

IGTC2023 Technical Program Sunday November 26, 2023

Sakura

17:45-20:00 SuWREvent

Swan

Welcome Reception

IGTC2023 Technical Program Monday November 27, 2023

Annex	C-1	C-2	E	F	G	H	Sakura
09:00-09:15 MoOP1 Annex Opening Remarks							
09:15-10:25 MoPL1 Annex Plenary Lecture - Prof. Toshinori Watanabe, Department of Aeronautics and Astronautics, the University of Tokyo - towards Green Energy Era - Technology Development in Japan -							
10:55-12:10 MoAM11 Annex Combustion, Fuel and Emissions: Hydrogen and Ammonia (1)	10:55-12:10 MoAM12 Room C-1 Heat Transfer: Cooling (1)	10:55-12:10 MoAM13 Room C-2 Structure and Dynamics (1)	10:55-12:10 MoAM14 Room E Small Gas Turbine and Turbochargers (1)	10:55-12:10 MoAM15 Room F Aerodynamics and Design: Axial Compressors (1)	10:55-12:10 MoAM16 Room G Steam Turbines (1)	10:55-12:10 MoAM17 Room H Cycle Innovation (1)	
13:30-14:30 MoKL1 Annex Keynote Lecture - Prof. Agustin Valera-Medina, College of Physical Sciences and Engineering, Cardiff University - Use of Ammonia Blends for Zero Carbon Gas Turbine Power			13:30-14:30 MoKL4 Room E Keynote Lecture - Prof. Tekn. Dr. Damian Vogt, ITSM, Institute of Thermal Turbomachinery and Machinery Laboratory, University of Stuttgart - Exploring the Potential of Aeromechanical Optimization of Turbomachinery				
14:45-16:25 MoPM11 Annex Combustion, Fuel and Emissions: Hydrogen and Ammonia (2)	14:45-16:25 MoPM12 Room C-1 Heat Transfer: Cooling (2)	14:45-16:25 MoPM13 Room C-2 Structure and Dynamics (2)	14:45-16:25 MoPM14 Room E Small Gas Turbine and Turbochargers (2)	14:45-16:25 MoPM15 Room F Aerodynamics and Design: Axial Compressors (2)	14:45-16:25 MoPM16 Room G Steam Turbines (2)	14:45-16:25 MoPM17 Room H Cycle Innovation (2)	
16:40-17:55 MoPM21 Annex Combustion, Fuel and Emissions: Hydrogen and Ammonia (3)	16:40-17:55 MoPM22 Room C-1 Heat Transfer: Cooling (3)	16:40-17:55 MoPM23 Room C-2 Structure and Dynamics (3)	16:40-17:55 MoPM24 Small Gas Turbine and Turbochargers (3)	16:40-17:55 MoPM25 Room F Aerodynamics and Design: Axial Compressors (3)	16:40-17:55 MoPM26 Room G Aerodynamics and Design: Centrifugal Compressors (1)	16:40-17:55 MoPM27 Room H Cycle Innovation (3)	

IGTC2023 Technical Program Tuesday November 28, 2023

Annex	C-1	C-2	E	F	G	H	Sakura
09:00-10:10 TuPL1 Annex Plenary Lecture - Dr. Mark Hardy, Engineering Fellow and Corporate Specialist - Nickel Alloys Materials, Hot End Centre of Excellence, Rolls-Royce - Material Challenges and Solutions for Modern Gas Turbines							
10:30-12:10 TuAM11 Annex Combustion, Fuel and Emissions: CFD (1)	10:30-12:10 TuAM12 Room C-1 Testing Technologies	10:30-12:10 TuAM13 Room C-2 Aircraft Engines (1)	10:30-12:10 TuAM14 Room E Aerodynamics and Design: CFD and Modelling (1)	10:30-12:10 TuAM15 Room F Aerodynamics and Design: Axial Compressors (4)	10:30-12:10 TuAM16 Room G Aerodynamics and Design: Centrifugal Compressors (2)	10:30-12:10 TuAM17 Room H Materials and Manufacturing Technologies (1)	
13:30-14:30 TuKL1 Annex Keynote Lecture - Prof. Richard Sandberg, Department of Mechanical Engineering, Faculty of Engineering and IT, the University of Melbourne - Advancing Turbomachinery Technology: The Role of High-Fidelity Simulation and Machine Learning			13:30-14:30 TuKL4 Room E Keynote Lecture - Dr. Kyoko Kawagishi, Superalloys and High Temperature Materials Group, Design and Producing Field, Research Center for Structural Materials, National Institute for Materials Science - Development of Advanced Ni-Base Single Crystal Supera				
14:45-16:25 TuPM11 Annex Combustion, Fuel and Emissions: CFD (2)	14:45-16:25 TuPM12 Room C-1 Heat Transfer: Cooling (4)	14:45-16:25 TuPM13 Room C-2 Aircraft Engines (2)	14:45-16:25 TuPM14 Room E Aerodynamics and Design: CFD and Modelling (2)	14:45-16:25 TuPM15 Room F Aerodynamics and Design: Axial Compressors (5)	14:45-16:25 TuPM16 Room G Aerodynamics and Design: Data Driven Methods and Optimization (1)	14:45-16:25 TuPM17 Room H Materials and Manufacturing Technologies (2)	
16:40-17:55 TuPM21 Annex Combustion, Fuel and Emissions: Hydrogen and Ammonia (4)	16:40-17:55 TuPM22 Room C-1 Heat Transfer: Cooling (5)			16:40-17:55 TuPM25 Aerodynamics and Design: Axial Compressors (6)	16:40-17:55 TuPM26 Room G Aerodynamics and Design: Data Driven Methods and Optimization (2)	16:40-17:55 TuPM27 Room H Renewable Energy Technologies	

