

# FUTURE RELIABLE RENEWABLE ENERGY CONVERSION SYSTEMS & NETWORKS (FRENS)

UK-CHINA ENERGY COLLABORATION  
3<sup>RD</sup> FLAGSHIP SEMINAR

Kingsley Barrett Room, Calman Learning Centre,  
Science Site, Durham University



September 2<sup>nd</sup>-5<sup>th</sup>, 2011

## AGENDA

**Day 1- Renewable Energy Conversion Reliability  
Industrial Partners & China Academic Partners  
Friday, 2<sup>nd</sup> September 2011  
9:00 – 17:20**

**Chairman:** Prof Peter Tavner (Durham University)

<b>9:00 – 9:30</b>	Coffee reception
<b>9:30 – 9:40</b>	<b>Introduction by Chairman</b> Prof Peter Tavner (Durham University)
<b>9:40 – 9:50</b>	<b>Welcome from PVC Engineering and Sciences of Durham University</b> Prof Andrew Deeks (Durham University)
<b>9:50 – 10:15</b>	<b>Keynotes: Wind Technologies – Siemens's Vision</b> Rodney Jones (Siemens Wind Power)
<b>10:15 – 10:40</b>	<b>Keynotes: Requirement for Reliability – Developer's View</b> Lee Holdsworth (Renewable Energy Systems)
<b>10:40 – 11:00</b>	<i>Coffee break</i>
<b>11:00 – 11:25</b>	<b>Keynotes: Renewable Power in China</b> Prof Xiaoming Yuan (Huazhong University of Science and Technology, formerly Chief Engineer of GE-Shanghai)
<b>11:25 – 11:50</b>	<b>Keynotes: Wind Studies at Aalborg Reliability Centre</b> Prof Stig Munk-Nielsen (Aalborg University, Denmark)
<b>11:50 – 12:15</b>	<b>Keynotes: Smart Grids</b> Prof Phil Taylor (Durham Energy Institute)
<b>12:15 – 12:45</b>	<i>Discussions and Chairman's Remarks</i>
<b>13:00 – 14:00</b>	<i>Lunch</i>
<b>14:00 – 14:20 (15 min+5 min)</b>	<b>Presentation from Tsinghua University</b>
<b>14:20 – 14:40 (15 min+5 min)</b>	<b>Presentation 1 from Newcastle University</b>
<b>14:40 – 15:00 (15 min+5 min)</b>	<b>Presentation from CAS</b>
<b>15:00 – 15:20 (15 min+5 min)</b>	<b>Presentation from Edinburgh University</b>

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**15:20 – 15:40**      **Presentation 1 from Zhejiang University**  
**(15 min+5 min)**

**15:40 – 16:00**      *Coffee break*

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**16:00 – 16:20**      **Presentation from Strathclyde University**  
**(15 min+5 min)**      Max Parker

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**16:20 – 16:40**      **Presentation from Sichuan University**  
**(15 min+5 min)**

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**16:40 – 17:00**      **Presentation 1 from Durham University**  
**(15 min+5 min)**

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**17:00 – 17:20**      **Presentation 2 from Zhejiang University**

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**19:00 – 22:30**      **Dinner at Lakeside Dining Room in Van Mildert College**



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## Saturday, 3<sup>rd</sup>, September 2011

**Day trip to Lake Windermere in Cumbria.**

**Evening (20:00-22:00): A workshop on future collaborative projects, Chair: Professor Tongguang Wang (973 WindPower Chair)**

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## Sunday, 4<sup>th</sup>, September 2011

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**There will be private transport to Newcastle Metro Centre (shopping) or to South Shields seaside;**

**FRENS Management Meeting on Sunday Evening (Time to be defined), Chair: Professor Peter Tavner**

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## AGENDA

**Day 2- Consortium Progress on Reliability  
China & UK Academic Partners  
Monday, 5<sup>th</sup> September, 2011  
8:45 – 13:00**

**Chairman:** Prof Luowei Zhou (Chongqing University)

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<b>8:45 – 8:55</b>	<b>Introduction of the day</b>
<b>8:55 – 9:15</b>	<b>Presentation from Nottingham University</b>
<b>9:15 – 9:35</b>	<b>Presentation 2 from Nanjing University of Aeronautics and Astronautics</b> PhD student: Long Wang
<b>9:35 – 9:55</b>	<b>Presentation from Aalborg University</b> PhD student: Ke Ma
<b>9:55 – 10:20</b>	<b>Keynotes: Challenges of Marine Renewables</b> Professor Ed Spooner (EM Renewables)
<b>10:20 – 10:35</b>	<i>Coffee break</i>
<b>10:35 – 10:55</b>	<b>Presentation from Warwick University</b>
<b>10:55 – 11:15</b>	<b>Presentation 2 from Newcastle University</b>
<b>11:15 – 11:35</b>	<b>Presentation from Chongqing University</b> PhD student: Shengqi Zhou
<b>11:35 – 11:55</b>	<b>Presentation 2 from Durham University</b>
<b>11:55 – 12:10</b>	<i>Coffee break</i>
<b>12:10 – 12:35</b>	<b>Keynotes: Mechanisms of Device Failure and Design for Reliability</b> Prof Sheng Liu (Wuhan Optoelectronics State Laboratory)

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