

NOVEMBER 6TH- 7TH, 2013 - WORKSHOP „LITHIUM-SULFUR-BATTERIES II“

Fraunhofer Institute for Material and Beam Technology IWS
Winterbergstraße 28, 01277 Dresden, Germany

November 6th, 2013

09:30 Registration

Session I Materials and processing

Chair: Prof. Dr. Stefan Kaskel, Fraunhofer IWS, TU Dresden

10:00 Welcome and opening
Prof. Dr. Eckhard Beyer
Fraunhofer IWS, TU Dresden

10:15 High-energy secondary metal-sulfur batteries: cathode, anode, and electrolyte solutions
Prof. Lynden A. Archer, NOHMS / Cornell University

11:00 Carbon conductive additives for battery electrodes
Thomas Hucke, TIMCAL Ltd.

11:30 Carbon nanomaterials for sulfur cathodes
Dr. Holger Althues, Fraunhofer IWS

12:00 *Lunch break*

13:15 Tailor made Li₂S as raw material for battery applications
Dr. Hannes Vitze, Rockwood Lithium GmbH

13:45 Long cycling stability of Si microwire anodes with electrolytes for Li-S batteries
Dr. Enrique Quiroga-Gonzalez, Christian-Abrechts-Universität zu Kiel

14:15 Importance of in-situ techniques in the investigation of rechargeable lithium-sulfur batteries
Natalia Cañas, Deutsches Zentrum für Luft- und Raumfahrt (DLR)

14:45 Si/C-composite anodes for stable Li-S cells
Jan Brückner, Fraunhofer IWS

15:15 *Coffee break*

15:45 Li-S battery research at BELLA
Dr. Fernanda Lodi-Marzano, Karlsruher Institut für Technologie

16:15 Carbon coated lithium sulfide as active material in lithium-sulfur batteries:
Suitable carbon precursors and wetting effects with different electrolytes
Henrik de Vries, MEET Batterieforschungszentrum

17:00 *Poster session and dinner at Fraunhofer IWS*

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Session II Applications/Trends

Chair: Dr. Holger Althues, Fraunhofer IWS

- 09:00 A contribution to the progress of high energy batteries:
development of advanced lithium-sulfur batteries
Prof. Bruno Scrosati, Elettrochimica ed Energia, Rome, Italy
- 09:45 High energy rechargeable Li-S battery development at Sion Power and BASF
Dr. Igor Kovalev, BASF / Sion Power
- 10:15 *Coffee break*
- 10:45 High Altitude Pseudo-Satellites – an application of Li-S batteries
Dr. J. Federhen, EADS Astrium
- 11:15 Requirements for stationary energy storage
Stephan Lux, Fraunhofer ISE
- 11:45 Integration of traction batteries in electric vehicles. Status and challenges.
Dr. Philipp M. Oberhumer, BMW Group
- 12:15 Concluding remarks
Prof. Dr. Stefan Kaskel, Fraunhofer IWS, TU Dresden
- 12:30 *Lunch break*
- 13:30 *Tour through the labs of the Fraunhofer IWS (optional 1h)*