IGTC2023 Technical Program Wednesday November 29, 2023

Annex	C-1	C-2	E	F	G	H	Sakura
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09:00-10:10 WePL1
Annex
Plenary Lecture - Mr. Krishnakumar PG, Regional Director, Services Application Engineering, Asia, GE Gas Power - Gas Turbine Decarbonization

10:30-12:10 WeAM11 Annex Combustion, Fuel and Emissions: Combustion Instability	10:30-12:10 WeAM12 Room C-1 Heat Transfer: Cooling (6)	10:30-12:10 WeAM13 Room C-2 Heat Transfer: Numerical Simulation (1)	10:30-12:10 WeAM14 Room E Aerodynamics and Design: CFD and Modelling (3)	10:30-12:10 WeAM15 Room F Aerodynamics and Design: Axial Compressors (7)	10:30-12:10 WeAM16 Room G Aerodynamics and Design: Turbine (1)	10:30-12:10 WeAM17 Room H Industrial Gas Turbine and Power Systems
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14:00-15:30 WePD11
Annex
Panel Discussion Future Prospects of Gas Turbine Combustion towards Carbon Neutral Society [Part 1: Aircraft Gas Turbine]

15:45-17:15 WePD21
Annex
Panel Discussion Future Prospects of Gas Turbine Combustion towards Carbon Neutral Society [Part 2: Industrial Gas Turbine]

18:00-20:00
WeBNQEvent
Sakura
Banquet

IGTC2023 Technical Program Thursday November 30, 2023

Annex	C-1	C-2	E	F	G	H	Sakura
09:00-10:10 ThPL1 Annex Plenary Lecture - Prof. Harald H.-W. Funke, Institute for Gas Turbines and Aircraft Engines, Department Aerospace Technology, Aachen University of Applied Sciences - an Overview on past and Present Activities of Dry Low NOx Micromix Hydrogen Combustion							
10:30-12:10 ThAM11 Annex Combustion, Fuel and Emissions: Spray and Atomization	10:30-12:10 ThAM12 Room C-1 Heat Transfer: Cooling (7)	10:30-12:10 ThAM13 Room C-2 Heat Transfer: Numerical Simulation (2)	10:30-12:10 ThAM14 Room E Aerodynamics and Design: CFD and Modelling (4)	10:30-12:10 ThAM15 Room F Aerodynamics and Design: Axial Compressors (8)	10:30-12:10 ThAM16 Room G Aerodynamics and Design: Turbine (2)	10:30-12:10 ThAM17 Room H Aerodynamics and Design: Noise and Aeroelasticity (1)	
13:30-14:30 ThKL1 Annex Keynote Lecture - Dr. Dale Van Zante, Advanced Air Transport Technology (AATT) Project, NASA Glenn Research Center - NASA Aeronautics Sustainable Flight National Partnership							
14:45-16:25 ThPM11 Annex Control and Diagnostics (1)	14:45-16:25 ThPM12 Room C-1 Heat Transfer: Cooling (8)	14:45-16:25 ThPM13 Room C-2 Heat Transfer: Conjugate Heat Transfer (1)	14:45-16:25 ThPM14 Room E Aerodynamics and Design: CFD and Modelling (5)	14:45-16:25 ThPM15 Room F Aerodynamics and Design: Axial Compressors (9)	14:45-16:25 ThPM16 Room G Aerodynamics and Design: Turbine (3)	14:45-16:25 ThPM17 Room H Aerodynamics and Design: Noise and Aeroelasticity (2)	
16:40-17:55 ThPM21 Annex Control and Diagnostics (2)	16:40-17:55 ThPM22 Room C-1 Heat Transfer: Cooling (9)	16:40-17:55 ThPM23 Room C-2 Heat Transfer: Conjugate Heat Transfer (2)		16:40-17:55 ThPM25 Aerodynamics and Design: Axial Compressors (10)			
17:55-18:10 ThCL1 Annex Closing Remarks							