

UKES2016 Poster List

Theme	Code	Presenter Name	Title
Demonstration Projects	DEM01	Andy Edwards	Project ERIC (Energy Resources for Integrated Communities)
Demonstration Projects	DEM02	Tim Gardhouse	On the process to commercialisation of Liquid Air Energy Storage
Demonstration Projects	DEM03	Andrew Smallbone	The world's first grid-scale demonstration of PHES Energy Storage
Electrochemical Energy Storage	EES01	James Dibden	A Quantitative Tool to Predict the Phase Composition of Lithium-S
Electrochemical Energy Storage	EES02	James T. Frith	Lithium-oxygen batteries with redox mediators
Electrochemical Energy Storage	EES03	Qianye Huang	Silicon Anodes Incorporating Few-layer Graphene (FLG) for Improv
Electrochemical Energy Storage	EES04	Ronny Genieser	Investigations into Resistance Changes & Characterisation of NMC
Electrochemical Energy Storage	EES05	Serena Gallanti	The Electrodeposition of Sn and Si-Based Amorphous Films for Li a
Electrochemical Energy Storage	EES06	Adeline Loh	Improved manganese dioxide catalytic performance through optim
Electrochemical Energy Storage	EES07	Arnaud Gigot	Graphene-Dichalcogenide-based electrodes for supercapacitors
Electrochemical Energy Storage	EES08	Beth Johnston	Microwave synthesis and characterisation of nanostructured catho
Electrochemical Energy Storage	EES09	Carmen Salcianu	LOW COST SODIUM-ION BATTERIES PROJECT (LOCO-NIBs)
Electrochemical Energy Storage	EES10	Chris Phillips	A comparison of carbon-based anodes for sodium batteries
Electrochemical Energy Storage	EES11	Dongwei Du	Preparation of Hybrid Cu ₂ O/CuMoO ₄ Nanosheets Electrode for Hi
Electrochemical Energy Storage	EES12	Filipe Braga	Stable carbon cathodes for potassium-oxygen batteries
Electrochemical Energy Storage	EES13	Francesco Mazzali	Cobalt Hexacyanoferrates as cathodes materials for Na-ion batteri
Electrochemical Energy Storage	EES14	Hany El-Shinawi	Low-temperature densification of Al-doped Li ₇ La ₃ Zr ₂ O ₁₂ : A reliab
Electrochemical Energy Storage	EES15	James Somerville	High Voltage Mg-Doped Na _{0.67} Ni _{0.3-x} Mg _x Mn _{0.7} O ₂ (x = 0.05, 0.1
Electrochemical Energy Storage	EES16	Jose R. Gonzalez Jimenez	Molybdenum disulphide as a sodium-ion battery anode material: I
Electrochemical Energy Storage	EES17	Joshua Treacher	Sodium-ion batteries: Materials to prototype
Electrochemical Energy Storage	EES18	Laurence Middlemiss	Sodium-ion batteries and their performance optimisation
Electrochemical Energy Storage	EES19	Marcin Orzech	Surprising Behaviour of Bismuth as Anode Material for Sodium Ion
Electrochemical Energy Storage	EES20	Max Naylor Marlow	3D Printed Structural Pseudocapacitors
Electrochemical Energy Storage	EES21	Miss Josefa Vidal Laveda	Microwave synthesis of nanostructured electrodes for Li-ion batte
Electrochemical Energy Storage	EES22	Pelin Yilmaz	BIOMASS-DERIVED LOW COST NEGATIVE ELECTRODES IN Na-ION E
Electrochemical Energy Storage	EES23	Shahin Nikman	The effect of hydroxide formation on inhibition: A comparison of s
Electrochemical Energy Storage	EES24	Stewart Dickson	Development of magnesium cell chemistry for use in next generat
Electrochemical Energy Storage	EES25	Tao Liu	Mechanistic insights into the challenges of cycling a nonaqueous N
Electrochemical Energy Storage	EES26	Xiangwen Gao	Promoting solution phase discharge in Li-O ₂ batteries
Flow batteries	FB01	Catalina Pino	Unit cell model of a Regenerative Hydrogen-Vanadium Fuel Cell
Flow batteries	FB02	David Trudgeon	Zinc-Nickel Redox Flow Battery: Electrolyte Additives for Zinc Morp

