



Central European
Research Infrastructure
Consortium

SCIENCE@CERIC 2021

ENERGY

Live on ZOOM on
January 28 and 29

Register at:
www.ceric-eric.eu

Day 1, 28th January 2021

09:00 - 09:10	Opening, Jana Kolar , Executive Director CERIC-ERIC
09:10 - 09:30	Challenges of the solid-state Li-ion battery research - Investigation of the electro-chemo-mechanical ageing of all-solid-state Li-ion batteries (TBC) Robert Kun , Lóránd Eötvös Research Network
09:30 - 09:50	Nanoscale phase evolution in beyond intercalation-type energy storage systems (TBC) Christian Prehal , Graz University of Technology/ETH Zürich
09:50 - 10:10	Operando characterization of batteries using x-ray absorption spectroscopy: advances at the beamline XAFS (TBC) Giuliana Aquilanti , Elettra Sincrotrone Trieste
10:10 - 10:30	Operando x-ray diffraction: looking inside working batteries at MCX@Elettra (TBC) Jasper Plaisier , Elettra Sincrotrone Trieste
10:30 - 10:40	BREAK
10:40 - 11:00	In-situ and operando studies on batteries with the powerful tool of neutrons Ralph Gilles , Neutron FRM2 Munich

11:00 - 11:20	Fuel cell materials under accelerated stress tests (TBC) Ivan Khalakhan , Charles University of Prague
11:20 - 11:40	Solid-state NMR spectroscopy of energy-storage materials Gregor Mali , National Institute of Chemistry (SLO)
11:40 - 12:00	Efficiency enhancement of proton exchange membrane water electrolyzers through utilization of thin-film technologies Peter Kus , Charles University Prague

Day 2, 29th of January 2021

09:00 - 09:20	2D materials as efficient active platforms for catalyzing the hydrogen evolution reaction (TBC) Levente Tapaszto , Lóránd Eötvös Research Network
09:20 - 09:40	Photovoltaic materials (TBC) Thomas Rath , Graz University of Technology
09:40 - 10:00	Materials for the energy studies (TBC) Marcin Sikora , Solaris
10:00 - 10:10	BREAK
10:10 - 10:30	Operando synchrotron methods for the study of batteries: application to alloy and conversion reactions (TBC) Lorenzo Stievano , Institut Charles Gerhardt Montpellier
10:30 - 10:40	Students' presentations
10:40 - 11:00	Long-term battery research roadmap at EU level (TBC) Robert Dominko , National Institute of Chemistry (SLO)
11:00 - 11:20	Fuel cells (TBC) Benedetto Bozzini , Politecnico di Milano
11:20 - 11:50	Panel discussion moderated by Robert Dominko
11:50 - 12:00	Closing

Program Committee

Heinz Amenitsch (Chair)	Graz University of Technology- Austria
Milko Jakšić	Ruđer Bošković Institute- Croatia
Vladimir Matolin	Charles University Prague- Czech Republic
Tamás Belgya	Hungarian Academy of Sciences- Hungary
Marco Marazzi	Elettra Sincrotrone Trieste- Italy
Marek J. Stankiewicz	Solaris- Poland
Ionut Enculescu	National Institute of Material Physics- Romania
Janez Plavec	National Institute of Chemistry- Slovenia