

## Nuclear Energy in the 21<sup>st</sup> Century

Date 12 and 13 March 2012

Organised by Professor Roger Cashmore FRS, Professor Robin Grimes and Dame Sue Ion FREng

*Draft programme – correct as of 7 March 2012 – subject to change*

DAY 1				DAY 2			
SESSION 1 Chair- Sir John Beddington FRS		SESSION 2 Chair-David MacKay FRS		SESSION 3 Chair-Lord Oxburgh FRS		SESSION 4 Chair-Pallab Ghosh	
09.00	Welcome by Julie Maxton & lead organiser						
09.05	<b>Ian Emsley</b> Current nuclear landscape and uranium resource	13.30	<b>Duncan Forbes</b> The challenge for SMR	09.00	<b>Alex Larzelere</b> The Role of advanced modeling and simulation for nuclear reactor design and operation	13.30	<b>Wang Jun</b> AP1000 Projects Construction Status and the Innovative Development of Nuclear Technology in China
09.30	<b>Nick Pidgeon</b> Public perceptions of nuclear power in Britain and implications for policy	14.00	<b>Christophe Behar</b> Reprocessing and recycling: from LWR fuels to fast reactors fuels	09.30	<b>Peter Storey</b> Role of research in underpinning nuclear regulation and safety into the future	14.00	<b>Il Soon Hwang</b> Multi-National approach to safety, security, safeguards and sustainability of nuclear energy
09.50	<b>Gerry Thomas</b> The Health effects of exposure to radiation from nuclear power plants – facts versus fantasy	14.30	<b>Discussion</b>	10.00	<b>Discussion</b>	14.30	<b>Kevin Hesketh</b> Future metrics for non-proliferation, security and safeguards
10.10	<b>Discussion</b>	15.00	<b>Tea</b>	10.30	<b>Coffee</b>	15.00	<b>Discussion</b>
10.30	<b>Coffee</b>						
11.00	<b>Jussi Heinonen</b> Current approach to waste and disposal	15.30	<b>Srikumar Banerjee</b> Alternate fuel cycle	11.00	<b>Lars Hallstadius</b> Cladding for high performance light water reactor fuel	15.30	<b>Tea</b>
11.30	<b>Richard Stainsby</b> Status of research for Generation IV systems	16.00	<b>Mike Weightman FREng</b> Regulating the nuclear industry in the 21st Century	11.30	<b>Bill Lee</b> Understanding wasteform evolution during storage and disposal	16.00	<b>Steven Cowley</b> Fusion and fusion/fission
12.00	<b>Discussion</b>	16.30	<b>Discussion</b>	12.00	<b>Discussion</b>	16.30	<b>Geoffrey Boulton FRS</b> Summary
12.30	<b>LUNCH</b>	17.00	<b>CLOSE</b>	12.30	<b>LUNCH</b>	17.00	<b>CLOSE</b>