



Yorkshire and the Humber Regional Network Newsletter Spring 2012

The Institution of Engineering and Technology

Yorkshire & the Humber Prestige Lecture 2012 - The Customer Led Network Revolution - the UK's largest smart grid project

The **2012 Prestige Lecture** will be held on **Wednesday 7th March** at **The Rose Bowl, Leeds Metropolitan University**, Portland Crescent, Leeds LS1 3HB with a buffet meal at 6.30pm & presentations starting at **7.00pm**.

With the drive to **reduce the UK's carbon emissions**, increasingly generators are connecting directly to the distribution network & customers are becoming more diverse, with some of them **generating their own electricity** & others using technology such as heat pumps & electric vehicles, placing new demands on the electrical distribution network.

The **Customer Led Network Revolution** is the UK's **largest smart grid project** & at the forefront of the move to a **low carbon economy**. Over a three-year period, Northern Powergrid & its partners will be trialling smart grid solutions on the distribution network within the electricity grid as well as creating **smart-enabled homes** to give customers more flexibility over the way they use & generate electricity. The results will help the industry make sure the electricity networks can handle the mass introduction of solar panels, electric cars & other low-carbon technologies.



One year in from its outset, **key engineers** responsible for the success of the project will **present progress to date** in addressing the challenges associated with widespread integration of distributed generation & the move towards a dynamic electricity distribution network.

We're fortunate to have **Professor Barry Jones** IET Vice President giving the opening address & **Jim Cardwell**, Head of Regulation & Strategy & **Mark Nicholson**, Head of System Strategy, both from **Northern Powergrid** & **Professor Phil Taylor** Deputy Director of the Durham Energy Institute providing the stimulating presentations with plenty of time for a question & answer session afterwards.



View from the Chair

I extend my very best wishes to you for 2012. We have once again put together an interesting & varied programme of science & engineering lectures & visits for you. An increasing number of members now using social networking & our websites to keep in touch with what is happening in & around our local networks & you can find details of our programme on the IET website, Twitter, LinkedIn & the IET Yorkshire blog (iet-yorkshire.blog.co.uk). The IET is also aiming to modernise the way its members come together. Did you know that you can form your own community? It doesn't have to be along the lines of a formal local network but can be made up of a small number of members who have an interest or

expertise in a particular topic or it might exist purely on-line. Search out the New Communities Initiative. Details of our Prestige Lecture appear in the newsletter & we hope to see you there. I would like to conclude by thanking all the local network volunteers from around the region for their valuable time & effort in making the Y&H Region a vibrant community of engineers. **MICK NADIN, Chairman – Yorkshire & the Humber RN.**

Become Involved – A message from the Editor

I joined the IET (or the IEE as it was then) at the very start of my career as a student. **At first I was coerced** into going to events by my lecturers and then found that I was interested in the contents and also the refreshments that were provided (well, I was a student then). Over the years I've become **more involved as a volunteer** for the IET giving, being involved in and organising some of the events & debates & becoming involved in schools activities as a Faraday Engineer & a Science & Engineering Ambassador. I joined the IET for selfish reasons as I wanted to achieve my CEng and to become of Fellow both of which I've achieved.

"I joined the IET
for selfish reasons"

But, & here's the rub, **I found that when I became more active** as a volunteer for the IET the **satisfaction** I gained from being involved **was multiplied** by the amount of effort I put in. I can genuinely say that volunteering is one of the many beneficial things I've done in my life. It is life enhancing & gives me a chance to promote what I strongly believe - that science, engineering & technology are central to the success of our advanced society. It wouldn't work without us & we deserve to be recognised more than we are within society & we all need to play our part to promote our real value.

Why don't you become involved too?

We are always looking for keen individuals to join our committees to help promote science, engineering & technology and to help us organise the events & to exploit the technologies that allow us to reach a large audience. We're seeking out new ideas, new ways of meeting our objectives. **Why not join the team?** If you are interested, please contact Joanne Longton, the Community Relationship Manager for Yorkshire via jlongton@theiet.org and come along and see what we do. You'll be most welcome.

