



EPSRC Centre for Doctoral Training in Sustainable Electric Propulsion

Tuesday 8th March 2022 – Free event – Join us live in York or online
 Listen to latest PEMD research at The Principal Hotel, York 09.30-15.00
 Keynote: Alan Mantooth, Distinguished Professor at University of Arkansas

The Centre presents its latest research activities covering topics on Power Electronics, Machines and Drives (PEMD). We are honoured to have Prof Alan Mantooth (Distinguished Professor at University of Arkansas) as keynote speaker and from industry we have Mr. Steve Graham, Vice-president TES. The event has various technical presentations as outlined below and includes a pitching event promoting new ideas and business models in green PEMD.

This is a great opportunity to listen to exciting research activities, engage with the Centre, to network and to discuss future research directions with industry and stakeholders.

Morning session

Time

Arrivals and refreshments	09:30
Welcome from the CDT Director and update on the CDT with Q&A	10:00
Keynote presentation with Q&A	
Wide Bandgap Electronics for Sustainable Electric Propulsion Alan Mantooth , Distinguished Professor at University of Arkansas	10:20
Coffee break	11:05
Presentations with Q&A	
Thermal Management in Aerospace Electric Motors Alex Jeffrey, University of Nottingham	11:15
Bearingless Motors Sumaira Ahmed, Newcastle University	11:35

Technical presentation from industry

Design for Excellence 11:55
[Steve Graham](#), Vice President, TES

Afternoon session**Time**

Buffet Lunch 12:15

Presentations with Q&A

High-efficiency, High Gain Boost Converters for Low Power Battery-fed Applications 13:15
Ben Stainthorpe, Newcastle University

Motor Drives and Power Electronics in Aerospace Propulsion Applications 13:35
Rob Walmsley, University of Nottingham

Coffee break 13:55

Innovation event

Students pitch innovative business ideas for green PEMD 14:05
Topic: Recycling Power Electronics

Social/Networking event

Visit to York Railway Museum including buffet 15:00

End of event 18:00

To join either live or online please complete this [booking form](#)

The event is free of charge. Catering will be provided for free. Spaces at York are limited

Please contact Amanda.Lane@newcastle.ac.uk with any queries

Visit our website:

<https://research.ncl.ac.uk/electric-propulsion/>

