

International Summer School - HYDROGEN Nancy 2025 - <i>Materials & Transfer Phenomena in H2 Technologies</i>								
Day/Venue	Monday 7th (FST – Amphi 3)			Tuesday 8th (FST – Amphi 3)	Wednesday 9th (FST – Amphi 3)	Thursday 10th (FST – Amphi 3)	Friday 11th (FST – Amphi 3)	
			Chair:	Giuseppe SDANGHI	Julia MAINKA	Julia MAINKA	Giuseppe SDANGHI	
			8:30 – 9:30	Fuel cell & Electrolyzer: fundamentals of electrochemistry and transfer phenomena (M. Chatenet, LEPMI)	Pitch presentation III	HYCar Project: from technical aspect of fuel cell- supercapacitors source in a car to is environment (F. Lapicque, LRGP)	Membrane for fuel cells/electrizers: state of art & issues (C. Iojoiu, LEPMI)	
			9:30 – 10:30	Electrode Materials (F. Micoud, CEA Liten)		Mechanical behavior and damage of materials in low and high pression hydrogen tanks (A. Maynadier, FEMTO-ST)	NMR techniques for studying transport phenomena in ionomer membranes (J-C. Perrin, LEMTA)	
11:00	Reception & Registration		10:30 -11:00	Coffee break				
			11:00 – 12:00	Impedance Spectroscopy as tool to characterize transfer phenomena (J. Mainka, LEMTA)	Visit of HY2Car Platform	Carbon materials for H2 storage and compression: state-of-the- art and issues (G. Sdanghi, LEMTA / V. Fierro, IJL)	The role of hydrogen in the future energy system, an economic perspective (C. Mégy, CEA I-tésé)	
12:00 – 13:30	Lunch Buffet		12:00 – 13:30	Lunch break				
Chair:	Giuseppe SDANGHI		Chair:	Heathcliff DEMAIE	City tour	Visit of LEMTA Platform & Workshop		
13:45 – 14:00	Opening Session <i>(head of the LEMTA)</i>		13:30 – 15:30	Pitch presentation I				
14:00 – 15:30	LEMTA presentation <i>(Julia Mainka, LEMTA)</i>							
	FCLAB and FEMTO-ST presentation <i>(David Bouquain, Femto-ST)</i>							
	Strategies for low-carbon hydrogen development: main objectives, and innovations addressed by the “National Research Program ” PEPR-H2 (H. Burlet , CEA)							
15:30 – 16:00	Coffee break		15:30 – 16:00	Coffee break		Coffee break		
16:00 – 17:00	Development of Hydrogen trains & Fuel Cell for railway Applications (M. Daoudi,Alstom)		16:00 – 17:00	Pitch presentation II		Visit of LEMTA Platform & Workshop		
17:00	Welcoming COCKTAIL (17h)							Gala Dinner (19h30)