Flow batteries	FB03	Declan Bryans	Application of carbon felts as a positive electrode material in the F
Flow batteries	FB04	Yuhua XIA	Polysulphide-air redox flow battery - A novel solution for grid scale
Hydrogen for Energy Storage	HY01	Stephen Carr	Analysis of a hydrogen refuelling station operating in the electricit
Hydrogen for Energy Storage	HY02	Tabbi Wilberforce	Modification of Flow Plate Design in Fuel Cell Using Ansys Simulat
Integration of Storage into Energy Networks	INT01	Andreas Georgakarakos	Smart Grid Optimised Buildings with Energy Storage
Integration of Storage into Energy Networks	INT02	Angeliki Loukatou	OPTIMAL ENERGY STORAGE TO BALANCE AND TRADE INTERMITTE
Integration of Storage into Energy Networks	INT03	Ilaria Di Fresco	Thermal storage for managing excess wind-generated electricity
Integration of Storage into Energy Networks	INT04	Jorn Reniers	Offering multiple grid services in parallel while minimising battery
Integration of Storage into Energy Networks	INT05	Neal Wade	Novel storage technology physical modelling
Integration of Storage into Energy Networks	INT06	Yara Khawaja	Energy Storage Sizing for Matching Demand and Generation using
Integration of Storage into Energy Networks	INT07	Antonio Luque	Use of Energy Storage in Port Terminals
Policy and Economics of Storage in Energy Systems	POL01	Andrew Pimm	The value of electricity storage to large enterprises
Policy and Economics of Storage in Energy Systems	POL02	Dolores Astudillo	Life Cycle Assessment of new batteries for large-scale energy stora
Policy and Economics of Storage in Energy Systems	POL03	Dr Christopher Jones	Multi-energY storage-Social, TechnO-economic, Regulatory and Er
Policy and Economics of Storage in Energy Systems	POL04	Mauricio Riveros	Carbon Arbitrage with Electrical Energy Storage
Policy and Economics of Storage in Energy Systems	POL05	Oliver Schmidt	Cost projections for electrical energy storage
Policy and Economics of Storage in Energy Systems	POL06	Rosemary Whitbread	Safe Innovation in Energy Storage Systems – underpinning Risk Ma
Policy and Economics of Storage in Energy Systems	POL07	Yan Hong	An economic feasibility study of liquid air energy storage technolo
Policy and Economics of Storage in Energy Systems	POL08	Cássio Borrás Santos	Energy Storage in Brazil : Key Actors - Regulatory Issues - Econom
Power Management and Control	PMC01	Yongmann Chung	Electro-chemical modelling of capacity fade of a multi-cell lithium-
Power Management and Control	PMC02	Lim Khim Yan	Practical Enhanced Frequency Response in the Laboratory
Storage for Transport	TRA01	Stefanie Zekoll	A novel ceramic-polymer composite electrolyte for lithium batteri
Thermal, Mechanical and Thermochemical Energy Storage	TM01	Andrea Vecchi	Cryogenic packed bed thermal storage for air liquefaction – identit
Thermal, Mechanical and Thermochemical Energy Storage	TM02	Haobai Xue	A Comparative Study of Compressed Air Energy Storage (CAES) and
Thermal, Mechanical and Thermochemical Energy Storage	TM03	Helena Navarro	Impact of Nanoparticles on Nitrate based High Temperature Heat
Thermal, Mechanical and Thermochemical Energy Storage	TM04	Julien Mouli-Castillo	The Case for Compressed Air Energy Storage using Porous Rock in
Thermal, Mechanical and Thermochemical Storage	TM05	Geng Qiao	Investigation of Corrosion effect and protection method of molter
Thermal, Mechanical and Thermochemical Storage	TM06	Robert J Sutton	The hydration and dehydration of chemical salts for the thermoch
Thermal, Mechanical and Thermochemical Storage	TM07	Audrius Bagdanavicius	A comparison study of thermo-mechanical energy storage system:
Thermal, Mechanical and Thermochemical Storage	TM08	Andrew Smallbone	Heat transfer control within layered high-temperature thermal stc
Thermal, Mechanical and Thermochemical Storage	TM09	Andrew Smallbone	A highly efficient cryogenic layered thermal store
Thermal, Mechanical and Thermochemical Storage	TM10	Andrew Smallbone	A reversible heat pump/engine for multi-vector energy conversion