

Hydrogen Nancy 2021

Title: Electrochemical Systems for microgrid applications					
Day	July 5 th	July 6 th	July 7 th		July 8 th
8.30 am	Introduction (Dr. J. Mainka, UL) Bronkhorst Talk	PEM Fuel Cells - fundamentals (Prof. M. Chatenet, LEPMI) Duration: 8.30 am – 9.30 am (1h)			
8.45 am					
9 – 10.30 am (1h30)	Techno-economical challenges of H₂ microgrid applications (Dr. L. Antoni, member of FCH 2 JU governing board, CEA-LITEN)	PEM Fuel Cells – focus on electrocatalysts (Prof. V. Di Noto, UNIPD) Duration: 9.30 – 10.30 am (1h)	Power electronics challenges related to hydrogen technologies (Dr. T. Boileau, UL)	Flow batteries (Dr. M. Cazot, Kemiwatt)	
Coffee break					
11 – 12.30 am (1h30)	Management of electric grids (Prof. Bertrand Cornélusse, ULG)	PEM Electrolyzer (Prof. F. Maillard, LEPMI)	Fuel cell – supercapacitor hybridization (Prof. F. Lopicque/ Dr. C. Bonnet - UL)	H₂ microgrid applications for marine technologies (Prof. M. Zadeh, NTNU)	
Lunch break					
1.30 - 3 pm (1h30)	Power electronic management for microgrid applications (Prof. S. Pierfederici, UL)	H₂ and electrochemical storage (Dr. G. Sdanghi, CEA/Dr. M. Urbain, UL)	Workshop on microgrid and FC management systems (Dr. S. Pang/Dr. S. Benahmed?, UL)	Workshop on numerical study on FC-SC hybridization (Dr. J. Dillet, UL)	H₂ microgrid applications for aerospace technologies (Dr. S. Abbou, Safran)
3.30 – 5 pm (1h30)	Poster session I	Poster session II			Quizz (Kahoot!) (Dr. J. Mainka/Dr. M. Urbain/Dipl. Ing. H. Demaie, UL)