



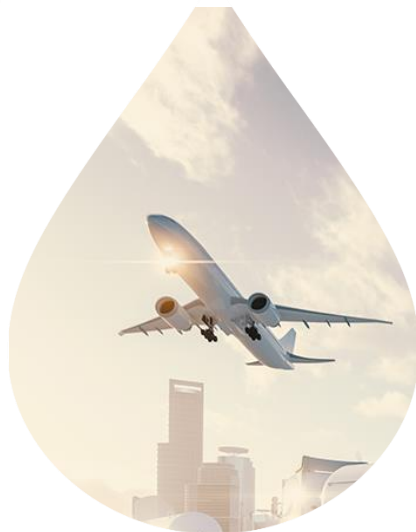
Accelerating the new hydrogen economy in the Midlands

Hydrogen Winter School

Day 1:

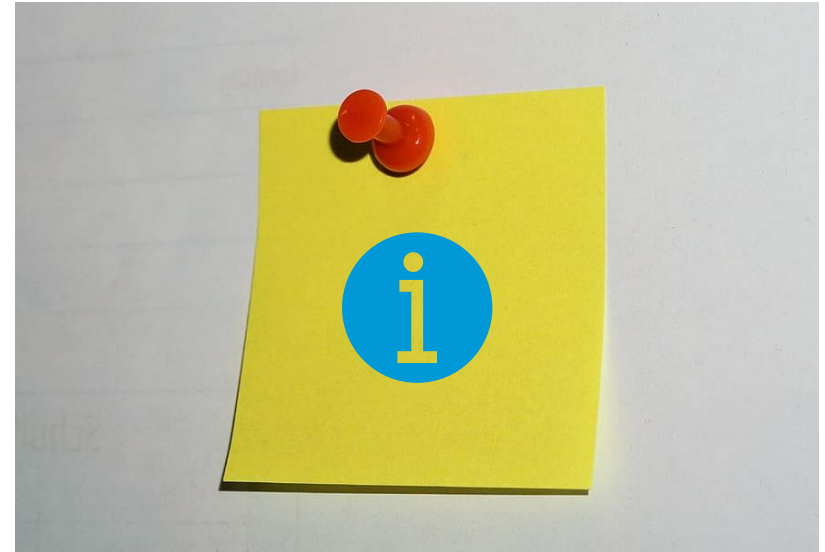
Loughborough University

Dr Kathryn North
Associate Pro Vice-Chancellor
(Climate Change and Net Zero)



Housekeeping

- Fire Alarm
- Fire Exits and Assembly Point
- Toilets
- Mobile phones
Please put on silent, if you need to take or make a call, please leave the room.
- Questions
You will have the opportunity to ask questions after each presentation and there will be a dedicated Q&A before we close.



THE HYDROGEN WORKS



A hub for hydrogen skills, innovation & productivity:
working to deliver Britain's Green Industrial Revolution



[READ MORE](#)

The Hydrogen Works is a strategic consortium led by Loughborough University to create a hydrogen superpower in the East Midlands



We will drive hydrogen skills, innovation & productivity by



Bringing academic experts and industry partners together to deliver cutting-edge hydrogen research and innovation at Loughborough University's state-of-the-art facilities



Providing a skills exchange at the East Midlands Institute of Technology, degree level, doctoral and postdoctoral programmes



Creating a £40m expansion of Loughborough University Science and Enterprise Park to co-locate a skills ecosystem, incubation and manufacturing, and research and innovation

The Hydrogen Works will deliver



A development platform for industry leading to increased productivity and inward investment for the Midlands



Outstanding research and innovation with demonstrable commercial translation and impact

Shared facilities for research, manufacturing and training



A future workforce for the clean energy economy through training and skills

New, good jobs and career progression

Working in partnership, centred on Loughborough University, The Hydrogen Works draws on an existing track record in

Specialist education and skills development

The East Midlands Institute of Technology is a £13m initiative creating the advanced workforce in clean energy for industry's future.

