



Technical program

	Monday, July 10th	Tuesday, July 11th	Wednesday, July 12th	Thursday, July 13th	Friday, July 14th
8:45 - 10:00	Registration (8:45-9:30) Opening (9:30-10:00)	K3	T6	T12	T15
10:00 - 10:30	Welcome reception	Coffee break	Coffee break	Coffee break	Coffee break
10:30 - 11:45	K1	K4	T7	T13 T14	T16
11:45 - 13:00	K2	I2	I3	I4	T17
13:00 - 14:30	Lunch	Lunch	Lunch	Lunch	Closing ceremony
14:30 - 15:45	I1	T2 T3	T8 T9	Visit to DIEF Labs	
15:45 - 16:15	Coffee break	Coffee break	Coffee break		
16:15 - 17:30	T1	T4 T5	T10 T11		

Keynote Technical session Industry session Breaks

Leisure activities

DAY	TIME	ACTIVITY
Monday, July 10th	17:30	Opening reception
Tuesday, July 11th	18:30	Walkaround in the city center and wine tasting
Wednesday, July 12th	18:00	Visit to Museo Opera del Duomo (not included)
Thursday, July 13th	20:30	Social dinner



Sessions

Session #	Speaker	Title	Room
Keynotes			
K1	Prof. T. Sattelmayer (TU Munich, D)	Challenges in the Transition from Fossil Fuel Combustion to Renewables in Gas Turbines.	
K2	Prof. M. Casey (PCA Engineers Limited, UK)	Radial compressor design: it all starts with velocity triangles	
K3	Prof. M. Polanka, Jay Rutledge (AFIT, USA)	Scaling of Film Cooling Experiments Utilizing the Advective Capacity Ratio	
K4	Prof. A. Nix (West Virginia Univ., USA)	Rotating Detonation Combustors	
Technical sessions			
T1	Dr. A. Bianchini	Recent developments in wind turbine technology and research	
T2	Dr. A. Giusti (Imperial College, UK)	Electromagnetic control of reacting flows across the scales for sustainable transportation	
T3	Prof. M. Marconcini	Centrifugal pumps/compressors performance, design and optimization	
T4	Prof. A. Andreini	Multi-physics and multi-scale modelling of gas turbines components	
T5	Dr. F. Balduzzi	Turbocharger technology	
T6	Prof. B. Facchini	Combustor Turbine interactions	
T7	Dr. M. Carnevale (Univ. of Bath, UK)	Uncertainty quantification in computational fluid dynamics for turbomachinery	
T8	Dr. F. Poli	Turbomachinery aeromechanics: aerodynamically induced vibrations	
T9	Dr. T. Bacci	Experimental methods for gas turbine heat transfer investigation	
T10	Dr. L. Pinelli	Turbomachinery noise: numerical methods and experimental techniques	
T11	Dr. L. Romani	Dynamic pressure measurements in turbomachinery applications: the case of vaneless diffuser rotating stall	
T12	Prof. M. Marconcini	The role of turbulence transition in turbomachinery aerodynamics	
T13	Dr. R. Da Soghe (Ergon Research, IT)	Secondary air systems: review and applications	
T14	Dr. S. Salvadori (POLITO, IT)	Advanced turbomachinery applications	
T15	Dr. A. Scotti Del Greco (Baker Hughes, IT)	Introduction to gas turbine performance maps	
T16	Prof. R. Pacciani	Numerical modeling of transition in turbomachinery	
T17	Prof. Davide Lengani (UNIGE, IT)	Modal decomposition of turbomachinery data: application to fluid dynamics identification and loss decomposition	
Industry sessions			
I1	Raul Vazquez-Diaz (Rolls-Royce, UK)	Ultra-high by-pass ratio engine limits and perspectives	
I2	Andrea Milli (GE Aerospace, D)	Propulsion efficiency, hybrid-electric and hydrogen-powered aircraft: the new challenges in turbomachinery design	
I3	Francesco Cangioli (Baker Hughes, IT)	The role of compression in new energy solutions - the contemporaneity of thermodynamic	
I4a	Min Xu (Ansys Inc)	Maximizing Turbine Efficiency: Harnessing the Power of the Adjoint Method	
I4b	Achuth Nair (Convergent Science)	CONVERGE Latest Advancements in Rotor Systems and Wind Energy Simulations	

Day	Venue	Rooms
10 th -14 th	Polo Didattico Capponi	

