of Hull, Hull HU6 7RX
Britain has the best offshore wind resource in Europe. 50GW of projects are planned representing an investment of around £150 billion. But building the wind farms is only part of the story. Connecting offshore wind farms to the onshore grid presents a whole string of challenges - planning, regulation, financing as well as the practical issues of trying to put electrical equipment in the midst of the sea. This talk will cover these technical and non-technical issues, progress to date and the future for offshore electricity grids.

REGION
Wed 20 Feb 2013 – 6.30pm
Refreshments: 6.00pm
Fellows Workshop
Speaker: Denis Healy – Institution of Mechanical Engineers
Venue: Cummins Turbo Technologies Ltd, St Andrews Road, Huddersfield HD1 6RA
The Regional Business Development Manager will be running a 2 hour workshop for Members considering Fellowship. Come along and find out what’s involved. The process is more straightforward than most people think.
Pre-registration is required for this event.

NORTHERN AREA
Wed 20 Feb 2013 – 2.00pm
European Radioisotope Production for Space Power Sources
Speaker: Matthew Clough – National Nuclear Limited
Venue: Lecture Theatre A (room 2.23), Holdsworth Engineering Building, University of Leeds, Clarendon Road, Leeds LS2
Future space missions beyond Jupiter can no longer make use of power from solar energy. Energy production from nuclear sources by means of a Radioisotope Thermoelectric Generator is key to meeting power demands. The presentation describes the investigations undertaken to identify the necessary science and engineering required to extract the chosen radioisotope (Americium – 241) which is found in stored civil plutonium. These investigations also consider the radiation and contamination hazards and the consequent design of novel shielded glove boxes and remote telemanipulators. Three dimensional CAD was used to model the plant to ensure a workable design providing the required throughput of product and a 15 year plant lifetime. The presentation will also include a brief description of the essential elements and operation of a Radioisotope Thermoelectric Generator.

SENIOR MEMBERS WITH IET
Thu 21 Feb 2013 – 6.00pm
Refreshments: 5.45pm
Technical Visit to Menwith Hill RAF Station
Venue: RAF Menwith Hill, Harrogate HG3 2RF
This high technology installation is an integral part of the US DoD worldwide defence communications network that provides intelligence support. Numbers are restricted so early registration with the Admin Officer (before 31st Dec) is essential.

SOUTH YORKSHIRE AREA WITH SMEA
Thu 7 Mar 2013 – 6.30pm
Refreshments: 6.00pm
An Unreliable History of Sheffield Steel
Speaker: Mick Steeper – Siemens
Venue: The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA
This personal view of Sheffield’s steel heritage and of its underpinning engineering is a story in three chapters. It begins with cutlery and edge tools, continues with the genesis of volume steelmaking and arrives at the present day through the era of alloy and speciality steels (including of course Harry Brearley, in this centenary year of his discovery of stainless). The speaker admits to a perspective that is sometimes apocryphal and romantic, based on tales discovered and embellished throughout thirty-plus years of a Sheffield engineering career. A similarly idiosyncratic view of the future of steel in general, and of Sheffield steel in particular, will complete the talk.
Pre-registration is required for this event.
SENIOR MEMBERS WITH ICE RETIRED MEMBERS
Thu 14 Mar 2013 – 11.00am
Design & Development of the Nuclear Power Station at Wylfa on Anglesey
Speaker: Bill Ixer CEng FICE
Venue: Rogerthorpe Manor Hotel, Thorpe Lane, Badsworth, Pontefract WF9 1AB
The lecture will be concerned with all aspects of the design and development of a modern state of the art nuclear installation as part of Britain’s diversified electricity industry. Registration with the Admin Officer is required for the lecture; lunch is available for £11.

INVITATION FROM THE ICE RETIRED MEMBERS.

RAILWAY DIVISION NORTH EASTERN CENTRE
Thu 14 Mar 2013 – 6.30pm
Further Developments in Rolling Contact Fatigue
Speaker: TBC
Venue: Wabtec Rail Ltd, Doncaster Works, Hexthorpe Road, Doncaster DN1 1QY
Five minutes’ walk from Doncaster railway station via footbridge. Free car parking via Hexthorpe Road entrance. Please register with the Admin Officer to receive further details about this talk when available.

REGION
Fri 15 Mar 2013 – 7.00pm
Yorkshire Regional Dinner
Speakers: Prof Isobel Pollock CEng Hon DSc FIMechE FCGI FRSA – President of the Institution of Mechanical Engineers; and Neil MacDonald - The Master Cutler
Venue: The Cutlers’ Hall, Church Street, Sheffield S1 1HG
Following the huge success of this year’s Presidential Dinner, you are cordially invited to attend the Yorkshire Regional Dinner 2013. The evening will combine a presentation of commemorative certificates to members who have achieved Corporate Membership or become a Fellow of the Institution within the last year, together with the opportunity for members and businesses to network and strengthen existing relationships. Guests will be addressed by the 127th President of the Institution, Professor Isobel Pollock and The Master Cutler, Neil MacDonald.

