XX SYMPOSIUM ON MEASURING TECHNIQUES IN TURBOMACHINERY

FINAL PROGRAM

Thursday 23rd, 14.00 – 16.00
Session 1: Experimental methods and Test rigs
Session chair: Tolga Yasa, VKI

On a Sliding Data Technique of Traversing Probe Measurements
Milan Matejka, Pavel Safarik, Martin Luxa, David Simurda
Affiliation: Czech Technical University in Prague, Academy of Science of the Czech Republic

Experimental Evaluation And Analytical Modelling Of The Pressure Loss Through A Compressor Cascade Operating At Highly Negative Incidence
Cornelia Rülke, Alexandros Terzis, Pavlos K. Zachos, Vassilios Pachidis and Anestis Kalfas
Affiliation: Cranfield University, Ecole Polytechnique Fédérable de Lausanne, Aristotle University of Thessaloniki

Low Speed Testing: A New Multstage Axial Compressor Facility
Vasudevan Kanjirakkad, Antoine Godard, John Longley, Howard Hodson
Affiliation: Whittle Lab.

Test rig for organic vapour: design and simulation of operation
Andrea Spinelli, Matteo Pini, Vincenzo Dossena, Paolo Gaetani, Carlo Osnaghi
Affiliation: Politecnico di Milano

Thursday 23rd, 16.00 – 16.30: Coffee break

Thursday 23rd, 16.30 – 17.30:
Session 2: Novel Instrumentation
Session chair: Pavel Safarik, T.U. Prague

Dynamic probe for the measurement of acoustic pressure in aero-engines
Karsten Knobloch and Friedrich Bake
Affiliation: DLR

Heat Transfer Measurements in a Turbine Cascade: Taking Advantage of The Thermal Behaviour of a PSP Sensor
M. Jonsson, P. Ott
Affiliation: Ecole Polytechnique Fédérable de Lausanne

Thursday 23rd, 20.00: Symposium Dinner
Friday 24th, 9.00 – 10.00

Session 3: Pressure probe development  
*Session chair: Lorenzo Toni, GE-OGTL*

On the development of a 7-sensor fast response probe for wind energy application  
M. Mansour, G. Kocer, C. Lenherr, N. Chokani, R.S. Abhari  
Affiliation: ETH Zurich

On the capability of fast response pressure probes to measure turbulence kinetic energy  
Giacomo Persico, Vincenzo Dossena, Paolo Gaetani  
Affiliation: Politecnico di Milano

Friday 24th, 10.00 – 10.30: Coffee break

Friday 24th, 10.30 – 11.30  
Session 4: Flow visualization  
*Session chair: Michel Mansour, ETHZ*

Development of Oil Dot Visualization to Measure the Shear Stress  
G. Bonfanti, T. Yasa, S. Lavagnoli, G. Paniagua  
Affiliation: VKI, Politecnico di Milano

Application of Oil and Dye Flow Visualization in Turbomachinery Flows  
Alexandros Terzis, Pavlos K. Zachos, Bernard Charnley and Anestis I. Kalfas  
Affiliation: Cranfield University, Ecole Polytechnique Fédérale de Lausanne, Aristotle University of Thessaloniki

Friday 24th, 11.30-12.30: Visit to the Fluid - Machinery Laboratory (LFM)

Friday 24th, 12.30-13.00: Symposium closure

Friday 24th, 13.00-14.00: Lunch

Friday 24th, 14.00-15.00: Visit to the Large-scale wind tunnel of the Politecnico di Milano