Event Programme Autumn 2011

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| <p>Tues 17 Jan Humber</p> | <p>17:30 until 20:30 Kingsway Centre Kingsway Scunthorpe DN17 1AJ Contact: Adam Bailey humber@theiet.org</p> | <p>Professional registration workshop Professional registration demonstrates commitment to professionalism & recognises your skills & experience. There are four types of registration: Chartered Engineer (Ceng), Incorporated Engineer (Ieng), Engineering Technician (EngTech), ICT Technician (ICTTech). This workshop provides an individual appointment with an advisor to discuss your application. Pre-registration is essential. To book send an email to getchartered@theiet.org with the heading "Humber – 17 Jan" in the subject line, with level of registration you are seeking, a contact telephone number, your membership number (if applicable) & a preferred appointment time.</p> |
| <p>Wed 18 Jan WY SM</p> | <p>10:15 for 10:30 Leeds 17 Hotel Nursery Lane Alwoodley Leeds LS17 7HW Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>Clean coal and carbon capture <i>Dr Stephen Brown, CO2 Sense Yorkshire</i> Join us to examine the challenges & risks of developing large scale carbon capture & storage to reduce 'Greenhouse Gas' emissions. The most recent developments will be discussed.</p> |
| <p>Wed 25 Jan NY</p> | <p>18:00 for 18:30 Lecture Theatre York College Sim Balk Lane York YO23 2BB Contact: Paul Smith rpsmith@theiet.org</p> | <p>So you're an engineer: Let's make you into a businessman too and make 'loadsa money' <i>Paul Smith.</i> There are not enough engineers in prominent positions within our society and lets face it, our advanced industrialised society wouldn't work without engineers. It is time to mobilise the intellect and drive of engineers and you do that through commerce. Come along and find out how. Pre-registration preferred.</p> |
| <p>Thu 26 Jan SY</p> | <p>18:00 to 21:00 Sheffield Hallam University, Owen Building, 5th Floor, Peak Lecture Theatre, Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Schools & Homes Energy: Education Project/Solar-Active Event Celebrating 19 years of Solar-Active: plugging into the sun. Series of workshops & panel discussions covering everything solar in South Yorkshire. Visit the web site for details and registration http://new.solar-active.com/energy</p> |

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| <p>Thu 26 Jan WY</p> | <p>18:00 for 18:30 Room CWG-11, Canal West Building, University of Huddersfield, Queensgate, Huddersfield HD1 3DH Contact: Dr Crinela Pislaru 01484 472162 c.pislaru@hud.ac.uk</p> | <p>Evolution of Test & Diagnostics Solutions for Maintaining Openreach Access Network. <i>Gerard Powis, Chief Engineer, Open Reach, BTplc</i> Openreach installs, services, supports & maintains the wiring, fibres & connections that link 10M+ homes & businesses in Britain to their Communications Providers' networks. Since the inception of Openreach in 2006, a typical user has seen their experience of an access network fault, improving from about one incidence in 9 years to about one in 14 years by step-by-step improvements from line plant upgrades to Test & Diagnostics (T&D) enhancements. Gerard will describe how these changes have been implemented.</p> |
| <p>Tue31 Jan WY</p> | <p>18:00 for 18:30 Leeds University, School of Electrical and Electronic Engineering, Leeds LS2 9JT Dr Andrew Kemp 0113 3432078 a.h.kemp@leeds.ac.uk</p> | <p>Lifeskills – Take Control of Your Career There is no denying that the current job market is a tough place to be. More people seeking jobs means that competition for interviews is fierce. The workshop will teach you key skills to enable you to take control of your career, stand out from the crowd and make that employer wants you ! Online pre-registration is essential.</p> |
| <p>Thu 9 Feb NY</p> | <p>19:00 Ascot House Hotel 53 Kings Road Harrogate HG1 5HU Contact: Alan Shaw a.p.shaw@tees.ac.uk</p> | <p>Manufacturing opportunities! <i>Professor Rajkumar Roy.</i> A focus on through-life engineering services as a new opportunity for high value manufacturing. Technologies & engineering solutions are required to support development of a multi-platform through-life engineering services industry sector. It is also necessary that the supply chain is developed as we support the OEMs. Professor Roy is leading a national EPSRC Centre in this area & will outline his thoughts & vision for the UK Manufacturing.</p> |
| <p>Mon 13 Feb SY YPS</p> | <p>17:30 Room E132, Sir Frederick Mappin Building, University of Sheffield, Mappin</p> | <p>Rock Guitar in 11 Dimensions What causes the revolutionary, history changing sound of a rock guitar & how does it help us to understand the nature of</p> |