AUTOMOBILE DIVISION YORKSHIRE CENTRE WITH NORTHERN AREA
Tue 26 Mar 2013 – 7.00pm
Aston Martin
Speaker: Ian Minards, Director Product Development – Aston Martin Lagonda
Venue: JCT600 Brooklands Aston Martin, Ring Road, Lower Wortley, Leeds LS12 6AA
Following the recent Geneva Motor Show, a further update from Aston Martin on new releases and developments, including an opportunity to get up close with the Aston Martin range of cars, including the new Vanquish. Now in its fifth year, this event is always popular and registration with the Admin Officer is required.

SENIOR MEMBERS WITH IET
TBC Apr 2013
Proposed Technical Visit to Battle of Britain Memorial Flight HQ
Venue: RAF Coningsby, Lincolnshire N4 4SY
The visit is expected to provide a background to the work of the flight and also provide an opportunity for a close up view of the planes including Lancaster, Spitfire, Hurricane, Chipmunk and Dakota. It will be a coach only visit, leaving from Leeds. Details of date, cost and time of departure will be available in January 2013. Register with the Admin Officer to confirm your interest and to receive further details.

EASTERN AREA
Wed 20 Mar 2013 – 7.00pm
Engineering the System
Speakers: Dom Bagley / David Mann / Mark Robinson / Jasper Kidger – ANSYS UK Ltd
Venue: Robert Blackburn Building, University of Hull, Hull HU6 7RX
Simulation based analysis including CFD and FEA has delivered huge improvements to engineering design and understanding over the last 40 years. This talk will look at examples of how engineers are using the range of tools available to simulate entire systems, including component design, structural design, control systems and environmental condition.

NORTHERN AREA WITH IET
Wed 20 Mar 2013 – 6.30pm
Leeds Built Cranes - a remarkable update!
Speaker: Richard Gibbon OBE, CEng FIMechE – Former Head of Engineering & Collections at the National Railway Museum
Venue: Leeds Seventeen Hotel, Nursery Lane, Alwoodley, Leeds LS17 7HW
Richard Gibbon is well-known for his major activities in railway and mechanical engineering. He has carried out detailed research into crane design and manufacture, and will discuss recently updated and important developments within the industry.

PAGE 16
WESTERN AREA
Sat 6 Apr 2013 – 11.00am (meet in reception at 10.30am)
Family Outing at the National Coal Mining Museum
Venue: National Coal Mining Museum, Caphouse Colliery, New Road, Overton, Wakefield WF4 4RH
Whilst current engineers may be looking into new forms of energy production, Industrial Britain was founded on power generation from fossil fuels. Bring your family and come with us for a guided tour of a real coal mine to explore how conditions and practices have changed over the years. It would particularly be nice to see any engineers on the day who may have been involved in the industry and for you to offer your experiences on the tour. Please bring sensible footwear and clothing as this is a real mine! Back by popular demand, this event is pre-registration only. Book early to avoid disappointment, as numbers are restricted.

EASTERN AREA
Thu 11 April 2013 – 6.00pm
Technical Visit - ZCars
Speakers: Simon Smith & Chris Allanson – ZCars Ltd
Venue: ZCars Ltd, Gallows Farm, Hull Road, Aldbrough, Hull HU11 4RE
ZCars performance engineering specialises in fast road, race, rally, kit cars and project builds. IMechE members will get a unique opportunity to visit their premises in Aldbrough, Hull. As part of the factory tour, attendees will see what exciting projects they are currently involved with, as well as learning more about the custom car industry. Registration is essential so book early to avoid disappointment. Places are limited and will be allocated on a first come first served basis.

NORTHERN AREA
Wed 17 Apr 2013 – 6.30pm
Refreshments: 6.00pm
Enhancing the Safety and Reliability of Total Joint Replacement through Advanced Test Methods
Speaker: Dr Claire Brockett CEng MI MechE – Institute of Medical and Biological Engineering, University of Leeds
Venue: School of Mechanical Engineering, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT
Since the 1990s, pre-clinical evaluation of total joint replacement has been accepted as a benchmark for assessing the wear performance of new designs and materials. Significant enhancement in joint replacement technology has been identified through these methods. Simulation techniques to date have widely focussed on a well-positioned prosthesis in an ‘average’ patient, and these tests examine wear performance using a standard walking cycle. The Institute of Medical and Biological Engineering at the University of Leeds has been developing experimental techniques to create a stratified approach to pre-clinical testing, where the performance of an implant can be examined through a larger envelope of more adverse conditions.

