

The International Flow Battery Forum- 2011

CONFERENCE PROGRAMME

Wednesday 4 May

Time	Speaker	Affiliation	Title
0900	Anthony Price	IFBF	Introduction
Session Chair: Anthony Price			
0910	David Macleman	R & D Manager, SSE Power Distribution	Energy storage opportunities in Scotland
0930	Maria Skyllas-Kazakos	University of New South Wales	Opportunities for flow battery development
0950	Karen Waldrip	Sandia National Labs	US DOE Energy Storage Systems Program
1010	Gary Yang	Pacific Northwest National Laboratory	Advanced Redox Flow Battery R&D at PNNL
1040	Questions & Discussion		
1050	REFRESHMENTS		
Session Chair: David Hodgson			
1120	Alistair Steele	Scottish and Southern Energy	Overview of current and planned energy storage portfolio of projects
1150	Bjorn Jonshagen	ZBB Energy Corporation	Report on the ZBB/CSIRO building energy storage project
1220	Jens Noack	Fraunhofer Institute for Chemical Technology	A Comparison of Vanadium/Oxygen Fuel Cells and Vanadium Redox Flow Batteries
1240	Questions & Discussion		
1250	LUNCH		
Session Chair: Martha Schreiber			
1400	L Berlouis	University of Strathclyde	An investigation of the kinetics of the Ce ³⁺ / ⁴⁺ reaction in the zinc-cerium redox flow cell
1420	C Ponce de Leon	University of Southampton	Characterization of a divided and undivided zinc-cerium flow battery
1440	Richard Wills	University of Southampton	The Soluble Lead Acid Flow Battery
1500	Huamin Zhang	Dalian Institute of Chemical Physics	Progress on Ion Exchange Membrane for VRB and Experience of Off-grid PV-VRB Power Supply System Design
1510	Questions & Discussion		
1520	REFRESHMENTS		
Session Chair: Rick Winter			
1550	Martha Schreiber	Cellstrom GmbH	Performance data, advantages and disadvantages of vanadium flow batteries
1610	Hugh Sharman, Simon Gray	Prudent Energy, Convertteam	Report on the commissioning of Prudent Energy's 500 kW, 2000 kWh battery and recent projects
1615	Martin Dennenmoser	Fraunhofer Institute for Chemical Technology	Design, characterisation and operation strategies of 1 kW all-vanadium redox flow battery
1620	Chris Winter	Redflow	Commercialisation of a zinc bromine system
1650	Question & Discussion		
1700	CLOSE		

Thursday 5 May

Time	Speaker	Affiliation	Title
Session Chair: Karen Waldrip			
0900	Lawrence H Thaller		Basic Design Principles and Test Procedures for Redox Flow Batteries
0920	Ruediger Schweiss	SGL Carbon	Recent Insights into Carbon Felt Electrodes for Redox Flow Batteries
0940	Bernd Bauer	Fuma Tech	Supply chain issues for flow battery separators
1000	Paul Casey	American Vanadium	Vanadium Supply issues
1020	Christof Wiedmann	Cellstrom GmbH	Case studies for vanadium flow battery applications
1040	Questions & Discussion		
1050	REFRESHMENTS		
Session Chair: Sir John Samuel			
1110	Gwen Holdmann	Alaska Center for Energy and Power, University of Alaska	Advanced Battery Storage Systems' Testing – A Practical Solution for Power Networks in Cold Climate Operations
1130	Burak Turker	Next Energy – EWE Research Center	Technical and Economic Assessment of Utilizing Vanadium Redox Flow Batteries for Grid Integration of Wind Power
1150	Ruska Kelevska	European Commission DG Environment	The implications of the batteries directive on the deployment of flow batteries
1210	Guido de Jongh	Cen-Cenelec	Development of international standards for flow batteries
1230	Question & Discussion		
1300	LUNCH		
Session Chair: Larry Thaller			
1400	Rick Winter	Primus Power	Progress on the energy cell development
1420	Frank Escombe	EscoVale Consultancy Services	The opportunity for flow batteries within the energy storage market
1440	Doo-Yeon Lee	Samsung Advanced Institute of Technology, Korea	Aromatic ligand coordinated redox couples and their application into redox flow batteries
1500	Martin Nicolas & F Canal	INES and LSE	Controlling Photovoltaic Power Generation with a Vanadium Redox flow Energy Storage System
1520	Questions & Discussion		
1530	REFRESHMENTS		
Session Chair: David Hodgson			
1550	Ahmad Mousavifar	Renewable Energy Organisation of Iran	Fabrication of the first vanadium flow battery in Iran
1605	Grigori Soloveichick	GE	Organic Fuel
1620	Yu Wang	Institute for Power Generation and Storage	2-D All Vanadium Redox-Flow Battery Physical Model for Analyzing Current Distribution inside the Cell and Flow Rate (By link)
1640	Question & Open Discussion		
1640	Closing Remarks		
1700	END OF CONFERENCE		