Innovative MEthods of Separated Flow CONtrol in Aeronautics

Opening Lecture Series – "Flow Control"[1]

23 - 24.04.2012

Instytut Maszyn Przepływowych PAN, Fiszera 14, Gdańsk, Auditorium

Day 1 – 23.04.2012		
11:20 – 13:00	L1-1. Flow control overview	P. Doerffer
	L1-2. Air Jet Vortex Generator simulation, optimization and application to flow control	P. Flaszynski
	L1-3. Air Jet Vortex Generator application to shock induced separation control	R. Szwaba
	Networking Break	
14:30 – 16:30	L2-1. An overview of Structural Health Monitoring	W. Ostachowicz
	L2-2. Non-contact measurements of vibrations	P. Malinowski
	L2-3. Investigation of piezoelectric actuator characteristics used for the synthetic jet flow control	R. Rimasauskiene
	Disscussion	
16:30	Visit to the laboratory of IMP PAN	

Day 2 – 24.04.2012		
09:00 – 11:00	L3-1. Introduction to Rotorcraft Flight: content, objectives, method of delivery, schedule, assessment, study material, textbooks	G. Barakos
	L3-2. Broad introduction to rotorcraft	G. Barakos
	L3-3. Rotorcraft configurations	G. Barakos
	L3-4. Rotor in Hoover	G. Barakos
	Networking Break	
11:15 – 13:00	L4-1. Flow control - preliminary design of synthetic jet actuator	M. Matejka
	L4-2. Numerical simulation and experimental validation of a synthetic jet actuator for active flow control	M. Kurowski
	L4-3. Multi-physics co-simulation platform	D. Sabbatini
	Disscussion	

[1] The event is organized by Instytut Maszyn Przepływowych Polskiej Akademii Nauk within the 7th Framework Programme PEOPLE 2010 Work Programme Marie Curie Actions - Initial Training Network, project acronym IMESCON