



The Institution of
Engineering and Technology

Lancashire and Cumbria Network



Programme Card

January 2023

Free to attend - all welcome

Professional Home for Life[®] for Engineers and Technicians

Website: <http://www.theiet.org/lancscumbria>

Chairman's Introduction

Dear Lancashire and Cumbria Network members,



Mike Foy
Chairman

Hope this finds you all well and welcome to our first electronic only events calendar as we said 'adieu' to our last printed version. In-person events have taken place, which have made a welcome return and we are looking to put on more in the upcoming months.

Although we were not able to have our 'Present around the World' competition we did run a successful local version at UCLAN attended and judged by some of the committee members - a report is included in this publication. We expect next year to partaking in the full event where winners can go on to further regional events and if successful to the full national, and maybe international, competitions.

We are also looking to re-start the North West regional network committee which is attended by other local committees from across the wider region where we can share and learn from each other and provide additional support to each other.

I would also like to welcome to our local committee our new Deputy Chairman Nigel Whittaker, a past committee member, who has returned to the UK after a number of years spent working abroad.

I hope you find something that will appeal to you in our upcoming events and we will update you should new ones come in before the next events newsletter. We would also welcome and ideas or suggestions for events and if you do have any please contact one of the committee members in your local area or myself. Our contact details are attached on the back page.

'Till next time.

Mike

Retired Members' Committee Chairman

This is my first message as Chairman of the Retired Members Committee and I look forward to our committee delivering interesting talks next year and continuing with our popular optional lunches. The events "booklet" will in future be in electronic form so check the latest information at IET Events (theiet.org/events) and visit the Lancs and Cumbria network page (<https://engx.theiet.org/local-networks/nw1>) for flyers and booking forms for the lunch. I look forward to meeting you all during 2023.

Suzanne Flynn

The Institution of Engineering and Technology - Lancashire and Cumbria Network

Lecture Programme January - June 2023

Date/Time	Event Title	Venue	Organised by & Contact	Speaker	Synopsis
Thursday 19th January 19:00	TSR2 - Cock-Up or Conspiracy	Castle Green Hotel Castle Green Lane Kendal LA9 6RG	Organised by: IET/KDES Contact: Suzanne Flynn (Suzanne.Flynn@ietvolunteer.org)	Mike Flynn	The speaker, Mike Flynn, is an experienced ex RAF fighter pilot, who was probably destined to fly the TSR2. This was not to be and Mike will give his personal view on the various factors that led up to the controversial cancellation in 1965 of, arguably, the most advanced strike aircraft of its time – cost, performance, innovation, politics, in-fighting, opposing cultures, information, disinformation, missing information, speculation. Mike will discuss what is known about the unprecedented decision to order the breaking up of the prototypes, the destruction of the drawings, tooling & jigs? And why did some airframes survive?
Thursday 19th February 19:30	Deep Water Oil and Gas Developments Offshore West Africa	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/BDAE Contact: Anne Morris (anne.morris@ietvolunteer.org)	Tony Oldfield Offshore Project Manager and Consultant	Oil and gas fields in deep water have increasingly been exploited as the more accessible fields have become depleted. Their exploitation brings ever larger challenges for technology, scale and logistics and are a success story that is little heard about in the UK. Barrovian Tony Oldfield as, Project Director of most of the developments off Africa, has the first-hand experience to tell us about these engineering exploits.
Wednesday 8th February 11:30	Blackpool Illuminations Past, Present and Future Lecture and Lunch	The Villa Wrea Green Kirkham PR4 2PE	Organised by: IET Retired Members Contact: Suzanne Flynn (suzanneflynn@gmail.com)	Richard Williams	The talk will cover Blackpool Illuminations Past, Present and Future.
Wednesday 8th February 19:30	HyNet - Decarbonisation Opportunities in the West of the UK	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/PESC Contact: Anne Morris (anne.morris@ietvolunteer.org)	John Aldersly-Williams PhD Senior Project Manager, Progressive Energy Limited	HyNet is one of the two Industrial Decarbonisation Clusters selected for Government support. It will deliver significant CO2 emissions reductions through the direct capture of CO2 from industrial sites and from facilitating fuel switching away from natural gas through the production of “blue” hydrogen. The talk will be a ‘tour’ of opportunities for decarbonisation in the West of the UK.
Thursday 16th February 19:00	John Deere	Castle Green Hotel Castle Green Lane Kendal LA9 6RG	Organised by: IET/KDES Contact: John Doffegnies (john.doffegnies@ietvolunteer.org)	TBA Cornthwaite Group, Kendal	John Deere agricultural machinery present and future. The John Deere Company has been manufacturing agricultural machinery for over 180 years.
Thursday 16th February 19:30	Bio Materials for Hips & Knees	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/BDAE Contact: Anne Morris (anne.morris@ietvolunteer.org)	Patel Kuntal Consultant Orthopaedic Surgeon Morecambe Bay Health Trust	Engineers have been busy further refining the materials used to get the best mix of properties of strength, flexibility, low friction and wear rate as well address tissue compatibility and allergic reactions. Patel Kuntal will talk about the development of the materials adopted and the advances that have been achieved.
Thursday 9th March 18:00	Routes To Registration	On-Line Event via Zoom - Prior registration essential	Organised by: IET Contact: Artur Majchrowski (artur.majchrowski@ietvolunteer.org)	John Williamson PRA	The event will cover the requirements for Professional Registration. The process will be explained, and it will be shown that the form filling is not as daunting as some people may think. You will be provided ideas on how to compile and produce the 'Evidence of Competence', focusing on the need for all to keep records. This is suitable for all who have started on the path to obtain professional engineering qualifications

