

REGISTRATION FORM

FP7 INFLUENCE
Topical Workshop on Interfaces in Batteries & Progress Meeting

Helmholtz Institute Ulm (HIU), Ulm
 2014, November 20-21st

PERSONAL DETAILS

First Name		Last Name	
Organization		Position	
Address			
City Code	City		
Country		Nationality	
Phone		E-mail	
Workshop November 20 th , 2014 8:30 – 12:30h <input type="checkbox"/> YES <input type="checkbox"/> NO		Progress Meeting November 20 th – 21 st , 2014 <input type="checkbox"/> YES <input type="checkbox"/> NO	

REGISTRATION

1. Please send the registration form until latest November 6th, 2014
2. Registration will be formalized by sending registration form to:

Luciana Gomes Chagas Helmholtzstrasse 11 89081 Ulm GERMANY	Tel.: 00 49 731 50 34114 luciana.chagas@kit.edu http://www.hiu-batteries.de/de/
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The FP7 project InFLUENCE aims at improving the fundamental understanding and control of interfaces of a battery type based on Li-ion and Na-ion active materials: semi solid flow batteries (SSFB). The methods and techniques developed are however generic and could as well be implemented for conventional Li- and Na-ion systems for the techniques that do not focus on flow aspects.

A main objective is the investigation and optimization of the interfaces developing between the electrolyte and the electrochemically active material particles in fluid electrodes. The acquired knowledge would allow the chemical and morphological optimization of active materials as well as the design of optimized interfacial layers (also called artificial Solid Electrolyte Interfaces, art-SEI) capable of warrant stable interfaces.

A second main objective is the understanding and control the mechanical and conductive behaviours of the slurries. For this, it is necessary to determine the role of shape anisotropy and the overall nature (attractive or repulsive) of the short ranged interactions of the active materials besides the strength of the attractive forces for conductive nano-particles. The cross interaction should allow intimate contact between active material and the conductive particles.

More information:

www.fp7-influence.eu

email: fp7-influence@vito.be

November 20th, 08:30-12:30

Organizer: Karlsruhe Institute of Technology (KIT)

Location: Helmholtz Institute Ulm, Albert Einstein Allee 11

<http://www.hiu.kit.edu>

The workshop will focus on the interfaces of active materials in conventional lithium-ion, sodium-ion and magnesium batteries with special regards to SSFBs.

Program

08:30 - 09:00 Welcome

09:00 – 09:30 *Stefano Passerini, KIT-HIU:*

“From intercalation to conversion and conversion-alloying anode materials”

09:30 - 10:00 *Roberto Marassi, University of Camerino:*

“Solid Electrolyte Interphase”

10:00 - 10:30 *Vito Di Noto, University of Padova:*

“Interfaces in Magnesium batteries”

10:30 - 11:00 Coffee Break

11:00 – 11:30 *Daniel Buchholz, KIT-HIU:*

“Development of layered cathode materials for lithium and sodium based materials”

11:30 - 12:00 *Cristina Flox, IREC:*

“Redox Flow Batteries”

12:00 - 12:30 *Remy Lacroix, 6TMIC:*

“Electrochemical Modelling of Processes in Batteries”

12:30 Wrap-up and final remarks. End of the workshop.