The Institution of Engineering and Technology

Fuel Cell and Hydrogen

From concept to commercialisation

6 November 2012 | Holiday Inn London Bloomsbury, UK

08:30 Registration and refreshments

09:00 Conference Chair's welcome and introduction
Celia Greaves, Energy Generation and Supply KTN.

Policy

09:05 Keynote:
Hydrogen: A clean transport fuel for the UK
- The principles of using hydrogen as a transport fuel
- Refuelling strategies and global developments
- The developing UK infrastructure and the UKH2Mobility initiative

Dr Graham Cooley, Chief Executive Officer, **ITM Power**

09:35 Fuel Cells and Hydrogen in the UK: a story of growth
- A look back at the history of fuel cell and hydrogen developments in the UK
- Where are we now? Current UK activities and context
- What next, including TSB future plans.

Richard Kemp-Harper, Lead technologist Transport and Energy, **Technology Strategy Board**

10:05 The 2012 Global Fuel Cell Industry Review
- Annual industry review tracking global fuel cell shipments
- Year-on-year trends in 2011 and forecasts for the 2012 full-year
- Various fuel cell applications and the reasons for this growth

Marge Ryan, Market Analyst, Fuel Cell Today

10:35 Refreshments and networking opportunity

11:05 Commercialising a fuel cell in the UK
- **A look at the technology**
- **How the company and products have developed**
- **What the future holds**

Ian Williamson, CEO, **AFC Energy plc**

11:30 Fuel cells and hydrogen – an international perspective
- Key players and key programmes
- Progress with H2Mobility activities
- Realisation of the 2015 target for first commercial FCEV?

Dennis Hayter, Vice President, Business Development, **Intelligent Energy**

11:55 Mass Customising Fuel Cells for Diverse Early Markets
- The case for Mass Customisation
- UK strengths in rapid customisation
- Schools, Construction Sites and Bedrooms vs Trains, Planes, and Automobiles

Dr Ben Todd, Managing Director, **Arcola Energy**

12:20 Lunch and networking

13:20 Hydrogen fuel cell hybrid drive in a compact vehicle; the Microcab experience
- Technical integration developments with Horizon fuel cells
- Update on European vehicle trial program
- Commercialisation and expansion plans

John Jostins, Managing Director, **Microcab Industries Ltd**

13:45 **Fuel cell CHP – unsubsidised.**

- The most efficient available generation technology
- the highest air quality – no products of combustion
- highest availability of any system

John Lidderdale, Managing Director**, Logan Energy Ltd**

14:10 **Fuel Cell micro CHP**

- An introduction to micro CHP
- The role of fuel cells in decarbonising the residential heat sector
- Optimising investment in the energy system
- A key technology for existing, hard to treat homes

Jeremy Harrison, Innovation Consultant**, EON Engineering**

14:35 **Refreshments and networking opportunity**

15:00 **Hydrogen fuel cells**

David Wardle, Business Development Director, **Ballard Power Systems**

15:25 **Fuel cells in Aerospace**

- Fuel cells give commercial prospect in aerospace
- The large industries eg EADS support fuel cell concepts
- Demonstration is possible with small aircraft at low cost

Prof Kevin Kendall, Formulation Engineering**, University of Birmingham**

16:50 **Panel Session**

Fuel cell commercialisation: the way forward

- Which H&FC technologies do UK companies have distinctive lead?
- How can we help to accelerate the commercialisation / uptake of these technologies?
- discussing the gaps, and recommendations to close the gaps
- What is the role of strategic partnerships in accelerating H&FC deployment?

Chair: Nigel Holmes, Chief Executive Officer**, The Scottish Hydrogen and Fuel Cell Association (SHFCA)**
Dr Graham Cooley, Chief Executive Officer**, ITM Power**
Richard Kemp-Harper, Lead technologist Transport and Energy**, Technology Strategy Board**
Dennis Hayter, Vice President, Business Development**, Intelligent Energy**
Jeremy Harrison, Innovation Consultant**, EON Engineering**

16:20 **Conference Chair's final remarks and close of event**

16:25 **End of programme**