

# UK Magnetics Society

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www.ukmagsoc.org

one day seminar

## *Technologies for Renewable Energy*

Wednesday, 9 March 2011

at

ALSTOM Grid, Stafford

Climate change has focussed interest on the generation of electricity from renewable sources. There are many potential sources of renewable energy and even more technologies that have been developed to harness them. The meeting will discuss some of these technologies - wind, wave and tidal. As many of these sources are intermittent, energy storage becomes a critical issue and the meeting will hear about this, too. Another critical issue is how these sources can be efficiently integrated into existing power systems, particularly when they are remote from the loads. High voltage d.c. transmission is emerging as the technology of choice for this, and the meeting will feature a presentation on this topic. Although not strictly "renewable" there has been much interest recently in the contribution of micro-CHP schemes to the mix of renewable and distributed generation, so this subject has been included in the programme.

### PROGRAMME

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| Chairman: Dr Jonathan Sturgess, ALSTOM Grid Research & Technology   | Chairman: Dr John Cullen, Rolls Royce plc  |
| from 0900 REGISTRATION/COFFEE   |  |
| 1000 <b>WELCOME/INTRODUCTION</b>  | 1330 <b><i>Energy Storage in Future Renewable Energy Storage Scenarios - An Assessment of the Role of Magnetics, The Potential for Magnetic Energy Storage</i></b> |
| 1015 <b><i>Paimpol-Bréhat Tidal Turbine Demonstration Farm</i></b><br>Matt Cunningham, Converteam                 | Prof Peter Hall, University of Strathclyde, School of Engineering  |
| 1045 <b><i>Micro-CHP: Unfilled Promise or Next Best Thing?</i></b><br>Dr Chris Horne, E.ON New Build & Technology | 1400 <b><i>C-GEN - An Air Cored Permanent Magnet Generator for Direct Drive Wind Energy Applications</i></b>   |
| 1115 <b><i>Snapper Wave Energy Capture - The Mechanical Challenge</i></b><br>Paul McKeever, Narec                 | Dr Markus Mueller, University of Edinburgh, School of Engineering  |
| 1145 <b><i>Permanent Magnet Solutions in Wind</i></b><br>Mr César Muniz-Casais, ALSTOM Wind, Spain                | 1430 <b><i>The Resurgence of Vertical Axis Wind Turbines for Offshore Wind Farm Developments</i></b>   |
| 1215 LUNCH/POSTER SESSION   | Dr Andrew Shires, Cranfield University, Offshore, Process and Energy Engineering Dept  |
|   | 1500 <b><i>HVDC VSC Converter Topologies for Connecting Renewables to the Grid</i></b>   |
|   | Dr Gopal Mondal, ALSTOM Grid Research & Technology   |
|   | 1530 TEA/COFFEE - END OF SEMINAR   |

**PLEASE COMPLETE AND RETURN TO:**

**Jane Ward, UK Magnetics Society, Grove Business Centre, Grove Technology Park, Wantage, Oxon OX12 9FA**  
**tel: +44 (0)1235 770652 fax: +44 (0)1235 772295 email: jward@ukmagsoc.co.uk www.ukmagsoc.org**

I wish to attend the UK Magnetics Society one-day seminar **Technologies for Renewable Energy**, to be held on Wednesday, 9 March 2011 at ALSTOM Grid, Stafford and enclose remittance to cover technical sessions, seminar documentation, refreshments and lunch (cheques made payable to the **UK Magnetics Society** and drawn on a UK bank).

Payment may also be made by bank transfer: UK Magnetics Society, Barclays Bank plc, 17 Market Place, Wantage, Oxon OX12 8AG, UK, Acct No 50893293, Sort Code No: 20-90-91, IBAN:GB98 BARC 2090 9150 8932 93, SWIFTBIC: BARCGB22. **Please add £10 to cover bank charges if paying by bank transfer from overseas.**

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If you wish to pay by VISA/Mastercard/Delta etc, please complete all sections of the form below.

	FEE*	VAT	TOTAL
<input type="checkbox"/> UKMAG Members	£ 85.00	£17.00	<b>£102.00</b>
<input type="checkbox"/> As above [student]	£ 25.00	£ 5.00	<b>£ 30.00</b>
<input type="checkbox"/> Non-members	£180.00	£36.00	<b>£216.00</b>
<input type="checkbox"/> Non-member students	£ 45.00	£ 9.00	<b>£ 54.00</b>
<input type="checkbox"/> I would like a poster session			

\* 3 delegates get 50% off the third person (cheapest rate applies). For bookings of more than 3 people, please contact Jane Ward

**PLEASE NOTE REFUNDS CANNOT BE MADE FOR CANCELLATIONS RECEIVED 72 HOURS PRIOR TO THE SEMINAR**

**PLEASE REGISTER BY 1 March IF POSSIBLE**

Surname.....		First name.....	
Title (Dr/Mr/Mrsetc) .....		Organisation.....	
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