

**5<sup>th</sup> Annual HVDC PhD Colloquium, Imperial College London, Wednesday 9 – Friday 11 July 2014**

Provisional programme

<b>Time</b>	<b>Wednesday 9</b>	<b>Thursday 10</b>	<b>Friday 11</b>
09:00		Invited talk	Intro
09:30			Energy Storage
10:00		Invited talk	Energy Storage
10:30	Registration		Energy Storage
11:00		Coffee Break	Coffee Break
11:15	Intro	Interaction AC-DC	Energy Storage
11:45	Interaction AC-DC	Interaction AC-DC	Energy Storage
12:15	Interaction AC-DC	Interaction AC-DC	Energy Storage
12:45	Lunch	Lunch	Lunch
13:30	Lab tours	Lab tours	Lab tours
14:00	Wind	HVDC technology	Closure
14:30	Interaction AC-DC	HVDC technology	
15:00	Interaction AC-DC	HVDC technology	
15:30	Coffee Break	Coffee Break	
15:45	HVDC technology	Interaction AC-DC	
16:15	HVDC technology	Interaction AC-DC	
16:45	HVDC technology	Interaction AC-DC	
17:15	Lab tours		

Provisional programme of presentations (with MEDOW fellows highlighted)

<b>Topic</b>	<b>Title</b>	<b>Author</b>	<b>Institution</b>
Wind farms	"Design, operation and control of novel electrical concepts for offshore wind power plants"	Mikel de Prada	IREC
Interaction AC-DC	"Impact of the AC system strength on VSCs"	Alejandro Bayo Salas	KUL
Interaction AC-DC	"The Future of Offshore HVDC Grids in the UK: Big Challenge, Big Opportunity"	Yousef Pipelzadeh	ICL
Interaction AC-DC	"Sensitivity of fault voltages and currents in HVDC grids towards fault and grid parameters"	Willem Leterme	KUL
Interaction AC-DC	"OPF tool for mixed HVAC and HVDC systems for grid integration of large wind power plants"	Monica Aragues	UPC
Interaction AC-DC	"Frequency Response from Offshore Multi-terminal VSC-HVDC (MTDC) Scheme"	Daniel Adeuyi	Cardiff
Interaction AC-DC	"Influence of Frequency Droop Supplementary Control on Disturbance Propagation through VSC HVDC Links"	Claudia Spallarossa	ICL
Interaction AC-DC	"Coordinated control of HVDC links in transmission systems"	Robert Eriksson	DTU
Interaction AC-DC	"AC Network support using large offshore wind farms connected through multiterminal HVDC system"	Jayachandra N. Sakamuri	DTU
Interaction AC-DC	"Investigation of Power Oscillation Damping service by offshore wind power plants connected via Volt-age Source Converter High Volt-age Direct Current link"	Spyridon Goumalatsos	DTU
Interaction AC-DC	"Automatic dispatch following a fault in an Offshore AC Hub"	Jonathan Stevens	Cardiff
Interaction AC-DC	"Operation of HVDC power systems"	Robert Renners	KUL
HVDC technology	"Current Source Converters for HVDC links"	Joan Sau	UPC
HVDC technology	"Series Power Flow Controllers for DC Grids"	Senthooran Balasubramaniam	Cardiff
HVDC technology	"Three-terminal LCC-HVDC"	Chuanyue Li	Cardiff
HVDC technology	"MMC DC-DC"	Xiaotian Zhang	ICL

HVDC technology	"Power Range Extension Techniques and Limitations for the Provision of Emergency Overload Capacity in Modular Multilevel Converters"	Paul Judge	ICL
HVDC technology	"A DC/DC Converter Suitable for HVDC Applications with Large Step-ratios"	Thomas Lüth	ICL
HVDC technology	"Reduced Dynamic Model of the Alternate Arm Converter"	Caitriona Sheridan	ICL
Energy Storage	"Stationary Electricity Storage Plants in Europe: Current Status and New Developments"	Tom Brijs	KUL
Energy Storage	"Operational aspects of battery energy storage systems"	Frederik Geth	KUL
Energy Storage	"Distributed Energy Storage Systems in Distribution Networks: Hierarchical control to perform multiple services"	Ismael Miranda	Porto
Energy Storage	"State of Charge Balancing Control of Grid-Scale Energy Storage Systems using Cascaded H-Bridge Multilevel Inverter"	Chia-Ai Ooi	Cardiff
Energy Storage	"Power system support from energy storage (pending to be confirmed)"	Marko Aunedi	ICL
Energy Storage	"Power converters for energy storage systems"	Eduardo Prieto-Araujo	UPC

The above information has been provided to Cardiff University by the organiser of the Colloquium. All information may be altered and is subject to final verification by the organiser.