For the latest news on local network activities please visit our website: [www/theiet.org/lancscumbria](http://www.theiet.org/lancscumbria)
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Thursday 16th March 19:00	Devil's Porridge	Castle Green Hotel Castle Green Lane Kendal LA9 6RG	Organised by: IET/KDES Contact: John Doffegnies (john.doffegnies@ietvolunteer.org)	John Anstey Gretna Heritage Group	Early in 1915, in response to a growing shortage of munitions, the government commissioned a huge new cordite factory on the Anglo-Scottish border. The 9 mile long site was remote, thinly populated and with little infrastructure. In August, 10,000 Irish Navvies started arriving, building their own timber houses before starting construction of the biggest factory in the world. Work also started on 2 new Garden Townships to house the 8,000 managers and 12,000, mostly women, workers coming to "stir the Devil's Porridge". Astonishingly, within 12 months, cordite was being produced and in May 1917 the King and Queen came to celebrate production reaching 800 tons a week which was as much as all the other Royal Ordinance Factories combined.
Wednesday 22th March 19:30	The Next Steps to Fusion Power	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/PESC Contact: Anne Morris (anne.morris@ietvolunteer.org)	Professor Tim Abrams The University of Manchester	The quest for limitless cheap energy has led to the continuous development of plasma fusion power in many countries. Prof Timothy Abram of Manchester University will describe some of the daunting material and containment problems in developing a prototype fusion reactor.
Wednesday 5th April 19:30	The Falklands Campaign, 1982	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/PESC Contact: Anne Morris (anne.morris@ietvolunteer.org)	Dr Scott Lindgren Naval Historian	In early April of 1972 the Argentinians took over the Falkland Islands by stealth and expelled the residual garrison force of Royal marines together with the Governor. In response to pleas for help from the Falklanders, British Prime Minister Margaret Thatcher authorised the military operation "Corporate" to take back the British Protectorate. This talk will describe the epic struggle which led up to the surrender of Argentinian forces in Port Stanley on 14 June.
Thursday 20th April 19:00	History of Gilkes	Castle Green Hotel Castle Green Lane Kendal LA9 6RG	Organised by: IET/KDES Contact: John Doffegnies (john.doffegnies@ietvolunteer.org)	Chris Crewdson Gilkes	Chris Crewdson was a Director of Gilbert Gilkes and Gordon Ltd for over twenty years. Gilkes delivers innovative single source solutions to small hydropower and high horsepower engine markets all around the world. He will talk about the history of the company, its products, its people and its contribution to Kendal.
Thursday 20th April 19:30	Waterbird – A Replica of UK's first Successful Seaplane	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: IET/PESC Contact: Anne Morris (anne.morris@ietvolunteer.org)	Professor Paul Wrobel	Waterbird took to the sky from Windermere last summer, 101 years after the original first flight of this ground breaking plane from the same water. Paul Wrobel will share the story of the plane and its 13 year development and answer questions on the engineering and project management challenges in this modern world
Saturday 20th May 09:00 to 16:00	Lancashire Science Festival	University of Central Lancashire 24 Fylde Road Preston PR1 7BQ	Organised by: IET Contact: Mike Bell (Michael.Bell@ietvolunteer.org)	Volunteers to man the IET stand wanted!	This is the return of the annual Science Festival which aims to bring STEM subjects to school-age children in a fun way. The event is supported by key industries from across Lancashire who will be present for the event. Saturday is the open day and all are welcome.

