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Technical program

	Monday July 8th	Tuesday July 9th	Wednesday July 10th	Thrusday July 11th	Friday July 12th
8:45 - 10:00	Registration 8:45-9.30 Opening 9:30-10:00	Keynote K4 *Sala Rossa*	Session W1 *Sala Rossa*	Keynote K5 *Sala Rossa*	Session F1 *Sala Rossa*
10:00 - 10:30	Welcome reception	Coffee break	Coffee break	Coffee break	Coffee break
10:30 - 11:45	Keynote K1 *Sala Rossa*	Session T1 *Sala Rossa*	Session W2 *Sala Rossa*	Session H1 *Sala Rossa*	Session I4 *Sala Rossa*
11:45 - 13:00	Keynote K2 *Sala Rossa*	Session T2 *Sala Rossa*	Session I1 *Sala Rossa*	Session I2 Session I3 *Sala Rossa*	Session F2 *Sala Rossa*
13:00 - 14:30	Lunch	Lunch	Lunch	Lunch	Closing ceremony
14:30 - 15:45	Session M1 *Sala Rossa*	TA1 *Sala Rossa* / TB1 *Sala Camino*	WA1 *Sala Rossa* / WB1 *Sala Camino*	Visit to DIEF Labs	
15:45 - 16:15	Coffee break	Coffee break	Coffee break		
16:15 - 17:30	Keynote K3 *Sala Rossa*	TA2 *Sala Rossa* / TB2 *Sala Camino*	WA2 *Sala Rossa* / WB2 *Sala Camino*		

- ☐ Keynote
- ☐ General interest
- ☐ Technical sessions
- ☐ Industry sessions
- ☐ Breaks

Leisure activities

DAY	TIME	ACTIVITY
Monday, July 8th	18:00	Opening reception
Tuesday, July 9th	Registration 8:45-9.30 Opening 9:30-10:00	Walkaround in the city center and wine tasting
Wednesday, July 10th	19:00	Florence sightseeing from the river by boat
Thursday, July 11th	Keynote K1 *Sala Rossa*	Social dinner

Sessions

Session #	Speaker	Title
		Keynotes
K1	Prof. Sergio Lavagnoli (VKI, BE)	Engine-representative Testing of High-Speed Low-Pressure Turbines
K2	Prof. Giacomo Persico (POLIMI)	The Design of Turbomachinery for Supercritical Carbon Dioxide Power Systems: Unprecedented Challenges and Novel Solutions
K3	Prof. Lorenzo Ferrari (UNIPI)	New challenges for turbomachinery in the green transition scenario
K4	Dr. Rainer Koch (KIT, DE)	Fuel injection in aircraft engines: Fundamentals and numerical prediction
K5	Dr. Florent Duchaine (CERFACS, FR)	Large-Eddy simulation of turbomachinery flow: from academic to industrial configurations
		Technical sessions
		Monday, July 8th
M1	Prof. D. Misul (POLITO)	A(I) optimal design using advanced CFD methods
		Tuesday, July 9th
T1	Dr. M. Carnevale (Univ. of Bath, UK)	Conjugate Heat Transfer modelling in co-rotating cavities
T2	Dr. A. Giusti (Imperial College,UK)	Electromagnetic control of reacting flows across the scales for transportation
TA1	Dr. T. Bacci (UNIFI)	Combustor-Turbine Interactions: exeprimental investigations
TA2	Prof. A. Andreini (UNIFI)	Combustor-Turbine Interactions: high-fidelity CFD investigations
TB1	Prof. M. Marconcini (UNIFI)	Centrifugal pump/compressors design methodologies
TB2	Dr. F. Balduzzi (UNIFI)	Turbocharger technology
		Wednesday, July 10th
W1	Prof. A. Andreini (UNIFI)	Challenges in the transition from fossil to hydrogen-based fuels in gas turbines
W2	Prof. R. Pacciani (UNIFI)	Numerical modeling of transition in turbomachinery
WA1	Lorenzo Pinelli (UNIFI) Francesco Poli (UNIFI)	Turbomachinery aeromechanics
WA2	Lorenzo Pinelli (UNIFI) Francesco Taddei (UNIFI)	Turbomachinery aeroacoustics
WB1	Dr. A. Picchi (UNIFI)	Experimental methods for gas turbine heat transfer investigation
WB2	Prof. G. Ferrara (UNIFI)	Instabilities in centrifugal compressors: the case of vaneless diffuser rotating stall
		Thursday, July 11th
H1	Prof. S. Salvadori (POLITO)	Advanced methods for numerical modelling of gas turbine cooling
		Friday, July 12th
F1	Prof. R. Pacciani (UNIFI)	Machine learning for data driven turbulence and transition modeling in turbomachinery
F2	Prof. Alessandro Bianchini (UNIFI)	Recent development in wind turbine technology and research
		Industry sessions
I1	Antonio D' Ettole (AvioAero)	Avio Aero – The technology road map
I2	ANSYS	CFD for turbomachinery - An industrial perspective
I3	Convergent Science	CFD for turbomachinery - An industrial perspective
I4	A. Scotti del Greco (Baker Hughes)	Introduction to gas turbine perfomance maps

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