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| | <p>Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>the stuff we are made of? Famelab winner Mark Lewney explains the physics of rock from Vivaldi to AC/DC, explains the secret of the Stradivarius, & shows how string vibrations might lie at the heart of the big questions about the universe. Online pre-registration is preferred.</p> |
| <p>Wed 15 Feb SY</p> | <p>17:00 for 20:30 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Fellowship Workshop event (Pat Dinner) Opportunity to have an individual appointment with a Fellowship advisor to discuss your CV or application. Pre-registration is essential. To book send an email to getchartered@theiet.org with the heading "South Yorkshire – 15 Feb" in the subject line, a contact telephone number, your membership number (if applicable) & an approximate time for your appointment.</p> |
| <p>Thu 16 Feb WY SM</p> | <p>10:15 for 10:30 Leeds 17 Hotel, Nursery Lane Alwoodley, Leeds LS17 7HW Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>Global navigation satellite systems (GNSS and GPS) <i>Air Commodore Norman Bonner.</i> A talk about the history and development of these systems that play such an important part in both military and civil aspects of everyday life.</p> |
| <p>Tue 21 Feb SY YPS</p> | <p>09:30, Meet up outside Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>Technical Visit to Yorkshire windows Yorkshire Windows manufacture glass work for a range of products. The production of which requires a range of engineering processes including sensitive control systems. Pre-registration required so please book online.</p> |
| <p>Wed 22 Feb Humber</p> | <p>19:00 for 19:30 Robert Blackburn Building University of Hull Kingston upon Hull HU6 7RX Contact: Adam Bailey humber@theiet.org</p> | <p>Siemens Wind Turbines <i>Matthew Knight, Siemens.</i> Britain has the best offshore wind resource in Europe. 50GW of projects are planned, an investment of around £150B. Connecting offshore wind farms to the onshore grid presents challenges. We'll cover technical & non-technical issues, progress to date & the future for offshore electricity grids. Online pre-registration for this event preferred.</p> |

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| <p>Wed 22 Feb SY</p> | <p>18:30 for 19:00 University House, University of Sheffield, Western Bank, Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Data Protection Dai Davies - joint with BCS. Synopsis not available at the time of publication. Please check our web site for details nearer the date. www.theiet.org/southyorkshire</p> |
| <p>Wed 22 Feb WY</p> | <p>18:00 for 18:30 Haworth Scouring, Cashmere Works, Birksland Street, Bradford BD3 9SX Contact: Richard Norris 01274 846500 richardn@haworthscouring.co.uk</p> | <p>Visit to Haworth Scouring. Bradford based wool scouring company operates a efficient & environmentally friendly business. Opportunity to see a comprehensive modernisation scheme undertaken by a European early-stage processor where the new scouring sets are tightly integrated with a modern effluent treatment plant. Pre-registration essential via the event organiser.</p> |
| <p>Thu 23rd Feb SY Joint with IMechE who have organized the lecture</p> | <p>18:30 for 19:00 The Source Skills Academy at Meadowhall, 300 Meadowhall Way, Sheffield, S9 1EA Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Sound Sense - Ivor Tiefenbuun MBE, Founder & Executive Chairman - Linn Products Ltd. A talk about precision engineering & teamworking challenges required to do justice to pitch line accurate sound reproduction. Linn products is a Scottish precision engineering company founded by the speaker & dedicated to pitch accurate sound reproduction. Describes the building of a company dedicated to great products by recruiting great people & working as effectively as possible through integration, flexibility and teamwork.</p> |
| <p>Thu 23 Feb WY Man</p> | <p>18:30 Room 12, Caedmon Hall, Leeds Metropolitan University, Beckett Park Campus Contact: Bill Davis 0113 262 8528</p> | <p>Open Evening at LMU. Dr Steve Wilkinson & Duncan Foley will be demonstrating the safe application of animation simulation techniques within the medical, food & entertainment sectors. Also IET membership information update Potential members & students welcome.</p> |
| <p>Tue 28 Feb NY</p> | <p>18:00 for 18:30 The Holiday Inn (J40/M1), Queens Drive, Ossett, WF5 9BE. Contact: Paul Smith rpsmith@wisegreyowl.co.uk</p> | <p>Effective Social Networking for IET activities. Paul Smith CEng FIET, Treasurer NYN. How did you find out about Steve Jobs' death? Many found out via Twitter. Find out how to use these networks effectively, ostensibly for IET activities but also in your business and private life. Pre-registration essential.</p> |

