INTRODUCTION

Energy storage is widely used in many applications in the spheres of practical life and technology uses. As we are continuing to acquire these new energy storage technologies and their utilities, there is an increased demand for the enhancement of the performance metrics of all storage devices. This includes a high life-cycle, depth of discharge improvement, conventional uses, power and energy density, a wide operating temperature range and reduced cost while improving the safety and reliability of the systems. In this conference we have invited global experts and leaders to discuss the progress and future outlook in their respective technologies of focus. The objective of the conference is to encourage the sharing of knowledge and ideas from related fields in order to promote innovation, a scientific attitude towards growth and practical development, and modelling of energy storage.

8 SEPTEMBER 2016
SESSION 1
08H00 Shuttle departure from Tours to Domaine de la Tortinière
08H30 Welcome coffee & Registration
09H00 Opening
Serge Dufort (Director of CEA Le Ripault)
Pr Daniel Alquier (Vice-president of Partnerships and Innovations of University François Rabelais of Tours)
LE STUDIUM
09H50 Pr Tsuyoshi Nakagima
Application of Fluorinated Materials to Lithium Batteries
10H30 Coffee break – Posters session

SESSION 2: CHAIRMAN DANIEL LEMORDANT
11H00 Dr Rachid Yazami
Lithium ion batteries for future energy storage
11H40 Dr Matjaz Kozelj
Safe Li ion battery and beyond for energy storage and EVs
12H20 Lunch

SESSION 3: CHAIRMAN FRANÇOIS BEGUIN
14H00 Pr Daniel Steingart
Learning New Things from Old Chemistries: Revisiting Ideas “Before Lithium Ion”
14H40 Dr Rahul Walawalkar
Drivers for energy storage adoption for grid applications: Insights from US & India
15H20 Pr Gopalakrishnan Gopu
Challenges on existing power sources-Aversion from social science
16H00 Coffee break – Posters session
16H30 Pr David Koester
The social dimensions of hydrogen deployment
17H00 Fabien Nony
CEA presentations
18H15 Shuttle departure to Wine testing and dinner

SESSION 4: CHAIRMAN RACHID YAZAMI
15H50 Pr Qing Wang
Redox Flow Lithium Batteries for Large-scale Energy Storage
16H30 François Hubert
KEMWATT
17H15 Shuttle departure to the Tours City Hall

SESSION 5: CHAIRMAN MÉRIÈM ANOUTI
18H30 Anne De Guibert
L’énergie disponible à tout moment : produire, économiser, stocker
French grand public conference, LE STUDIUM LECTURE
20H00 Shuttle departure to the gala dinner
Future strategies in electrochemical technologies for efficient energy utilisation

SESSION 1: CHAIRMAN PIERRICK BUVAT
07H45  Shuttle departure from Tours to Domaine de la Tortinière
08H00  Welcome coffee
08H30  Dr Richard Dawson
Alkaline fuel cells, the advantages, the challenges and possible futures
09H15  Pr Eric D. Wachsman
Ion Conducting Oxides for Electrochemical Energy Conversion and Storage
09H50  Dr Javier R Varela
Development of high-performance anode and cathode nanocatalysts for acid and alkaline Direct Alcohol Fuel Cells
10H30  Coffee break – Posters session

SESSION 2: CHAIRMAN BÉNÉDICTE CLAUDE-MONTIGNY
11H00  Pr EunAe Cho
Non-precious catalysts for oxygen reduction reaction and oxygen evolution reaction in fuel cells and electrolysis cells
11H40  Dr Himanshu Tyagi
Efficient Energy Transfer & Storage: Utilizing Nanoparticles for Harnessing Solar Energy
12H20  Lunch

SESSION 3: CHAIRMAN SATYAJIT PHADKE
14H00  Pr Ki Tae Nam
Bioinspired Water Oxidation and CO2 Reduction Electrocatalysts
14H40  Xavier de Logiviere
NAWATechnologies
15H20  Coffee break – Posters session

SESSION 4: CHAIRMAN SATYAJIT PHADKE
15H50  Dr Roman Mysik
Enhancing the performance of supercapacitors by optimizing electrode/electrolyte interface
16H30  Dr Chandrasekaran
Future of electrochemical capacitors
17H10  Conclusions
18H00  Shuttle departure to Tours

CONVENORS
Dr Satyajit Phadke
LE STUDIUM RESEARCH FELLOW
FROM Customized Energy Solutions, India
IN RESIDENCE AT: PCM2E, Tours – EA 6299 - University François-Rabelais of Tours

Dr Chandrasekaran
LE STUDIUM RESEARCH FELLOW
FROM India
IN RESIDENCE AT: PCM2E, Tours – EA 6299 - University François-Rabelais of Tours

Pr Mériden Anouti
PCM2E, Tours – EA 6299 - UniversityFrançois-Rabelais of Tours

CONTACT
Dr Aurélien Montagu
Scientific Relations Manager
+33 2 38 21 14 86
aurelien.montagu@lestudium-ias.fr

LE STUDIUM
Leire Valley Institute for Advanced Studies
www.lestudium-ias.fr
1, rue Dupanioup • 45000 Orléans • France