

The International Flow Battery Forum- 2012

PROGRAMME: SUBJECT TO FINAL CONFIRMATION

Tuesday 26 June

Time	Speaker	Affiliation	Title
0900	Anthony Price	IFBF	Introduction
Session Chair: Anthony Price			
0910	Adam Weber	Lawrence Berkeley National Laboratory	Hydrogen-Bromine Flow Battery for Grid-Scale Energy Storage
0930	Richard Wills	University of Southampton	Zinc-air flow batteries
0950	Chris Winter	Redflow	Standardising Flow Batteries for System Integrators
1010	Gary Yang	UniEnergy Technologies	New Generation Vanadium Flow Batteries
1030	Rüdiger Schweiss	SGL Carbon	Carbon materials for Flow Batteries
1050	REFRESHMENTS		
Session Chair: Simon Stone			
1120	Bill Radvak	American Vanadium	Vanadium – A Critical Element
1140	Huamin Zhang	Dalian Rongkepower Co.	Flow Battery Demonstration Projects
1200	Matthew Harper	Prudent Energy	Deploying the Future: Lessons from Three Megawatt-Scale Energy Storage Projects
1220	Ilja Pawel	Cellstrom	Multifunctional Energy Storage System FB200-400 based on Vanadium Flow Technology
1240	Byron Konstantinos Antonopoulos	Siemens	Critical Parameters of a Vanadium Flow Battery for renewable energy sources
1300	LUNCH		
Session Chair: Martha Schreiber			
1400	Travis Anderson	Sandia National Laboratories	Metal Ionic Liquid Electrolytes for Flow Batteries
1420	Ao Tang	University of New South Wales	Mathematical modelling and investigation of the thermal effect on the electrolyte temperature for the all-vanadium flow battery
1440	Matthew Mench	Oak Ridge National Laboratory	Pathway to Greatly Enhanced Power Density in Vanadium Flow Batteries
1500	Shawn Thorne	ONRG	US Navy Research on Flow Batteries
1520	REFRESHMENTS		
Session Chair: Jens Noack			
1550	Carlos Sanchez	University of Alicante	Potentiometric control system for the all iron redox-flow battery
1610	Anthony Price	Swanbarton	Soapbox and Poster Paper Presentations
1615	Dirk Schneider	SGL Carbon	Recent developments at SGL Carbon
1620	Chris Menictas	University of New South Wales	Simulation of Off-Grid Vanadium Flow Battery Storage System
1625	Summer Ferreira	Sandia	Selected Test Results from the RedFlow 5kW, 10kWh Zinc-Bromine Module
1630	Jan Austing	Next Energy	Membrane electrode preparation procedure and performance of Flow Air Batteries
1635	Nicholas Hudak	Sandia	Thermodynamics of Flow Battery electrodes
1640	Cornelius Geiger	Battery-Man	Plug And Play Battery Management System
1645	Ahmad Mousavifar	Renewable Energy Organization of Iran	New Modification of Vanadium Flow Battery in Iran
1650	DISCUSSION		
1700	CLOSE		

1830 Buses depart for Bavarian National Museum and Conference Buffet Dinner.

WEDNESDAY 27 JUNE

Time	Speaker	Affiliation	Title
Session Chair: John Samuel			
0900	Nathan Coad	ZBB Energy Systems	Operation of a 500 kWh Zinc bromine system
0920	Larry Thaller		Cost Estimates for Flow Battery Systems
0940	Holger Fink	ZAE Bayern	Advanced Electrodes for Vanadium Flow Batteries
1000	Antonio Rodolfo dos Santos	Clausthal University of Technology	Evaluation of graphite based bipolar plates for vanadium flow battery applications
1030	REFRESHMENTS		
Session Chair: Chris Winter			
1100	Sean Cuthbert	Lloyds Register	Thermodynamic Framework for Assessing the Risk of Large-Scale Electrochemical Energy Storage Systems
1120	Doo-Yeon Lee	Samsung	Cycle life performance of a double component non-aqueous flow battery
1140	Thomas Zawodzinski	University of Tennessee	Membranes for Flow Batteries: Materials and Transport
1200	PANEL DISCUSSION		Opportunities and barriers for flow battery development
1245	LUNCH		
Session Chair: Rick Winter			
1415	Haiming Xiao	GrafTech	Electrochemical Study of Surface Modified Graphite Bipolar Plates and Felts Applied in a Flow Battery for Improving the Power Density and the Energy Efficiency
1435	Vladimir Yufit	Imperial College	Regenerative fuel cells – a new perspective on longstanding problems
1455	Kolja Bromberger	Fraunhofer-Institute for Solar Energy systems	Design layout and operational experience of kW-class all-vanadium flow battery
1515	Toshikazu Shibata	Sumitomo Electric Industries	Performance results of a Redox Flow Battery System applied to DC micro grid
1535	REFRESHMENTS		
Session Chair: Larry Thaller			
1600	Juan Escudero González	Resenergy	Computational Fluid Dynamics Analysis Applied to a Prototype of Flow Battery
1620	Sreenivas Jayanti	IIT Madras	A Stand-alone, Coupled Solar Photovoltaic and Flow Battery Power Generator System for Domestic Applications
1640	Closing Remarks		