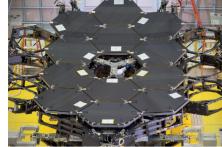
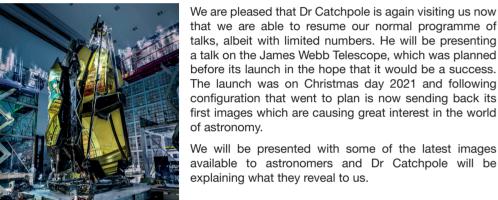
Dr Robin Catchpole The James Webb Telescope

Dr Catchpole has been paying the Network an annual visit for several years although these were of course suspended because of Covid. We were able to arrange for an on-line talk on the Hubble Space Telescope which attracted one of the highest audiences of all the IET presentations. If you missed the talk, you can view it on YouTube at:







that we are able to resume our normal programme of talks, albeit with limited numbers. He will be presenting a talk on the James Webb Telescope, which was planned before its launch in the hope that it would be a success. The launch was on Christmas day 2021 and following configuration that went to plan is now sending back its first images which are causing great interest in the world of astronomy. We will be presented with some of the latest images

available to astronomers and Dr Catchpole will be explaining what they reveal to us.



Related image - Carina Nebula - Credits NASA, ESA, CSA, and STScI

Could you take on our Snowdon at Night fundraising challenge?

Could you take on our Snowdon at Night fundraising challenge?

This October will see some intrepid engineers taking on a Foothold 'mountainous' fundraising challenge, that's just a little bit different.

Our #TeamFoothold thrill-seekers will be putting their endurance Supporting engineers to the test by scaling the dizzving heights of Mount Snowdon, but

with a little catch - it has to be completed at night, with only some torches and starlight to guide the way! And it's all in the name of raising vital funds for Foothold's life-changing support for engineers and their families worldwide.

If you choose to get involved, you'll take part in the experience of a lifetime. Having been introduced to your teammates over a pre-challenge evening meal, you'll begin your trek just before midnight in the town of Llanberis, located in the heart of Snowdonia National Park.

From there you and your fellow trekkers will journey to the summit of Mount Snowdon, supported by fully qualified mountain leaders to help you along the way.

Once you've completed the challenge, you'll finish off with a hearty breakfast whilst witnessing the morning sun rise over the spectacular National Park scenery - what could

If you or anyone you know would like to raise vital funds for engineers in need by taking on this unique physical challenge, scan the QR code or email Foothold's Fundraising & Marketing Officer Gemma at gemma.timmis@myfoothold.org today to find out more.

Get support with writing a will, for free

Planning for your and your family's future by writing a will and is one of the most important things you'll ever do. But you might find the prospect of creating your will quite daunting, or perhaps you're not sure where to start. To help make the process a little easier, we've teamed up with the National Free Wills Network to give you the opportunity to write your will with expert quidance, completely for free.

On average, one in six of the engineers we support is funded by a gift in a Will, and gifts of all sizes can help and make an impact. There's no obligation on your part, but we'd really appreciate it if you would consider supporting us with a gift in your will - it would help us change thousands of engineers' lives for the better.

To request a free will-writing appointment, email Gemma at gemma.timmis@myfoothold.org and we'll reserve you a place. Places are limited and run on a first-come-first-served basis, so do get in touch as soon as possible.

Keep up to date with the latest Foothold news

We'd like to keep in touch with you to share the latest news, updates and stories from the Foothold community, as well as information on events and webinars you might find interesting.

To sign up to receive our monthly e-bulletin, please scan the QR code and complete a contact preference form to give us permission to keep in touch:

Thank you.



Contacts

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Social Media

Twitter: @ietlancscumbria

LinkedIn

https://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.

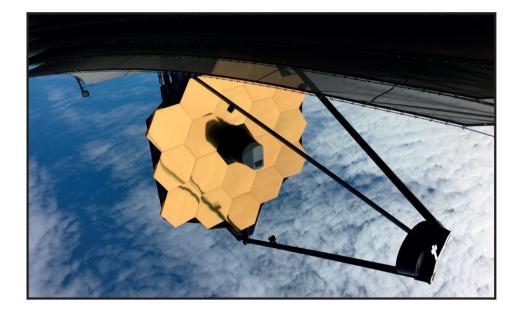
Below is a selection of the local subgroups and contacts:

Barrow and District Association of Engineers - www.bdae.org.uk Kendal and District Engineering Society - www.kendalengineeringsociety.org.uk IMechE North-West - https://nearyou.imeche.org/near-you/UK/North-Western PESC, Professional Engineers South Cumbria - enidjk2@outlook.com

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Lancashire and Cumbria Network



Programme Card

September 2022

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199663 IET 6pp Programme Card.indd

Chairman's Introduction

Dear Lancashire and Cumbria Network members.



