



BIANNUAL MEETING

June 12-13, 2018 - Bohinj ECO Hotel, Bohinjska Bistrica, Slovenia

ALISTORE-ERI academic and industrial club members meet to present the scientific progress, activities, and highlights of the last six months. All challenges, technologies and techniques are to be discussed within a two-day programme.

Please register **HERE** before **May 15th**:
<https://goo.gl/forms/B1msziMWTlkwXvJq1>

Programme of June 12th, 2018

08:45 **Welcome**

Miran Gaberšček, Head of the Laboratory for Materials Electrochemistry at the National Institute of Chemistry (NIC)
Robert Dominko, Associate Professor at NIC



08:55 **ALISTORE-ERI Activities - Reporting**

09:15 **Presentations by new members of ALISTORE-ERI**

Idoia Urdampilleta, CIDETEC Head of Materials for Energy Unit
"Cidetec Energy Storage: Research lines and capabilities"

Harry Hoster, Director of Energy Lancaster University
"The Energy Storage Group at Lancaster"

Tejs Vegge, Professor, Head of Section DTU Energy,
"Atomic-scale computational design and characterization of novel battery materials"

Raiker Witter, Tallinn University of Technology
"Advances in Fluoride Ion Batteries"

Mark Huijben, Associate Professor, University of Twente
"Advanced Thin Film Technology for Interface Engineering of Next-generation Batteries"

10:05 Research funded by ALISTORE-ERI

Current PhD students and Post-Doctoral researchers within ALISTORE-ERI labs; 10 min presentation + 5 min for questions.

- Patrik Johansson, Chalmers University of Technology
Viktor Nilsson's work, 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"*
- Piotr Jankowski, PhD of Warsaw Univ. of Technology and Chalmers Univ. of Technology
"Designing new SEI-forming additives for lithium-ion battery electrolytes"
- Eun Jeong Kim, PhD of St Andrews Univ., LRCS Amiens and ICMCB Bordeaux
"Improved electrochemical performance of LiCoPO4"
- Amangeldi Torayev, PhD of LRCS Amiens and Univ. of Cambridge
"Importance of 3D electrode structure inclusion in Li-O2 battery modelling techniques"

11:05 Coffee break

11:35 Research funded by ALISTORE-ERI

- Theodosios Famprikis, PhD of Univ. of Bath and LRCS Amiens
"Lithium and Sodium orthophosphates for solid state batteries"
- Marcus Fehse, Post Doc Univ. of Kent and TuDelft
"X-ray Raman scattering for characterizing electrode materials"
- Lorenzo Stievano, ICG Montpellier
J. Jiju Arayamparambil's work, PhD of ICG Montpellier and Univ. of Kent: *"Evaluation of electrochemical performance and mechanism of different metal carbodiimides"*
- Antonio Scarfuri, PhD of ICG Montpellier and NIC Ljubljana
"Benchmarking of electrolytes for Ca batteries and compatibility with organic cathodes"

12:30 Buffet lunch and photo

14:00 Research by academia and industry

Hot topic presentations or highlights; 20 min presentation + 10 min for questions

- Deyana Tchitchekova, ICMAB Barcelona
"On the quest for cathode materials for Ca batteries"
- Lorenzo Stievano, ICG Montpellier
"New insights on sodiation-desodiation mechanism of SnSb from operando spectroscopy"

- *Sara Drvarič Talian, NIC Ljubljana*
“How does a non-conductive surface film deposition effect the obtained specific capacity in Li-S batteries?”
- *Alejandro Franco, LRCS Amiens*
“A glimpse of the ERC Project “ARTISTIC”: A computational platform for the optimization of battery electrode fabrication processes”

16:00 **Coffee break**

16:30 **Research by academia and industry**

- *Nicolas Dupré, IMN Nantes*
“Elucidation of reaction mechanisms of Ni₂SnP in Li-ion and Na-ion systems”

17:00 **Presentation of ALISTORE-ERI co-shared Post-Doc/PhD proposals; 5 min/topic.**

17:30 **COFUND discussion**

18 :00 **Closure**

19:30 **Dinner**





Welcome to the ALISTORE-ERI meeting

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Programme of June 13th, 2018

- 08:30** **White Paper on « Lithium metal protected anodes »**
*Laure Monconduit, ICG Montpellier and Frédéric Leccas, ICMCB
Bordeaux*

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

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

- 10:30** **Scientific Council**

- 11:45** **Closure**

- 12:00** **Lunch**