



THE FUTURE & VESI SEMINAR

Friday 18th March 2016

The Shard (17th floor), 32 London Bridge St, London SE1 9SG

TIME	TOPIC	SPEAKER
10:30-11:00	Arrival and refreshments	
11:00-11:30	Welcome and keynote	Robert Llewellyn
11:30-11:35	Introduction + Overview of Developing FUTURE Vehicles Project	Prof Rob Thring
11:35-11:40	Introduction to components' degradation in EV	Dr Stefano Longo
11:40-11:55	Electrochemical energy storage	Dr Gregory Offer
11:55-12:10	Electrochemical energy conversion	Nick McCarthy
12:10-12:25	Power Electronics and Transmission	Dr Xin Zhang
12:25-12:40	Electrical Machines	Dr Nuwantha Fernando and Peter Armstrong
12:40-12:50	Reduced Order Modelling	Prof Keith Burnham
12:50-13:00	Control Optimisation and Diagnosis	Dr Stefano Longo
13:00-14:30	Buffet Lunch in foyer (combined with Poster Session)	
14:30-14:40	Introduction and Overview of VESI	Prof Phil Mawby
14:40-15:00	Demonstrator 1: Construction of an Integrated Non-Rare Earth Permanent Magnet Motor	Prof Patrick Luk + Prof Volker Pickert
15:00-15:15	Demonstrator 2: Thermal and Electrical Integration of Power Conversion Systems	Prof Phil Mellor + Prof Andrew Forsyth
15:15-15:35	Demonstrator 2: High power density power electronic building block for automotive applications	Prof Mark Johnson + Dr Lee Empringham
15:35-15:55	Demonstrator 3: Integrated on-board battery charging using multiphase machines and power electronics	Prof Emil Levi
15:55-16:00	Closing remarks	Rob Thring + Phil Mawby
16:00-17:00	Drinks and networking in foyer	