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| <p>Wed 29 Feb SY</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>The NATO AEW Force - its origins, development and current operations - Air Commodore Norman Bonnor. Covering the origins of the Force in the mid 1970s, reasons for the demise of the Nimrod AEW, development of the Force & its current & recent operations. Speaker was Chief Experimental Navigation Officer at Boscombe Down & promoted to Air Commodore at SHAPE HQ in Belgium as Deputy Commander of NATO AEW.</p> |
| <p>Mon 5 Mar SY YPS</p> | <p>17:30, Room E132, Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg 07816 968472 graham.r.goldberg@gmail.com or Richard Taylor 07825 813539 ricjimeee@gmail.com</p> | <p>Lifeskills: Professional presentations Presentations are the best way of communicating ideas and information to a group. This workshop gives an overview of the key steps needed in order to conduct an effective professional presentation. Online pre-registration is essential.</p> |
| <p>Mon 5 Mar WY</p> | <p>18:00 for 18:30 Room CWG-11, Canal West Building, University of Huddersfield, Queensgate, Huddersfield HD1 3DH Contact: Dr Crinela Pislaru 01484 472162 c.pislaru@hud.ac.uk</p> | <p>The Railway Wheel-Rail Interface: damage mechanisms & potential solutions. <i>Professor Simon Iwnicki, Railway Technology Unit, Manchester Metropolitan University, Professor Andrew Ball & Dr Crinela Pislaru, Diagnostic Engineering Centre, University of Huddersfield.</i> The deterioration mechanisms at the wheel-rail interface are a major maintenance cost. Research involved practical & theoretical cross-disciplinary expertise. Speakers will present results of their research which combined dynamic behaviour of railway vehicles & interaction with the track with the process monitoring, modelling & control of complex systems.</p> |
| <p>Tue 6 Mar IET & IMechE joint meeting</p> | <p>18:00 for 18:30 Leeds 17 Hotel, Nursery Lane, Leeds, LS17 7HW Contact: Bill Davis 0113 262 8528</p> | <p>Development of a UK Civil Nuclear Supply Chain for the Future. <i>Dr Stephen Court, Nuclear AMRC</i> will be examining the need to replace existing power generation plants. He will also be looking at how 'Low carbon' requirements place pressure on existing power plant construction & supply chains for UK based companies.</p> |

