



5th MOMENTOM Workshop

Materials for Energy: Characterization and Operando Studies

2019 June 25th
Synchrotron SOLEIL
L'Orme des Merisiers, Saint-Aubin, France

Programm

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|---------------|--|--------------------------------------|
| 09:45 - 10:00 | Welcome Coffee [room Phenix A.1.0.59] | |
| 10:00 - 12:00 | Beamlines organized visits (AILES, HERMES, ROCK, SIXS and TEMPO) | |
| 12:00 - 14:00 | <i>Lunch break at SOLEILs' canteen, Coffee [room Phenix A.1.0.59]</i> | |
| 14:00 - 14:10 | Introduction [<i>Amphitheater</i>]
<i>Hynd Remita, MOMENTOM scientific organizer</i> | |
| | LECTURES SESSION 1 | Chairperson: Johnny Deschamps |
| 14:10 - 14:40 | An upgrade for SOLEIL?
<i>Andrew Thompson, Synchrotron SOLEIL</i> | |
| 14:40 - 15:10 | Multiscale Characterizations of Charge Transport Properties within a Positive Electrode for Lithium-Ion Batteries
<i>Nicolas Besnard, Groupe RENAULT</i> | |
| | SHORT KEYNOTE SESSION 1 | Chairperson: Stéphanie Belin |
| 15:10 - 15:20 | Anionic redox mechanism and voltage hysteresis in disordered rocksalt
<i>Antonella Iadecola, RS2E</i> | |
| 15:20 - 15:30 | Operando analysis of lithium profiles in Li-ion batteries using nuclear microanalysis
<i>Suzy Surble, LEEL, NIMBE</i> | |
| 15:30 - 15:40 | Infrared Spectroscopy at the AILES beamline
<i>Jean-Blaise Brubach, Synchrotron SOLEIL</i> | |
| 15:40 - 15:50 | Surfaces Interfaces X-ray Scattering (SixS) beamline at SOLEIL: a tool to study heterogeneous catalysts under operando conditions
<i>Alessandro Coati, Synchrotron SOLEIL</i> | |
| 15:50 - 16:00 | Near ambient Pressure X-Ray Photoelectron Spectroscopy » on TEMPO beamline: A new tool for surface characterization for operando studies
<i>Jean-Jacques Gallet, LCPMR</i> | |
| 16:00 - 16:10 | Ion irradiation and microstructural characterization of nuclear materials using in situ Transmission Electron Microscopy at JANNuS-Orsay
<i>Aurélie Gentils, CSNSM</i> | |
| 16:10 - 16:40 | <i>Coffee Break</i> | |

LECTURES SESSION 2**Chairperson: Valérie Briois**

- 16:40 - 17:10 Sustainable Energies and Neutron Scattering
Christiane Alba-Simionesco, LLB, CEA Saclay
- 17:10 - 17:40 Towards in-situ or operando characterization of materials applied to the fields of new energies and responsible oil and gas
Christèle Legens, IFPEN

SHORT KEYNOTE SESSION 2**Chairperson: Pascale Roy**

- 17:40 - 17:50 XAS Characterization of Transition Metal Clathrochelates for H₂ Production in Proton Exchange Membrane Water Electrolysers
Pierre Millet, ICMMO
- 17:50 - 18:00 Mobile Charge-Carriers in Photoactive Materials followed by Time Resolved Microwave
Christophe Colbeau-Justin, LCP
- 18:00 - 18:10 Hybrid Ruddlesden-Popper Perovskites for Photovoltaic
Damien Garrot, GEMaC
- 18:10 - 18:20 Reciprocity principle for energy conversion: a case for operando studies
Jean-François Guillemoles, IPVF

POSTERS SESSION

- 18:20 - 20:00 *Cocktail and Poster Session*