

Material efficiency: providing material services with less material production

30 and 31 January 2012

Organised by Dr Julian Allwood, Professor Michael Ashby FRS, Professor Timothy Gutowski and Professor Ernst Worrell

DAY 1				DAY 2			
SESSION 1 Lord Oxburgh FRS		SESSION 2 Professor Roland Clift		SESSION 3 Professor Michael Ashby FRS		SESSION 4 Professor Ernst Worrell	
09.00	Welcome by Julie Maxton & Julian Allwood						
09.05	David Mackay FRS Could energy intensive industries be powered by carbon free electricity?	13.30	Ernst Worrell Material efficiency within ecological economics	09.00	John Urry Social and policy implications of reduced material consumption	13.30	Sir Tony Wrigley FBA Energy and the English industrial revolution
09.30	Discussion	14.00	Discussion	09.30	Discussion	14.00	Discussion
09.45	Tim Gutowski Constraints on the future material system: availability, substitution and thermodynamics	14.15	Jacqueline Cramer Material efficiency: integrating science and practice	09.45	Tim Jackson Lifestyles, values and material consumption	14.15	Tanya Harrod Material efficiency in the craft industries
10.15	Discussion	14.45	Discussion	10.15	Discussion	14.45	Discussion
10.30	Coffee	15.00	Tea	10.30	Coffee	15.00	Tea
11.00	Petri Vasara Constraints and opportunities in future use of biomass as a material	15.30	Cameron Hepburn Material efficiency in economic and climate policy	11.00	Bruce Hannon The politics of material efficiency	15.30	Julian Allwood Material efficiency for five key materials
11.30	Discussion	16.00	Discussion	11.30	Discussion	16.00	Discussion
11.45	Robert Ayres Material efficiency: rare and critical metals	16.15	Reid Lifset Material efficiency in a multi-material world	11.45	Walter Stahel Policy for an efficient use of resources	16.15	Future directions of material efficiency
12.15	Discussion	16.45	Discussion	12.15	Discussion	17.00	CLOSE
12.30	LUNCH	17.00	CLOSE	12.30	LUNCH		

Draft programme – correct as of 7 December 2011 – subject to change