

# XXII BIENNIAL SYMPOSIUM ON MEASUREMENT TECHNIQUES IN TURBOMACHINERY

**Thursday 4th**

8:30 - 9:15 Registration

9:15 Welcome to the XXII SMTT

## Session 1 (heat transfer)

9:30 Alexandros Terzis

*Description of relatively complex flow structures using locally resolved heat transfer measurements*

10:00 Roderick Lubbock

*Transient convection calibration of heat transfer gauges for high enthalpy flows*

10:30 Matthew Collins

*New technique for the fabrication of miniature thin film heat flux gauges*

11:00

Cafe break

## Session 2 (pressure and velocity)

11:30 Fabrizio Fontaneto

*Experimental methodology for the performance assessment of a transonic ultra-low aspect ratio centripetal turbine stator*

12:00 Edouard Salze

*High frequency calibration of wall-pressure sensors*

12:30 Pavel Safarik

*Data reduction method for steam flow fields*

13:00 Lunch at ECL

## Session 3 (rig design)

14:30 Frederic Heidinger

*Development and commissioning of a new turbocharger test facility*

15:00 Johan Dahlqvist

*Test turbine instrumentation for cavity purge investigations*

15:30 David Šimurda

*Measurements on supersonic turbine cascades - Methodical approach.*

16:00 Svilen S. Savov

*Novel high rotational reynolds number test facility for the investigation of rotor-stator cavity flows*

16:30 Discussions

19:30

Gala Dinner

## **Friday 5th**

### **Session 4 (uncertainty)**

- 10:00 Sergio Lavagnoli  
*Uncertainty analysis of adiabatic wall temperature in turbine experiments*
- 10:30 Georgios Stefopoulos  
*An uncertainty propagation method for pressure and species concentration measurements*

11:00 **Cafe break**

### **Session 5 (non-intrusive)**

- 11:30 Dennis Asche  
*Particle concentration and velocity measurements in a cascade wind tunnel by means of L2F*
- 12:00 Ulrich Hartmann  
*Application of the background-oriented schlieren method for the analysis of an engine's exhaust jet*
- 12:30 Philipp Mattern  
*Analysis of flow phenomena within the side channel of a regenerative pump by means of HS-SPIV and POD*

13:00 Lunch at ECL

### **Session 6 (Rig and probe)**

- 14:30 additional paper 01
- 15:00 additional paper 02
- 15:30 Closing session
- 16:00 Visit of the LMFA

■

■

■

■

