

# 5<sup>th</sup> MOMENTOM WORKSHOP

## Materials for Energy: Characterization and Operando Studies

### Program

- 9h45** Reception of participants and welcome coffee (Phenix room A.1.0.59)
- 10h00-12h00** Visit of the lines (AILES, HERMES, ROCK, SIXS and TEMPO)
- 12h00-14h00** Lunch (canteen R2C) and coffee at Phenix room A.1.0.59
- 14h00-14h10** **H. Remita** (MOMENTOM coordinator) Introduction (Amphi)

### Session I: Plenary communications. Chairman: J. Deschamps

- 14h10-14h40** **A. Thompson** (Synchrotron SOLEIL) An upgrade for SOLEIL?
- 14h40-15h10** **N. Besnard** (Groupe RENAULT) Multiscale Characterizations of Charge Transport Properties within a Positive Electrode for Lithium-Ion Batteries

### Session I: Short communications. Chairman: S. Belin

- 15h10-15h20** **A. Iadecola** (RS2E) Anionic redox mechanism and voltage hysteresis in disordered rocksalt
- 15h20-15h30** **S. Surble** (LEEL, NIMBE) Operando analysis of lithium profiles in Li-ion batteries using nuclear microanalysis
- 15h30-15h40** **J. B. Brubach** (Synchrotron SOLEIL) Infrared Spectroscopy at the AILES beamline
- 15h40-15h50** **A. Coati** (Synchrotron SOLEIL) Surfaces Interfaces X-ray Scattering (SixS) beamline at SOLEIL: a tool to study heterogeneous catalysts under operando conditions
- 15h50-16h00** **J. J. Gallet** (LCPMR) Near ambient Pressure X-Ray Photoelectron Spectroscopy » on TEMPO beamline: A new tool for surface characterization for operando studies
- 16h00-16h10** **A. Gentils** (CSNSM) Ion irradiation and microstructural characterization of nuclear materials using in situ Transmission Electron Microscopy at JANNuS-Orsay
- 16h10-16h40** Coffee break

## Session II: Plenary communications. Chairman: V. Briois

- 16h40-17h10** **C. Alba-Simionesco** (LLB, CEA Saclay) Sustainable Energies and Neutron Scattering
- 17h10-17h40** **C. Legens** (IFPEN) Towards in-situ or operando characterization of materials applied to the fields of new energies and responsible oil and gas

## Session II: Short communications. Chairman: P. Roy

- 17h40-17h50** **P. Millet** (ICMMO) XAS Characterization of Transition Metal Clathrochelates for H<sub>2</sub> Production in Proton Exchange Membrane Water Electrolysers
- 17h50-18h00** **C. Colbeau-Justin** (LCP) Mobile Charge-Carriers in Photoactive Materials followed by Time Resolved Microwave Conductivity
- 18h00-18h10** **D. Garrot** (GEMaC) Hybrid Ruddlesden-Popper Perovskites for Photovoltaic
- 18h10-18h20** **J. F. Guillemoles** (IPVF) Reciprocity principle for energy conversion: a case for operando studies

## Poster session & Cocktail

- 18h20-20h00** Poster presentations and dinner cocktail

