

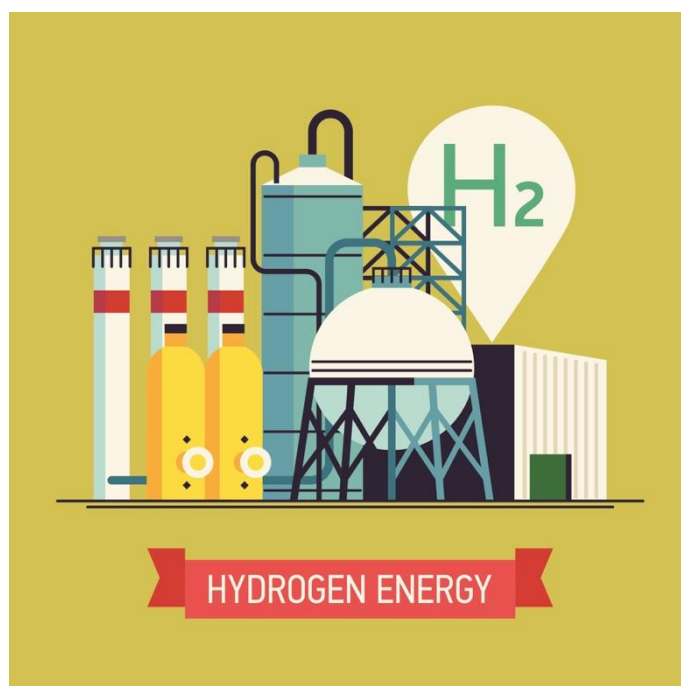
JOINT MEETING OF IMECHE, ICHEME AND IET HAMMERSMITH BRANCH

## Hydrogen Fuel and Approach to Decarbonisation. From Production to Consumption.

A panel of experts on the hydrogen industry will present insights into new and existing technologies for large-scale production, distribution of both heating and transport fuels, and use in mainstream rail transport.

The speakers will cover:

- Large Scale H<sub>2</sub> production by the well-known Steam Methane Reformer (SMR) process through to Auto-Thermal Reforming (ATR), as a means of enabling CO<sub>2</sub> capture.
- Novel methods for producing H<sub>2</sub> though Thermomechanical cycles, making usage of 'Chemical Loop' in which a material is used to store a product or reactant transiently.
- The HyNET project at which a proportion of hydrogen would be injected into the general Natural Gas system – large enough to make a difference to CO<sub>2</sub> emissions, but small enough to avoid the costs associated with wholesale replacement or modification of appliances.
- How the world's first hydrogen train shows whether hydrogen is a realistic option for rail traction within the UK. The implications of hydrogen being an energy vector will also be discussed.



### Thursday 7<sup>th</sup> March 2019

Lecture Theatre, IMechE HQ,  
1 Birdcage Walk, Westminster,  
London SW1H 9JJ

### Speakers

**Dr Vince White**, Senior Research Associate, Process Gases Technology, Air Products.

**Dr Stuart Scott**, Senior Lecturer in Engineering at Cambridge University.

**Andy Brown**, Engineering Director, Progressive Energy Ltd.

**David Shirres**, Editor, Rail Engineer.

18:00 Registration

18:30 Presentations (Air Products, Cambridge University, Progressive Energy Ltd, The Rail Engineer)

19:45 Q&A & Panel Discussion

20:15 Networking and Refreshments

21:00 Close

**REGISTER TO ATTEND:** <http://ievents.icheme.org/booking/Default.aspx?evnt=1202>