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Workshop 2013

"INTEGRATING NUMERICAL AND EXPERIMENTAL APPROACHES FOR THE DESIGN OF NEXT GENERATION FUEL CELLS"

TIME SLOT	ARGUMENT	SPEAKER
8:30/9:00	Registration	
9:00/9:15	Welcome and introduction	Angelo Moreno
9:15/9:45	Interactive Research Methodologies in Microscale Two-Phase Flow and Heat Transfer	John Thome (EPFL)
	MICROSCOPIC MECHANISMS	
9:45/10:15	Advanced experimental techniques for identifying fundamental mechanisms and processes (PEM)	Gérard Gebel (CEA)
10:15/10:45	Advanced modelling tools for identifying fundamental mechanisms and processes (SOFC)	Vitaliy Yurkiv (DLR)
10:45/11:00	Coffee Break	
	STACK BEHAVIOUR	
11:00/11:30	Impedance Spectroscopy as a Diagnosis Tool for Stacks and Systems (SOFC)	André Leonide (KIT-Siemens)
11:30/12:00	Advanced numerical tools for diagnosing stack behaviour and mechanisms (PEMFC & MCFC & SOFC)	Elisabetta Arato (Uni Genoa)
12:00/12:30	Synergy of simulation and experimentation of stack behaviour (SOFC)	Michael Lang (DLR)
12:30/14:00	Lunch	
	SYSTEM CONTROL AND PRODUCT DEVELOPMENT	
14:00/14:30	Experiment design and data-based SOFC temperature estimation for system applications	Antti Pohjoranta (VTT)
14:30/15:00	Fuel cell modeling and validation from the stack to the system. Integration into co-simulation phases.	Mathias Gerard (CEA)
15:00/15:30	Synergy of simulation and experimentation in Product Industrialization	Murat Peksen (FZJ)
15:30/16:00	Coffee Break	
16:00/17:30	Round Table discussion	Valentina Vetere
17:30	Close of Workshop	

European Fuel Cell conference&exhibition