This being my first message as the new chair of the Lancashire and Cumbria local network I have to say that I am honoured with being entrusted in taking up this position. I would like to express my thanks, and I am sure that of all the local members, to Fred for his last 3 years as chairman in a tenure that covered one of the most challenging periods in the recent history of the profession, and the nation, which has resulted in fundamental changes to our way of work and how we communicate with each other. Thankfully digital technology allowed us to remain in touch and enabled us to continue with some of our events and even expanded the reach and allowed us to participate across local networks.

However, there is no substitute for in person events which I for one have missed over the last couple of years. We expect future events will be a mix of in-person and virtual which will allow us to reach a larger and more geographically spread audience but to also remain in touch with

our local members offering the opportunity to network with other engineers.

Over the course of my tenure, I am hoping to re-engage with our local educational institutions and help encourage the next generation to see the benefits of choosing a career in a STEM subject. I would like to increase our reach and influence so would like to see more members to get involved with the local communities - so if you can spare the time it would be really appreciated. If you would like to get involved contacts are listed in this programme for each of the local branches.

Although this my first Chairman's Address, sadly it will also be the last printed version of the events calendar mailed to members. After this issue our programme and new bulletins will only be available as an electronic version. This is being driven by the need to reduce our carbon footprint, but we do hope that we continue to reach all of our members.

I hope you enjoy the events on offer and hope to see you at some of them soon.

Retired Members' Committee Chairman

I am delighted to be taking over as the new chairman of the Retired Member's Committee and hope to be able to continue to deliver 4 or 5 interesting talks around the region each year (and of course the popular optional lunches after the talk). I would like to thank Brian Flynn, the outgoing chairman, for the hard work he and the committee have put in for many years. All are welcome to attend these talks and spouses and friend are equally welcome too.

Suzanne Flynn

Mike Foy.

Cover image courtesy of NASA

ering and Technology -ary to May 2022 - Lectu

The second second	Why. W. Ober Hall	Para de la constante de la con	Over the Comment of t	2 - 11 - 2	why did some airframes survive? An optional lunch is available after the talk. Booking is essential for both the talk and lunch - please use the flyer in the mailing or available on the website.
Thursday 20th October 19:30	Why We Shouldn't Trust Software: A Cynics Viewpoint	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: Barrow & District Association of Engineers (BDAE) Contact: Anne Morris (anne.morris@ietvolunteer.org)	Dr Jim Cooling	Dr Jim Cooling a specialist in real-time design and embedded systems will give his views on the subject of software.
Monday 7th November 18:00	Technical Visit - UCLAN Engineering & Innovation Centre	EIC Building Fylde Road, Preston, PR1 2XS	Organised by: IET Contact: Fred Eastham (frederick.eastham@letvolunteer.org)	Kyle Hatchard Business Development Manager, EIC	The Engineering Innovation Centre (EIC) located on the UCLAN Preston campus brings together world-leading research, leading business minds and inspiring teaching. The EIC is housed in a new building located close to Preston city centre. The facilities include fire oil and gas, additive and CNC laser welding research laboratories. There are also development workshops for innovation projects including motor sports, CNC manufacturing.
Wednesday 9th November 19:30	Development of Radio Astronomy	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: PESC Contact: Anne Morris (anne.morris@ietvolunteer.org)	Prof. Anna Scaife Manchester University	Jocelyn Bell's discovery of Pulsars with primitive equipment, led to the start of Radio Astronomy and the building of the Jodrell Bank steerable telescope.
Thursday 17th November 19:15	BDAE Bursary Awards Evening	The Forum 28 Duke Street Barrow-in-Furness LA14 1HH	Organised by: Barrow & District Association of Engineers (BDAE) Contact: Anne Morris (anne.morris@ietvolunteer.org)	Julie Mannell Vice Chancellor of Cumbria University	Barrow & District Association of Engineers are pleased to host the Annual Student Bursary Awards followed by a talk by Julie Mannel, Vice chancellor of Cumbria University. BDAE Bursary Awards celebrate successful local students with a wish to study engineering related subjects by presentation of their prizes which this year will total over £6,000.
Thursday 1st December 11:00	A New Way to Teach Leadership/ Behavioural Change	The Netherwood Hotel and Spa Lindale Road Grange-over-Sands Cumbria LA11 6ET	Organised by: IET Retired Members Contact: Suzanne Flynn (Suzanne.Flynn@ietvolunteer.org)	Dr Ian Corrie	The speaker, Dr lan Corrie, is a former police officer, and now Associate Professor and Principal Lecturer in the Institute of Health at the University of Cumbria. He has a DProf in Transformative Learning. He designs and delivers strategic (and behavioural) change programmes in the Nuclear Engineering, Health, Armed Forces and private sectors. He is an Honorary Colonel with 335 Medical Evacuation Regiment. In his talk he will share the development of a new way to teach leadership/behavioural change using neuroscience and psychology. An optional lunch is available after the talk. Booking is essential for both the talk and lunch - please use the fiyer in the mailing or available on the website.
			Events In Planning - See Website For Details	bsite For Details	
TBA - November	Nuclear Fusion in the North West Challenges and Opportunities talk with subsequent panel discussion	Lancaster University	Organised by: IET Contact: Nathan Leadbetter (events@bay-fusion.co.uk)	Bay Fusion	Whilst many think that nuclear fusion is always "30 years away", there have been a number of groundbreaking improvements recently that now mean fusion is closer than ever, with many expecting net positive power being obtained from fusion in the 2030s. In the north west, there have been a number of recent interesting developments, including the proposal to build a nuclear fusion power station by 2040 in Heysham or Moorside, and groundbreaking work being carried out at Lamcaster University for UKAEA and Tokamak Enegy. This talk by Bay Fusion will cover an introduction to fusion technology, global progress and how the north west is playing its part in this global endeavour.
TBA - November	Present Around The World	TBA - Preston	Organised by: IET Contact: Fred Eastham (frederick.eastham@ietvolunteer.org)	Young Professionals	Present Around The World is a competition for Young Professionals and Students within engineering to develop and showcase presentation skills. Given the restrictions in place in some countries it is still not possible to hold the international heats. However, we will be re-introducing the Local Network element this year. You don't have to be a member of the IET to enter but must be 18-30 years of age and be prepared to Deliver a 10 minute presentation on any engineering or technology related area.



