



E-Futures

E-Futures Autumn Conference Agenda *Challenges to a Sustainable Energy Future*



The
University
Of
Sheffield.

15th September 2015
D05 Pam Liversidge Building, Sheffield

09:00

Coffee & Registration

09:30 Welcome: Prof. Geraint Jewell

09:35 Prof. David Stone- Grid connected electric storage

10:10 Geospatial Visualization of Smart Data to benefit LV electricity network operation, Goudarz Poursharif

10:25 Prediction of energy consumption in a supermarket using MET office data, Martin Braun

10:40 Demand Side Management and Disempowerment, Colin Whittle

10:55 London St Pancras to Sheffield in under 10 ms - Railway energy optimisation using GPU accelerated simulation, Jonathan Goodwin

11:10 **Coffee Break**

11:30 In-situ x-ray scattering studies of the crystallisation of organometal halide perovskites for solar cells, Alex Barrows

12:00 Fluidisation using high frequency pulsed flows, Emma Ireland

12:15 Road lighting for pedestrians: Are we wasting energy? Jim Uttley

12:30 Flash poster presentation

13:00 **Lunch**

14:00 Mr. Andrew Myers, Magnomatics

14:30 The role of forest trees and their mycorrhizal fungi in carbonate weathering and phosphorus biogeochemical cycling, Rachel Thorley

14:45 Simulating Runoff From the Slopes of Everest, James Douglas

15:00 Metallic polymers and chitosan in sedimentation process, Supatchalee Sophonthammaphat

15:15 **Coffee break**

15:35 Using qualitative methods in an exotic case study location, Jacob Gower

15:50 Lock-ins, lock-outs and external challenges: low carbon energy in Georgia, Timinyo Owei

16:05 The breathing motions of an Indium based MOF, and it's effects on CO₂ uptake , Elliot Carrington

16:30 **Close**

Cohort 3 poster presentations

Alex Buckman	Some like it hot
Nicola Lazenby	The cool potential beneath your feet
Rob Raine	Sheffield's low-carbon heat network and its energy storage potential
Aimie Hope	Little green lies: compensatory beliefs about environmentally significant behaviours
Ben Crozier	Main group homoleptic tetrazolato complexes
Richard Smith	Influence of photosynthesis on carbon and lipid metabolism in microalgae
Donald Willey	Small scale helical flow in fluidised bed
Qasid Ahmad	Use of Concentrated Radiation for Solar Powered Glass Production: Scale-up Experiments
Liam Chisman	Valve Recession in Homogeneous Charge Compression Ignition Engines
John Bradley	Moveable high-Q semiconductor nanowire cavity in a photonic crystal slot waveguide for low-threshold lasing
Rory Campbell	Nitrogen-Rich Tin Complexes as Potential Replacements for Lead(II) Azide
Vi Nguyen	Biocompatible support materials to optimise biogas production
Christopher Hepworth	Reducing stomatal density In barley.

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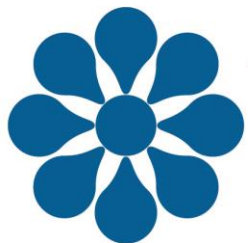
E-Futures

About E-Futures

E-Futures is a Doctoral Training Centre training a new generation of scientists and engineers to address the challenges inherent in making the transition to a sustainable energy future. Students receive a formal programme of taught material to develop and enhance their technical interdisciplinary knowledge and broaden their set of skills, alongside developing individual specialisations through research projects.

E-Futures is part of a national network of energy Doctoral Training Centres

To register for the conference, please email neil.lowrie@sheffield.ac.uk , tel. 0114 222 5506



Energy CDT Network