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| <p>Tue 6 March SY YPS</p> | <p>13:00 Meet up outside Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>Technical Visit - PZ Cussons plc – Pharmaceutical. PZ Cussons is a leading manufacturer and distributor of a hygiene products, especially soaps & personal care items. These are marketed under the flagship Imperial Leather brand & others. Also manufactures refrigerators & other white goods, Production includes large fully automated factories; one of which (Salford) will be visited. Pre-registration is essential.</p> |
| <p>Wed 7 Mar Y&H</p> | <p>18.30 for 19:00 The Rose Bowl, Leeds Metropolitan University, Portland Crescent, Leeds LS1 3HB Contact: Joe Helm 01977 605954 Joseph.helm@northernpowergrid.com</p> | <p>IET Yorkshire & Humber Prestige Lecture: The Customer Led Network Revolution – the UK’s largest smart grid project. Please see front page of the newsletter for details. <i>Jim Cardwell, Head of Regulation & Strategy, Northern Powergrid, Mark Nicholson, Head of System Strategy, Northern Powergrid, Professor Phil Taylor, Deputy Director, Durham Energy Institute.</i> Pre-registration is essential via the WY web site.</p> |
| <p>Fri 9 Mar NY</p> | <p>18:30 Room RCH/037, University of York, YO1 5DD Contact: Patrick Mason patrickmason@ayup-ltd.co.uk</p> | <p>Cloud Computing <i>Dai Davis CEng MIET</i> Come and find out what all the talk is of cloud computing and what difference it will make to our lives.</p> |
| <p>Tue 13 Mar Humber Joint with North Lincs Branch of IMC</p> | <p>19:00 for 19:30 Kingsway Centre Kingsway Scunthorpe DN17 1AJ Contact: Clarry Whittingham Clarry.whittingham@corusgroup.com</p> | <p>Nuclear Safety – Seismic and External Hazards in the Nuclear Industry. <i>Andrew Coatsworth, Sellafield Ltd.</i> In the light of the Fukushima Daiichi nuclear disaster we'll address nuclear safety wrt seismic & external hazards. Andrew Coatsworth is Capability Leader for Seismic, External Hazards & Geotechnical Centre of Expertise Civil, Structural & Architectural Department Engineering Directorate Sellafield Ltd & previously at NII (now the Office of Nuclear Regulation). Andrew led a team to carry out the Sellafield Seismic Damage Assessment for the Seismic Site Emergency Plan Register via humber@theiet.org</p> |
| <p>Tue 13 Mar</p> | <p>19:00 for 19:30 Cutting Edge Restaurant, Sheffield Hallam University,</p> | <p>The 10th Annual Science Week Quiz Teams of four are invited to take part in</p> |

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| SY | City Campus, Howard St, Sheffield, S1 1WB Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org | this annual light hearted, fun-filled, general knowledge (and a little science) quiz. Cash prizes of £75, £50 and £25. All teams warmly invited. Nibbles and refreshments provided. |
| Tue to Thu 14 to 16 Mar SY | 10:00 for 14:30 South Yorkshire Aircraft, Mu- seum, Dakota Way, Airborne Road, Doncaster DN4 7FB Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org or j.higginson@shu.ac.uk | Science Week Workshops - How Aeroplanes Fly. <i>Dr Mike Diprose</i> The same workshop will be run over 3 days. It will explain how wings and engines work to make air work for us. The workshop will suitable for 7 to 11 year olds . |
| Wed 14 Mar SY | 18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org | Science Week IET Prestige Lecture: The Tao of Everest – Ian Woodall As the first rays of dawn crept across the Tibetan plateau Ian Woodall stepped on to the summit of Mount Everest, one of a select few to have climbed Everest by both its south & north sides. During his 1st ascent from the south, Ian's team were trapped at 24,000ft in Everest's worst storm which claimed the lives of 8 fellow climbers. After the trauma of the storm Ian & his team chose to try again, reaching the summit as the only ones left on the mountain. Two years later while attempting the north side of Everest Ian stopped below the summit to try & help a dying American climber. The woman's first words were, 'don't leave me'. Yet ultimately Ian had to leave to secure the safety of his own team. Nine years later Ian returned to 26,000ft to bury the woman he had been forced to leave behind. Wrapping her in the Stars & Stripes he slid her gently down the North Face to join her husband lying somewhere below. Ian brings the triumphs & tragedies of Mount Everest to his audience in a funny, poignant story of personal inspiration & practical leadership. |
| Thu 15 Mar WY | 18:00 for 18:30 Room CWG-11, Canal West Building, University of Huddersfield, Queensgate, | Sharpening the Competitive Edge of Manufacturing with the “factory on a machine” <i>Professor Liam Blunt, Director of EPSRC</i> |

