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 \( H_2 \) production by the well-known Steam Methane Reformer (SMR) process through to Auto-Thermal Reforming (ATR), as a means of enabling CO\(_2\) capture.

- Novel methods for producing \( H_2 \) 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\(_2\) 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 7th 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