Lancashire & Cumbria Network

A New Way to Teach Leadership/Behavioural Change A talk by Dr Ian Corrie DProf

Thursday 1st December 2022 – 10.30 for 11.00am at The Netherwood Hotel, Grange over Sands, LA11 6ET

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The speaker, Dr Ian Corrie, is a former police officer, and now Associate Professor and Principal Lecturer in the Institute of Health at the University of Cumbria. He has a DProf in Transformative Learning. He designs and delivers strategic (and behavioural) change programmes in the Nuclear Engineering, Health, Armed Forces and private sectors. He is an Honorary Colonel with 335 Medical Evacuation Regiment.

In his talk he will share the development of a new way to teach leadership/behavioural change using neuroscience and psychology. (It is not as easy as you may think!).

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Parking and disabled facilities are provided, and tea/coffee will be available on arrival from 10.30am with the talk commencing at 11.00am. This will be followed by an optional 3-course lunch, costing £20. All members, their partners and guests, are very welcome. Prior booking is essential, whether staying for lunch or not, as space is limited and The Netherwood is always a popular venue. Early application is strongly advised.

Please send your application by November 21st to Brian Flynn, 5 Grange Drive, Euxton, Chorley PR7 6JE Applications will be confirmed by email or post. Any queries to Brian on 01257 272396 on bflynn@btinternet.com

Please reserve places for the talk & lunch/talk only (please delete as applicable) at The Netherwood on Thursday 1st December 2022. The optional lunch is £20 per person.
I enclose a cheque, payable to 'Friends of the IET, Lancs &Cumbria' for £
Name(s)Phone no
Email address, or address, that we can use to send acknowledgement. Please indicate if you wish us to send you directions to The Netherwood.
Please give forenames and surnames of all those applied for, and any special dietary requirements.

Lancashire & Cumbria Network

TSR 2 - Cockup or Conspiracy?

Illustrated talk by Mike Flynn
Thursday 20th October 2022 – 10.30 for 11.00am
at The Crofters, A6 Cabus, Garstang PR3 1PH

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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?

83

Parking and disabled facilities are provided, and tea/coffee will be available on arrival from 10.30 am with the talk commencing at 11.00am. This will be followed by an optional 3-course lunch, costing £20. All members, their partners and guests, are very welcome.

Prior booking is essential, whether staying for lunch or not, as space is limited and The Crofters is always a popular venue. Early application is strongly advised.

Please send your application by 6th October to:
Suzanne Flynn, 36 Seedfield, Staveley, Cumbria LA8 9NJ
Applications will be confirmed by email or post.
Any queries to Suzanne on 01539 822510 or suzannegflynn@gmail.com

Please reserve places for the talk & lunch/talk only (please delete as applicable) at The Crofters, A6 Cabus, Garstang PR3 1PH 2. The optional lunch is £20 per person.
I enclose a cheque, payable to 'Friends of the IET, Lancs & Cumbria' for £
Name(s) Phone no
Email address, or address, that we can use to send acknowledgement. Please indicate if you wish us to send you directions to The Crofters.

Important Information



As part of the IET's move to becoming paper-free, our newsletter mailings will be discontinued this year but will be produced digitally. Should you wish to update your details and marketing preferences, please login to your MyIET account https://www.theiet.org/help/introducing-myiet/

Check your settings in IET EngX to enable emails, and sign up to the daily/ weekly digest to receive an update about events based on your technical interests and your local network.

You can sign up for the digest on the home page once you've logged in. If you notice you're not getting any emails, you may need to add community@ietengx.org to your allowed senders list. Further information and a place to ask questions can be found in the Support and Answers area.

Please note all events are also advertised on our new IET web platform https://engx.theiet.org/local-networks/nwl