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Present Around The Network



Joshua Bolton being presented with the winner's award by Fred Eastham

Present Around The World is the IET's annual opportunity for younger members to show off their presentation skills by giving a ten minute talk on a technology-related subject of their choice. The normal format is for heats at Network, Regional and National levels with the International final being held in a different country every year.

Covid has made it impossible to hold the competition in recent years, and with travel restrictions still in place in some parts of the World, holding the competition in the normal format is still not possible. However, the easing of restrictions in the UK has allowed the competition to be held on a local level.

The Lancashire and Cumbria Network held the local version of PATW under the banner Present Around The Network at UCLAN in Preston during November and was well attended by both contestants and their supporters. The judging was carried out by a panel of Committee Members.

The presentations were all of a high standard, and it was difficult to differentiate between them. Ultimately, the winner was Joshua Bolton with Jianyu Zhao in second place.

With the lifting of travel restrictions around the World it is hoped that PATW will be held in its usual format this year. Our local heats are due to be held at Lancaster University this year and further details can be obtained from any of the Committee.



Jianyu Zhao being presented with the runner-up award by Kevin Burke

Lancashire Science Festival

This event is returning this year with more fun science and technology. There will be many demonstrations presented by the biggest names in technology and engineering from around the county - and the IET will be there too. The event is held over three days, open to the public on the Saturday.

We are looking for volunteers for any of the days but especially the Saturday which is always the busiest day. This is a good opportunity to represent your profession in an enjoyable way and it counts towards your CPD obligation. You can volunteer for whatever time you can spare - even a couple of hours is worthwhile. Further details can be obtained from any member of the Committee.

If you can't volunteer, why not drop in with the family and say hello - the best part of this event is that it is free!

Find out more and register for updates at: <https://lancashiresciencefestival.co.uk/>

New neurodiversity support available for engineers

Did you know there are thought to be around 820,000 neurodiverse engineers working in the UK alone and up to 30% may be dyslexic?

This is why Foothold is proud to launch its new programme of support for neurodiverse engineers, the 'Engineering Neurodiverse Futures programme'.

The programme aims to provide personal and professional support to engineers living with conditions such as Autism, ADHD, Dyslexia, Dyspraxia and Tourette's syndrome as well as those who work with or care for them.

Stuart Redgard, a neurodivergent engineer ambassador for the programme who was only recently diagnosed, explained the programme's value:

"Foothold supported me to receive a diagnosis of autism spectrum disorder in May 2022 at the age of 55. I've often felt very alone during my neurodiversity journey. But knowing that I now have people I can turn to and who won't judge me has made a world of difference."



To find out more about the scheme visit:

www.myfoothold.org/engineering-neurodiverse-futures

Climb Mount Snowdon for Foothold

Join #TeamFoothold and summit the highest mountain in Wales and England!

- Saturday 3rd June 2023
- Reduced rate of £5 for the first 10 sign-ups, £39 pp after that
- £150 minimum sponsorship
- Register at: <https://app.realbuzzregistrations.com/events/raw-adventures/footholdpubcs2023/login/>

To discuss the event with us in more detail before you register, please email fundraising@myfoothold.org

We're here to support your fundraising efforts in any way we can.

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Social Media

Twitter: @ietlancscumbria **LinkedIn:** www.linkedin.com/groups/2179430

Local Network Affiliated Organisations

The Lancashire & Cumbria network covers a vast area with diverse interests. We attempt to include the majority of talks organised by the organisations listed below in our IET and LinkedIn pages; however some events are posted only to the local organisation's events pages.

Below is a selection of the local subgroups and contacts:

Barrow and District Association of Engineers - www.bdae.org.uk

IMechE North-West - <https://nearyou.imeche.org/near-you/UK/North-Western>

Kendal and District Engineering Society -

www.facebook.com/photo/?fbid=584696080327998&set=gm.550713739774041

Professional Engineers South Cumbria - <https://pesc.org.uk>