By early 2024 it will have established its operation for the delivery of a green-skills ladder from apprenticeship level 4 qualifications upwards.



FIND OUT MORE

Large-scale research & innovation endeavour

Loughborough University is home to one of the UK's largest Green Hydrogen research groups. We develop and apply the technologies for a greener future.

With significant industry support, we will develop the next generation of leaders in hydrogen through a doctoral training centre.



FIND OUT MORE

Thriving industry partnerships

Loughborough University Science and Enterprise Park companies work at the forefront of hydrogen acceleration and adoption, from its deployment in aviation to the manufacturing of hydrogen fuel cells.

Successful collaborations include Rolls-Royce's recent announcement of a world first for hydrogen combustion in jet engines.



FIND OUT MORE

Hydrogen Winter School



- Day 1 – Loughborough University
- Day 2 – Keele University
- Day 3 – Cranfield University
- Day 4 – University of Nottingham
- Day 5 – University of Birmingham

- Academic and industry presentations on hydrogen research and innovation
- Insight to the HyDEX programme
- Tours of the different demonstrator facilities at each partner university



Welcome to Loughborough University



- Original research and development in hydrogen
- Hydrogen research laboratories and demonstrator facilities on campus
- Green Hydrogen Group
 - Battery electrolyser
 - Seawater electrolyser
 - Hydrogen generation from waste materials/recycling
- Lead partner university in HyDEX Skills
- Sustainable Hydrogen CDT
- £1M Funding from East Midlands Freeport to accelerate green hydrogen as part of new E.Mids Zero Carbon Innovation Centre



Find out more about Loughborough hydrogen capabilities.



Agenda



Morning:

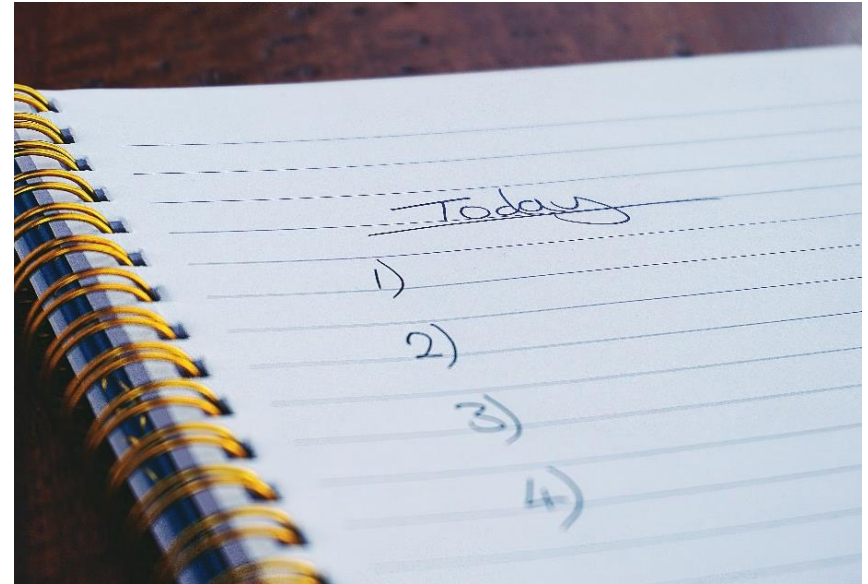
- Battery electrolyzers for green hydrogen production - Dr Elizabeth Ashton
- EDI workshop – Dr Lennie Foster

Afternoon:

- Tour of research and demonstrator facilities
- Reflections and questions

Evening:

- Welcome meal at Burleigh Court Hotel
6:30-8:30pm



Loughborough tour



- Facilities / Labs x5
- Groups x4
- Chaperones
- Timings
- Attire and belongings
- Safety briefings
- Photography
- Questions





REFLECTIONS & QUESTIONS

Evaluation and feedback questionnaire



www.hydex.ac.uk

Thank you



Lead academic partners

