

# A Two Day Conference

## "Energy Materials: Meeting the Challenge"



To be held at:

Burleigh Court International  
Conference Centre,  
Loughborough University, UK

**9th – 10th October 2008**

Following the launch and publication of the Materials UK Strategic Research Agenda (SRA) for Energy Materials in December 2007, a two day conference will be held on 9-10th October 2008 which will highlight the vital role of materials in meeting the challenges identified in the SRA and in tackling climate change.

The conference is one of a number of steps being taken in implementing the recommendations of the SRA and stimulating and coordinating the materials supply chain. The meeting will cover materials technology developments and future requirements for energy generation (fossil, nuclear and renewables) and supply (transmission, distribution and storage). In particular, it will highlight the strengths, opportunities and state of the art in the UK and the business opportunities being created in this sector.

### Who should attend?

The Conference is looking to engage organisations across the full materials supply chain from research providers to technology end users. We are looking for participants who have a serious interest in developing the UK as a Centre of Excellence in this field and who want to help implement the UK's Energy Materials Strategy. In return, there will be opportunities to listen to, and discuss with, the key funding agencies (EPSRC, TSB, ETI) where future opportunities lie. There will also be opportunity to discuss business development initiatives which can take innovative ideas forward with Venture Capitalists and other fund raising bodies.

This will be a major event sponsored by Materials UK, the Energy Technologies Institute, the Technology Strategy Board and a number of major industrialists from the UK Energy supply chain and the Energy Materials Group of the Institute of Materials, Minerals and Mining.

**ALSTOM**

  
**CORUS**

 **DOOSAN** Doosan Babcock Energy

  
**energy technologies**  
institute

  
**IOM<sup>3</sup>**  
The Institute of Materials, Minerals & Mining

  
**Materials UK**  
Owned by the materials community

  
**NPL**  
National Physical Laboratory

  
**npower**  
  
RWE Group

**Technology Strategy Board**  
Driving Innovation

 **TWI**  
WORLD CENTRE  
FOR MATERIALS  
JOINING TECHNOLOGY

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### Provisional Programme

DAY 1: Thursday 9th October 2008

**9.30-10.30 Registration/coffee**

**10.30 - 12.30 PLENARY SESSION- Stakeholder perspectives**

(Chair, John Kilner, Imperial College)

**Welcome** (Prof Shirley Pearce, Vice Chancellor of Loughborough University)

- Materials UK (Derek Allen, Chairman MatUK Energy Materials Working Group)
- Energy Technologies Institute (David Clarke, CEO, ETI)
- Technology Strategy Board (Alan Hooper, Lead Technologist, Advanced Materials, TSB)
- EPSRC (Alison Wall, Associate Director, Mission Programmes)
- Ministry of Defence (Kevin Pointon, Capability Leader, Power Sources, DSTL)

**12.30 - 13.30 Lunch**

**13.30 - 15.00 FOSSIL ENERGY** (Chair, Colin Small, Rolls-Royce)

- Gas Turbines (Neil Glover, Rolls Royce plc)
- Steam Plant (Rod Vanstone, Alstom Power)
- Carbon Capture and Storage (Richard Hotchkiss, RWE)

**15.00 - 15.30 Tea**

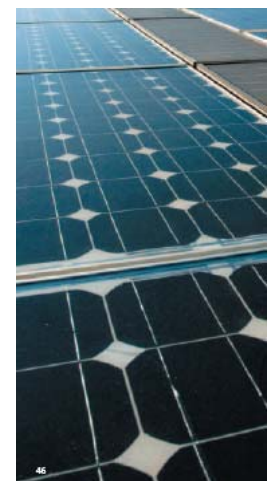
**15.30 - 17.00 RENEWABLES 1** (Chair, John Oakey, Cranfield University)

- Photovoltaics (Stuart Irvine, Optic Technium)
- PEM Fuel Cells (Paul Adcock, Intelligent Energy)
- Fuel Cells (Alan Atkinson, Imperial College)

**17.00 Close**

**18.00 - 19.30 Drinks, reception, poster session and networking**

**19.30 CONFERENCE DINNER**



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DAY 2: Friday 10th October 2008

**7.30 - 8.45 Breakfast Meetings –**  
Raising Funds and Exploiting Materials R&D

**9.00 - 9.30 INTERNATIONAL PERSPECTIVE**  
(Bob Romanosky, US Department of Energy)

**9.30 - 11.00 RENEWABLES 2** (Chair, Chris Bagley, TWI)

- Offshore wind/marine (Speaker from E.On, to be confirmed)
- Hydrogen (Peter Edwards, Oxford University)
- Bioenergy (Len Pinder, E.On)

**11.00 - 11.30 Coffee**

**11.30 - 13.00 TRANSMISSION, DISTRIBUTION AND STORAGE**  
(Chair, Ziad Melhem, Oxford Instruments)

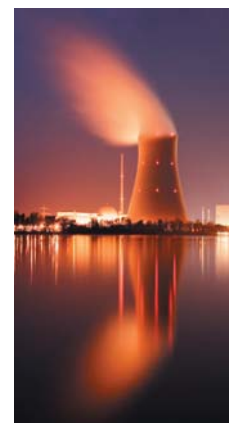
- Transmission (Jennifer Cooper, National Grid, UK)
- Distribution (Andrew Hyde, Manager National and International Collaborative Research Projects, Areva T&D UK Limited)
- Storage (Peter Hall, University of Strathclyde)

**13.00 - 14.00 Lunch**

**14.00 - 15.30 NUCLEAR** (Chair, George Smith, Oxford University)

- Fission materials overview (Paul Howarth, Director, Dalton Institute)
- Fission –waste handling & storage (Bill Lee, Imperial College)
- Fusion (Steve Cowley, Director, JET)

**15.30 - Tea and Close**



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### Registration Details

To register and for full registration details visit <http://energymats.lboro.ac.uk>

The registration package includes:

- 2 day conference fees
- Overnight accommodation for the 9th October 2008 and breakfast on 10th October 2008
- Drinks reception and conference dinner on 9th October 2008
- Lunch on 9th and 10th October 2008
- Refreshments during conference breaks
- Delegates pack

### Posters

If you wish to present a poster please see the Abstract Submission page on the website for details.

The deadline for abstract submission is 31st August 2008.

### Fees & Payment

Early Bird Registration until 31<sup>st</sup> July (**£220**)

Registration from 1st August (**£250**)

For payment details visit <http://energymats.lboro.ac.uk>

### Sponsors

This major event is sponsored by Materials UK, the Energy Technologies Institute, the Technology Strategy Board, major industrialists from the UK Energy supply chain including Alstom Power, Corus, Doosan Babcock Energy, E.On, National Physical Laboratory, Rolls-Royce plc, RWE npower and TWI together with the Energy Materials Group of the Institute of Materials, Minerals and Mining.