



## BIANNUAL MEETING

12-13 December 2017, Hub de l'Énergie, rue Baudelocque, Amiens, France

ALISTORE academic and industrial partners meet to present the scientific progress, activities, and highlights of the characterization platforms that occurred during the last six months within the groups. All challenges, technologies and techniques will be discussed over a two-day programme.

Please register **HERE** before **30<sup>th</sup> November**  
<https://goo.gl/forms/soVSVYo4XcTY5LJo1>

### Programme of 12<sup>th</sup> December 2017



**09:30 Welcome**

*Mathieu Morcrette, Director of LRCS  
Denis Postel, Vice-President – Research department of  
Université Picardie Jules Verne*

**09:40 ALISTORE Activities**

*Rosa Palacin, Patrice Simon, Direction*

**10:30 Research funded by ALISTORE**

*Current PhD students and Post-Doctoral researchers within  
ALISTORE labs. 10 min presentation, 5 min for questions.*

- *Viktor Nilsson, PhD of Uppsala Univ and Chalmers Univ.  
Technology  
« Critical evaluation of the stability of highly concentrated  
LiTFSI - acetonitrile electrolytes vs. graphite, lithium metal  
and LiFePO4 electrodes »*
- *Piotr Jankowski, PhD of Warsaw Univ. of Technology and  
Chalmers Univ. Technology  
« Computational and Experimental studies on Sulfur-  
containing SEI-forming Additives for Lithium-ion Batteries »*

**11:00 Coffee break**

**11:30 Research funded by ALISTORE**

- Robert Armstrong, St Andrews University  
*Eun Jeong Kim's work (PhD) « improved electrochemical performance of LiCoPO<sub>4</sub> using eco-friendly aqueous binders »*
- Amangeldi Torayev, PhD of LRCS and Univ. of Cambridge  
*« Transport and anisotropy in Li-O<sub>2</sub> batteries »*
- Theodosios Famprikis, PhD of Univ. of Bath and LRCS  
*« Oxysulfide solid electrolytes for all-solid-state batteries »*
- Marcus Fehse, Post Doc Univ. of Kent and TuDelft  
*« X-ray absorption for investigating complex conversion reactions »*
- J. Jiju Arayamparambil, PhD of ICGM and Univ. of Kent  
*« Operando XAS study of CoNCN reaction mechanism in Li-ion batteries »*
- Antonio Scarfuri, PhD of ICGM and NIC  
*« Innovating Calcium batteries »*

**13:00 Buffet lunch**

**14:15 Research by academia and industry**

Hot topic presentation or highlights of 20 min presentation, 10 min for questions

- Bernard Lestriez, IMN  
*« A film maturation process for improving the cycle life of silicon-based anodes »*
- Robert Dominko, NIC  
*« Mechanistic studies of metal sulfur batteries»*
- Chandramohan George, TuDelft  
*« Light-active Polymeric Binders Towards Photo-chargeable Batteries »*
- Marek Marcinek, WUT  
*« New Salts Saga - Is it feasible to make a full cell with Huckel type based electrolytes? »*

**16:15 Coffee break**

**16:45 Presentation of ALISTORE-ERI Presidency application**

**17 :00 Presentation of ALISTORE-ERI Scientific direction application**

**17 :30 Presentation of new member applications  
CIDETEC, LANCASTER, DUT Energy, TALLINN  
and Twente**

**18:15 Closure**

**19:30 Dinner - Le Quai, 13-15 Quai Belu - Amiens**





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ALISTORE academic and industrial partners meet to present the scientific vision.  
The meeting will close following the Scientific Council meeting.

### Programme of 13<sup>th</sup> December 2017

**08:30** **White Paper on Ageing mechanism in Li-ion based batteries**  
*Rosa Palacin*

**09:15** **Parallel sessions**  
Industrial Club members  
Academic members

**10:00** **Coffee break**

**10:30** **Scientific Council**  
**Votes on:**  
**Debtor institutions**  
**Withdrawal: Marseille**  
**New members: CIDETEC, LANCASTER, DUT Energy, TALLINN and Twente**

**11:45** **Closure**

**12:00** **Lunch**

**13:15** **Visit of the Hub**

