MULTIDISCIPLINARY AND INTERNATIONAL SUMMER SCHOOL

BESANÇON, JULY 2022

MATERIALS AND PROCESSES FOR HYDROGEN COMPONENTS

Programme prévisionnel

Registration and more information on https://events.femto-st.fr/H2_SummerSchool_Besancon2022/en

Title	Matariala far usa in sausas hudusaan antivanmenta			
	Materials for use in severe hydrogen environments			
Day	5th July	6th July	7th July	8th July
8:30 AM	Welcome	Professor Christine BLANC	FEMTO ST Laurent LARGER	
9:00 AM	IUT Anne-Laurence FERRARI	Aluminium alloys and hydrogen embrittlement	Presentention of the Institute	IR CEA HDR Olivier GILLIA
9:30 AM	IUT/FEMTO ST Anne MAYNADIER & David CHAPELLE	Ass. professor Grégory ODEMER Effect of hydrogen on the mechanical and	CEA Laurent BRIOTTET	Hydride breathing and its mechanical consequences on the tank
10:00 AM	COFFEE BREAK	electrochemical properties of a nickel-based superalloy	Hydrogen fracture of metal alloys in a gaseous environment	·
10:30 AM	Pierre SERRE-COMBE & Thierry PRIEM CEA	COFFEE BREAK		
11:00 AM	On the road to hydrogen	CEA Thierry LAGUIONIE	Hugo FARIA Invited Lecturer (University of Aveiro)	DR CNRS Patricia DE RANGO
11:30 AM	Professor Dominique PERREUX	Manufacturing processes for type IV gaseous hydrogen vessels	(to be completed)	(to be completed)
12:00 PM	From the lab to the MAHYTEC adventure			
12:30 PM	LUNCH			
1:30 PM	Professor Jean-François GERARD	DR CNRS Fermin CUEVAS	Workshop I et II	Ass. Professor Yann CHARLES
2:00 PM	Polymers for production, transport, storage, and conversion of hydrogen: A review of considered	Fundamental properties of metal hydrides for reversible storage at room temperature; applications to solid gas storage for Fuel Cell		Implementation of finite element simulations of hydrogen transport and trapping in metallic
2:30 PM	, •	application and electrochemical storage for Ni- MH battery application.		structures under complex thermomechanical loading
3:00 PM	COFFEE BREAK			
3:30 PM				Clasura
4:00 PM	Poster Session I	Poster Session II	Workshop II et I	Closure Poster Rewards
4:30 PM 5:00 PM				
3.00 P 101				