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| | <p>Huddersfield HD1 3DH Contact: Dr Crinela Pislaru 01484 472162 c.pislaru@hud.ac.uk</p> | <p><i>Centre for Innovative Manufacture in Advanced Metrology, University of Huddersfield.</i> The University's team of experts in the science of measurements have secured £8M for the EPSRC Centre for Innovative Manufacturing in Advanced Metrology. The Centre is breaking new ground, developing the concept of the "factory on the machine" to deliver "disruptive" solutions to UK industry in the field of Total Machining & Advanced Surfaces. A tour of the facilities will precede the lecture.</p> |
| <p>Sun 18 Mar SY</p> | <p>10:30 for 16:30 South Yorkshire Aircraft Museum Dakota Way Airborne Road Doncaster DN4 7FB Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Science Week Lectures – Arranged by <i>Dr. Mike Diprose</i> A set of lectures concerning aviation history, for the general, adult public. One lecture before lunch, lunch (buffet; provided by the IET) followed by two lectures after lunch. The day generally starts at around 10.30 hrs and ends at 16.30 hrs</p> |
| <p>Tue 20 Mar SY YPS</p> | <p>13:00 Room E132, Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>Working within the Power Industry <i>Peter Summers</i> is a graduate electrical engineer who has recently completed the 2 year graduate scheme with eon. Peter will be discussing details of the graduate scheme he completed as well as discussing details and challenges of working in the power industry.</p> |
| <p>Wed 21 Mar SM WY By invitation of the ICE</p> | <p>10:30 for 11:00 Roger Thorpe Manor, Badsworth, Pontefract, WF9 1AB Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>A View from the Bridge at Tinsley Viaduct. This lecture highlights the critical planning and strategy used to remove the 'Blackburn Meadow Cooling Towers' adjacent to the M1 elevated section near Meadow Hall. Registration required for the lecture (also for lunch if required at £10 per head)</p> |
| <p>Wed 21 Mar SY</p> | <p>18:30 for 19:00 University House, University of Sheffield, Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Maintenance Strategy (joint with IMechE) Synopsis not available at the time of publication. Please check the web site for details nearer the date. www.theiet.org/southyorkshire</p> |

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| <p>Wed 28 Mar SY Joint with CIBSE Originally 11th Jan.</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Amendments to the 17th Edition Wiring Regulations (BS7671:2008) <i>Mark Coles, IET Senior Engineer.</i> The BS7671 (17th Edition) wiring regulations were originally issued back in 2008, & the first amendment of the regulations was published in July 2011. We'll discuss the technical aspects of this, the first amendment to the regulations.</p> |
| <p>Tues 3 April SM WY</p> | <p>10:15 for 10:30 Leeds 17 Hotel, Nursery Lane, Leeds, LS17 7HW Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>Design & Application of Huge Diesel Marine Engines. <i>John Illingsworth MIET,</i> MIMarEST explains the design & technology associated with the huge diesel engines that power modern tankers which carry 500,000 Tonnes of crude oil; Engines that weigh in excess of 2,000 Tonnes themselves</p> |
| <p>Wed 4 Apr SY Joint with IET Robotics Mechantr onics TPN</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>An Overview of Robotics in Neurosurgery and the STING Case Study. <i>Dr Ferdinando Rodriguez y Baena (Imperial College).</i> Neurosurgeons currently favour minimally invasive surgical techniques, such as microsurgery & neuro-endoscopy, which enable brain lesions to be targeted with higher accuracy & less surgical complications. Advanced brain imaging is used pre-operatively to plan. Intra-operatively, minimally invasive instrumentation is inserted through a small hole in the skull of the patient. This lecture will provide an overview of the state of the art in neurosurgery, followed by a summary of the speaker's latest work on a biologically inspired flexible percutaneous probe which enables access to deep brain lesions through curved trajectories.</p> |
| <p>Wed 11 Apr SY</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Hybrid Air Vehicles - The Airship Revival – <i>Gordon Taylor, Director Sales & Marketing, Hybrid Air Vehicles.</i> A history of Hybrid Air Vehicles products & how they have achieved their rapid growth success. Includes the different programmes + explanation on the difference between a Hybrid & an Airship. See web site for more information www.hybridairvehicles.com.</p> |

