WORKSHOP ON UNDERSTANDING INTERFACES IN ELECTROCHEMICAL STORAGE SYSTEMS

OCTOBER 6TH AND 7TH, TOURS (FRANCE)

Hi-C project



Baccara project

PROGRAMME

TUESDAY 6 OCTOBER 2015

TOESDAT O OCTOBER	2013
8:45-9:00	Registration
9:00-09:30 Project Presentation	Hi-C Project Paul Norby (DTU, Hi-C coordinator)
9:30-10:00 Project Presentation	Baccara Project Pascale Bayle-Guillemaud (CEA INAC Grenoble France, Baccara coordinator)
10:00-12:05 10:00-10:25 Invited lecture	SESSION 1: SILICON ELECTRODE Silicon thin films as a tool for a better understanding of silicon electrode/electrolyte interactions in lithium-ion batteries Frédéric Le Cras, CEA LETI Grenoble, France
10:25-10:50 Lecture	SEI characterization and failure mechanism of Si electrodes in full Li-ion cells Philippe Moreau, IMN Nantes, France (Baccara project)
10:50-11:15	Coffee break (posters)
11:15-11:40 Invited Lecture	Methylated silicon anodes with improved electrochemical performances for Li-ion batteries Michel Rosso, LPMC Palaiseau, France
11:40-12:05 Invited Lecture	Development of silicon electrodes for Li-ion batteries Willy Porcher, CEA LITEN Grenoble, France
12:05-14:00	Lunch
14:00-14:50 14:00-14:25 Invited Lecture	SESSION 2: SYSTEMS A potential new generation of Li-ion batteries Erik Kelder, Delft University of technology, Netherlands
14:25-14:50	High Energy Density Cells: Integration to Automotive Applications and Challenges
Invited Lecture	Bruno Delobel, Renault, Technocentre Guyancourt, France
14:50-17:30 14:50-15:15 Invited Lecture	SESSION 3: CHARACTERIZATION TECHNIQUES In Situ Raman Microscopy Study for Li-ion Battery Electrode Materials Laura Cabo Fernandez, University of Liverpool, England
15:15-15:40 Lecture 15:40-16:15	SEI investigation by Synchrotron X-rays reflectivity Sandrine Lyonnard, CEA INAC Grenoble, France (Baccara project) Coffee break (posters)

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16:15-16:40 Lecture	ToF-SIMS trends and potentialities as a complementary approach for the study of electrode materials Eric De Vito, CEA LITEN Grenoble, France (Baccara project)
16:40-17:05 Lecture	Materials and Diagnostic Tools for Advanced Li-ion and post Li-ion Batteries Yair Ein-Eli, Technion, Israel (Baccara project)
17:05-17:30 Lecture	Ionic and electronic transport properties in LiFeBO3 from DFT Tejs Vegge, Technical University of Denmark (Hi-C project)
17:30-17:55	Apparatus and methods for Non-intrusive and operando study of batteries and supercapacitors materials: acoustic emission and thermal analysis coupled to electrochemical characterization Nicolas Guillet, CEA-INAC Grenoble, France (Hi-C project)
18:00-20:00	Wine yard visit
20:00-22:00	Diner near river Loire (Grotte de la Roche aux Fées, Rochecorbon)

WEDNESDAY 7 OCTOBER 2015

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9:00-10:40 9:00-9:25 Invited Lectures	SESSION 4: INTERFACES Modification of the interface properties using additives or fluorinated solvents Fanny Alloin, Laboratoire LEPMI Grenoble, France	
9:25-9:50 Invited Lecture	Intermetallic phases as efficient negative electrodes for Li-ion batteries: role of the interfaces Laure Mauconduit, Laboratoire AIME Montpellier, France	
9h50-10:15 Invited Lecture	Modelling the electrochemical interface at ab initio level Jean Sébastien Filhol, Université de Montpellier, France	
10:15-10:40 Lecture	Identifying an adsorption step in the SEI formation mechanism Daniel Lemordant, Université de Tours, France	
10:40-11:10	Coffee break	
11:10-12:00 11:10-11:35 Invited Lecture	SESSION 5: ELECTRODE AND ELECTROLYTE New insights about Solvent-free polymer electrolytes: from polymer/salt complexes to single-cation conducting polymers Jean-Yves Sanchez, LEPMI Grenoble, France	
11:35-12:00 Lecture	Li distribution of half delithiated (Li)FePO4 and Carbon coating on (Li)FeBO3 measured by TEM Xiaoke Mu, Karlsruhe Institute of Technology, Germany	
12:00-14:00	Lunch buffet (Buffet de la gare)	
14:00-16:00	Old town visit and end of the meeting	