RAILWAY DIVISION NORTH EASTERN CENTRE
Wed 17 Apr 2013 – 6.30pm
Refreshments: 6.00pm
Trains for Passengers
Speaker: TBC
Venue: Leeds Art Gallery, The Headrow, Leeds LS1 3AA
Five minutes’ walk from Leeds railway station. Please register with the Admin Officer to receive further details about this talk when available.

WESTERN AREA
Thu 18 Apr 2013 – 6.30pm
Social Evening
Venue: Head of Steam, St. George’s Square, Huddersfield HD1 1JB
This is one of our regular social evenings for members to meet and greet other engineers in the local area. We are always looking out for new members and mentors and for event ideas, so please drop in if you can offer your support or you just want to network in a relaxed environment. This would be a great opportunity for people who attended the Get Registered event to find a sponsor!

AUTOMOBILE DIVISION YORKSHIRE CENTRE
Tue 7 May 2013 – 6.30pm
Refreshments: 6.00pm
Automobile Division – Chairman’s Address – Engine Downsizing
Speaker: Dr Chris Brace – University of Bath
Venue: Moorhouse Room, Cummins Turbo Technologies Ltd, St Andrews Road, Huddersfield HD1 6RA
Please register with the Admin Officer to receive further details.

WESTERN AREA
Tue 14 May 2013 – 6.00pm
Marshalls Site Visit
Venue: Marshalls plc, Birkby Grange, Birkby Hall Road, Huddersfield HD2 2YA
Established in the late 1880s, Marshalls is the UK’s leading manufacturer of superior natural stone and innovative concrete hard landscaping products, supplying the construction, home improvement and landscape markets. The Group operates its own quarries and manufacturing sites throughout the UK, including a network of regional service centres and 2 national manufacturing and distribution sites. This site tour will visit their West Yorkshire operations. Pre-registration is required for this event.
EASTERN AREA
Wed 15 May 2013 – 6.30pm
Technical Visit - Drax Power Station
Speaker: Ann Gray – Drax Power Limited
Venue: Drax Power Station, Selby YO8 8PH
A chance to visit the UK’s largest power station generating about 7% of the country’s electricity demand. It is a coal-fired power station capable of cofiring biomass and petcoke. The tour will include a site induction followed by a site tour on a bus which will visit the control room, turbine hall and nature reserve. A presentation will be given in the conference room to cover how the plant functions. Registration is essential so book early to avoid disappointment. Places are limited and will be allocated on a first come first served basis.

NORTHERN AREA
Wed 15 May 2013 – 6.30pm
Refreshments: 6.00pm
BorgWarner Turbo Systems
BorgWarner Turbo Systems are a global leader in turbocharger technology. This visit includes a tour of their modern facilities, an overview of BorgWarner and a presentation on turbochargers. Registration is essential to allow screening of attendees.

SENIOR MEMBERS WITH IET
Wed 15 May 2013
Annual York Event Part One – Technical Visit
Venue: TBC
The visit is expected to be concerned with the impact of electronics in the media industry - full details TBC. Register with the Admin Officer to receive further details when available.

SENIOR MEMBERS WITH IET
Wed 15 May 2013 – 4.30pm
Annual York Event Part Two – High Tea
Venue: Department of Electronics, University of York, Heslington, York YO10 5DD
Registration with the Admin Officer is essential.

SOUTH YORKSHIRE AREA
Thu 16 May 2013 – 6.30pm
Refreshments: 6.00pm
Huge Engines in Huge Ships
Speaker: John Illingworth CEng MIMechEMIET MIIMarEST
Venue: The Source at Meadowhall, 300 Meadowhall Way, Sheffield S9 1EA
This talk will cover the design and technology associated with the huge diesel engines that power modern day tankers, which can carry 500,000 tonnes of crude oil. These engines themselves weigh in excess of 2,000 tonnes, so come and marvel at their scale.
Pre-registration is required for this event.

AUTOMOBILE DIVISION YORKSHIRE CENTRE
Tue 4 June 2013 – 7.00pm
Refreshments: 6.30pm
Mini WRC – Intelligent Engineering for Rally Performance
Speaker: Damian Harty - Senior Research Fellow at Coventry University
Venue: Sandal Mini, 100 Leeds Road, Huddersfield HD1 6NN
Please register with the Admin Officer to receive further details.

EASTERN AREA
Wed 19 Jun 2013 – 6.30pm
Refreshments: 8.00pm
Social Event – Humber Park Rescue/ Country Park Inn
Speaker: TBC – Humber Rescue
Venue: Cliff Road, Hessle Foreshore, Hessle, Hull HU13 0HB
A talk will be given about the role and activities of Humber Rescue and a tour of their facilities and boats. This will be followed by a buffet at the Country Park Inn.
Pre-registration is required for this event.
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