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| <p>Wed 18 Apr SM WY</p> | <p>08:00 (Coach Travel) Prompt start from Leeds 17 Hotel, LS 17 7HW Lincolnshire Heritage Aviation Centre & RAF Digby, Coningsby, Lincs Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>Technical Visit to East Kirby Aviation Centre & RAF Digby's Military Command Centre. The visit has 2 parts: to see the AVRO Lancaster Runway Test & the Aviation Centre + a tour of the bunker at RAF Digby that played an important part in WWII. Digby currently supports strategic operations 24/7 whenever forces are deployed operationally. Registration essential enclosing cheque for £15.00 to cover travel & entrance fees. Bring Passport or <u>Photo Driving Licence</u> for ID purposes.</p> |
| <p>Thu 18 Apr SY</p> | <p>17:00 for 20:30 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Professional registration workshop Professional registration demonstrates your commitment to professionalism & recognises your skills and experience. There are four types of registration offered by the IET:</p> <ul style="list-style-type: none"> • Chartered Engineer (CEng) • Incorporated Engineer (IEng) • Engineering Technician (EngTech) • ICT Technician (ICTTech) <p>This workshop gives you the opportunity to have an individual appointment with an advisor to discuss your application. Pre-registration is essential. To book send an email to getchartered@theiet.org with the heading "South Yorkshire – 18 Apr" in the subject line, with level of registration you are seeking, a contact phone no, your membership number (if applicable) and an approximate time for your appointment.</p> |
| <p>Thu 19 Apr Humber</p> | <p>18:30 – 20:30 RAF Leconfield Contact: Adam Bailey humber@theiet.org</p> | <p>Technical Visit to RAF Leconfield Leconfield in East Yorkshire is home to 'E flight' of 22 Squadron, who provide a Search & Rescue (SAR) capability using RAF Sea King helicopters. Visit will include a presentation on the role of the SAR team at Leconfield & also a tour of the aircraft and facilities. Places on this visit are strictly limited. Please contact humber@theiet.org if you would like to attend this visit.</p> |

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| <p>Wed 25 Apr WY</p> | <p>18:00 for 18:30 Norcroft Centre, University of Bradford, Richmond Road, Bradford BD7 1DP Contact: Dr Rami Qahwaji 01274 236078 r.s.r.qahwaji@bradford.ac.uk</p> | <p>Applied Visual Computing: Challenge and Potential <i>Dr Rami Qahwaji and Professor Hassan Ugail, Centre for Visual Computing, Bradford University</i></p> <p>In today's world, visual computing techniques that integrate 2D / 3D image processing, machine learning and 3D graphics and modelling technologies are taking centre stage in the progress of different disciplines. In this talk, we will introduce some recent developments in the fields of satellite imaging, health care, visual media and security. Of particular interest to us is the development of new technologies for processing large multi-dimensional and multi-wavelength data sets and the provision of higher-level of understanding, visualisation and knowledge extraction. This presentation will cover some of the challenges in the investigated topics and will identify open research problems that need to be resolved along with some future research directions.</p> |
| <p>Tue 1 May WY</p> | <p>18:00 for 18:30 Room CWG-11, Canal West Building, University of Huddersfield, Queensgate, Huddersfield HD1 3DH Contact: Hussam Muhamedsalih 01484 471193 h.muhamedsalih@hud.ac.uk</p> | <p>Networking for Success. Being able to communicate effectively with those around us is vital to our success. At times, we can all find this challenging with key relationships breaking down. This workshop looks at the different ways that we can communicate with people to ensure a productive, harmonious and trusted working relationship. Pre-registration is essential.</p> |
| <p>Thu 3 May SY YPS</p> | <p>17:30 – 21:30 Mappin Building, Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>Present around the world competition – South Yorkshire heat Present around the World (PATW) is the IET's presentation competition for young engineers & technologists, aged 18 to 26.</p> |

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| <p>Wed 9 May SY</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>Soft, Fast and Very long Lasting, Space electric Propulsion - Dr Chris Welch Synopsis not available at the time of publication. Please check our web site for details nearer the date. www.theiet.org/southyorkshire</p> |
| <p>Wed 16 May SM WY</p> | <p>13:30 to 15:30 Visit to Sand Hutton, York, YO41 1LZ. 16:45 High Tea 18:00 Lecture Both at York University Contact: Dr Dick Etheridge 01484 846291 dick@etheridge.co.uk</p> | <p>Annual York Event The event takes its usual format with an afternoon visit to the Regional Food & Environment Research Centre including issues such as food manufacturing, storage & packaging systems. 'High Tea' at the university & evening lecture given by Chris Henderson on the 'Life and Achievements Of Barnes Wallis', the genius who invented Bouncing Bombs, Geodesic Framed Airships & Swing Wing Aircraft". Booking absolutely essential for visit & high tea via Dr Dick Etheridge</p> |
| <p>Wed 16 May SY</p> | <p>See web site link</p> | <p>Technical Visit - British Gypsum Sherburn in Elmet A technical visit to a modern plasterboard & coving manufacturing plant. Check the web site for details nearer the date. www.theiet.org/southyorkshire</p> |
| <p>Wed 23 May NY</p> | <p>11:00 AEI Cables Ltd, Durham Road, Birtley, Chester Le Street, County Durham DH3 2RA Contact: Cedric Wood cedric.wood@hotmail.com</p> | <p>Visit to AEI Cables Aim to be at Birtley around 11:00. After Introductions there will be a brief presentation on the history of AEI Cables., followed by a tour of the factory where the cables can be seen in manufacture from wire drawing insulating, sheathing etc. Then a visit to the test area and the fire labs for a demonstration of current testing of products. Returning to the Board room there will be a buffet lunch followed by three short presentations on the Issues facing cables and new legislation. Finish around 3pm to 3.30 pm. Numbers strictly limited and booking is essential.</p> |

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| <p>Wed 6 Jun NY</p> | <p>18:00 for 18:30 prompt South Gate House, Drax Power Station Enquiries only relating to this event please contact Mick Nadin mnadin@theiet.org</p> | <p>Greener Electricity – Biomass Generation <i>Phil Woodhall, Head of the Biomass Section, Drax Power Station.</i> Will cover the reasons for BioMass generation, what it consists of & the benefits derived from it, along with any difficulties encountered along the way. The presentation will be preceded by a tour of the Biomass plant & control room to see the generation of electricity in operation. Attendees should wear strong shoes & be prepared for stairs. Other safety equipment will be provided for use on the evening by Drax. Numbers are limited & will be given on a first-come basis. Pre-registration essential.</p> |
| <p>Wed 13 Jun SY</p> | <p>18:30 for 19:00 University House University of Sheffield Western Bank Sheffield S10 2TG Contact: Brian Heathcote 01226 383916 bheathcote@theiet.org</p> | <p>John Freeman Memorial Lecture Synopsis not available at the time of publication. Please check the web site for details nearer the date. www.theiet.org/southyorkshire</p> |
| <p>Thu 14 Jun WY</p> | <p>18:00 for 18:30 Room CWG-11, Canal West Building, University of Huddersfield, Queensgate, Huddersfield HD1 3DH Contact: Hussam Muhamed-salih 01484 471193 h.muhamedsalih@hud.ac.uk</p> | <p>Lifeskills - Making an Impact with your CV Getting your CV noticed amongst the hundreds of applicants is vital to your success in being selected for interview. This practical workshop provides hints and tips on how to make your CV stand out from the crowd. Pre-registration is essential.</p> |
| <p>Thu 14 Jun SY YPS</p> | <p>17:30 – 21:30 Mappin Building, Sir Frederick Mappin Building, University of Sheffield, Mappin Street, Sheffield S1 3JD Contact: Graham Goldberg graham.r.goldberg@gmail.com or Richard Taylor ricjimeee@gmail.com</p> | <p>Present around the World competition – Northern UK National final Present around the World (PATW) is the IET’s presentation competition for young engineers and technologists, aged 18 to 26.</p> |

Where **pre-registration is required** please go to the local network web site where you will find links to allow you to register.

Humber – www.theiet.org/humber

North Yorkshire – www.theiet.org/northyorks

South Yorkshire – www.theiet.org/southyorkshire

West Yorkshire – www.theiet.org/westyorks

KEY: **Humber** = Humber, Yorkshire Networks: **NY**=North, **SY**=South, **WY**=West, **EC&C**=Electronics, Computing & Control Group-N&WY **M**=Manufacturing Group-N&WY **SM**=Senior Members Section, **YP**=Young Professionals Section, **IoP**=Institute of Physics-Yorkshire, **GIES**=Grimsby Institute of Shipbuilding, **InstMC**=Institution of Measurement & Control, **BCS**=British Computer Society, **SMEA**=Sheffield Metallurgical & Engineering Association.

IMPORTANT EDITOR'S NOTE: It sometimes is necessary to cancel or postpone events at short notice so it is recommended that, before travelling, you check with the event organiser by email, telephone or the LN website to see if the event is taking place.

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