

8 th of July	Day 1		
8:00 - 9:30	Registration at Radisson Hotel & Suites		
9:30 – 10:00	Opening Ceremony		
10:00 – 10:50	Invited Lecture Dr.-Ing. Markus Fischer Flow Control as an Enabler for Civil Aircraft Design		
11:00 - 12:20	Axial Compressors/Fans 1 (1A)	Aeroacoustics (1B)	Multiphase/Reacting Flows 1 (1C)
11:00 - 11:20	ISAIIF-26 Numerical Simulation of Three-dimensional Flow of Axial Fan with Diffuser used for underground rail Xiaoyu X., Huashu D.	ISAIIF-36 Flow Field and Acoustic Absorption Performance of Perforated Plate with Bias Flow H. Hamakawa, K. Nakahara, A. Shimooka, E. Kurihara, H. Hayashi	ISAIIF-4 Comparative study on flow boiling characteristics of HFE-7000 in continuous and segmented multi-microchannels Dang C., Li J., Pang Q., Qi Z., Yin L.
11:20 - 11:40	ISAIIF-27 Research on the Matching Performance under Variable Speed and Blade Mounting Angle of Counter-rotating Axial Flow Fan Delei C., Huashu D.	ISAIIF-81 Design of a centrifugal fan with reduced flow noise H.J. Sung and S.J. Kim	ISAIIF-5 Analysis of the thermodynamic performance of the liquid-vapor separation condenser based on the condensate growth model in horizontal tube Ce L., Li J., Xuan Z., Chao D.
11:40 – 12:00	ISAIIF-38 Detailed Aerodynamic CFD Analysis of Compressor Airfoils in Cascade Lianfeng Y., D. Barsi, Yigang L., P. Zunino	ISAIIF-72 Implementation and validation of the FW-H acoustic analogy for helicopter rotor noise prediction T. Suresh, P. Flaszynski, O. Szulc	ISAIIF-17 Compressible, Turbulent, Multiphase Simulation with Phase Change for Underwater Propulsion A.R. Elizabeth, T. Jayachandran
12:00 – 12:20	ISAIIF-84 Active Stage Matching in an Axial Compressor by Zero-Net Mass-Flux Actuation L. Schwerdt, T. Willeke, O. Huxdorf, J.H. Krone, J. Friedrichs, J. Riemenschneider, H.P. Monner, J.R. Seume	ISAIIF-85 Acoustic characteristics and structure of supersonic jet radially discharged by convergent nozzle H. Suzuki, M. Endo, Y. Sakakibara	ISAIIF-29 Miniaturization of Bubbles by Shock Waves in Gas-Liquid Two-phase Flow in the Venturi Tube X. Jiang, T. Yasunobu, A. Nakamura, M. Shimazu
12:20 – 13:40	Lunch		
13:40 – 14:30	Invited Lecture Prof. Yamamoto Satoru Modeling and Simulation of Thermophysical Flows with Nonequilibrium Condensation		
14:40 – 15:40	Centrifugal Compressors (2A)	Transonic Flows 1 (2B)	Multiphase/Reacting Flows 2 (2C)
14:40 - 15:00	ISAIIF-8 Development of Diffuser Stall and Flow Structures in a Centrifugal Compressor with Vaned Diffuser M. Takahashi, N. Fujisawa, Y. Ohta	ISAIIF-25 Shock tube performance studies with helium and nitrogen using numerical simulation Ananthu J.P., N Asok Kumar.	ISAIIF-34 Thermal management evaluation for advanced aero-engines using detailed pyrolytic chemical reactions of hydrocarbon fuels Keyu G., Yu F., Yong C.
15:00 - 15:20	ISAIIF-47 Detection and Analysis of an Alternate Flow Pattern in A Radial Vaned Diffuser V. Moënne-Loccoz, I. Trébinjac, N. Poujol, P. Duquesne	ISAIIF-28 Preliminary Experiments for Density Measurements in Shock-Containing Microjets by Twyman-Green Interferometers Y. Kimura, S. Sugawara, S. Nakao, Y. Miyazato, Y. Ishino	ISAIIF-53 Study of Effect of Coaxial Air Stream on High-Pressure Water Jet M. Yaga, K. Yamakawa, T. Wakuta, H.D. Kim
15:20 – 15:40	ISAIIF-75 Quantitative Validation of CFD-Simulation Against PIV Data for a Centrifugal Fan M. Probst, M. Nial, B. Pritz, R. Stieglitz	ISAIIF-30 Numerical Study on the Performance Parameters of a Film Cooled LOX/GH2 Dual Bell Nozzle R. Martin, A. Suryan, H.D. Kim	ISAIIF-68 Large eddy simulation of cavitating flow using a homogeneous mixture model based on method of moments Y. Kunishima, S. Tsuda, S. Watanabe

8 th of July	Day 1		
15:40 – 16:05	Coffee Break		
16:05 - 17:05	Axial Compressors/Fans 2 (3A)	Supersonic Flows (3B)	Micro / Nano-Flows (3C)
16:05 - 16:25	ISAIIF-18 The research of compressor performance degradation in different blade surface roughness distribution forms Feng Q., Zhongyi W., Yaozhen G., Pietro Z., Yanhua W.	ISAIIF-56 Prediction of non-equilibrium homogeneous condensation in supersonic nozzle flows J. Edathol, H.D. Kim	ISAIIF-7 Flow Drag and Heat Transfer Characteristics in Circular Straight Pipe Flow of Nanosuspension as Heat Transport Medium S. Morita, K. Hirano, T. Nishi, Y. Hayamizu, T. Yamada, A. Horibe
16:25 - 16:45	ISAIIF-19 Aerodynamic optimization of a compressor cascade Feng Q., Zhongyi W., Tao S., D. Barsi, P. Zunino	ISAIIF-14 FSS-RSS Transition In Thrust Optimized Parabolic (TOP) Nozzles during Start-Up and Shut Down I. Mohamed, Rajesh G.	ISAIIF-65 Flow in Microchannel with Baffle W. Nishikori, M.M.A. Alam, M. Takao
16:45 – 17:05	ISAIIF-20 Effect of turbulence anisotropy to multi-stage copressor CFD N. Tani	ISAIIF-63 Characteristics of Self-Induced Flow Oscillation Caused by Underexpanded Supersonic Rectangular Impinging Jet T. Yasunobu, Y. Tanaka, Xin J., K. Komatani	ISAIIF-79 Non-stationary filtration in a scalar porous medium V. Sergeev, M. Petrichenko, E. Kotov, D. Nemova
17:15 –	Welcome Reception		
9 th of July	Day 2		
9:00 - 9:50	Invited Lecture Prof. Marius Swoboda The future of Turbomachinery... and the associated CFD. A Rolls Royce perspective.		
10:00 – 11:00	Boundary Layer (4A)	Gas Turbines 1 (4B)	Measurements 1 (4C)
10:00 - 10:20	ISAIIF-31 Investigation of Laminar Separation Bubble on Flat Plate With Adverse Pressure Gradient Yonglei Q., D. Barsi, D. Simoni, P. Zunino	ISAIIF-24 Passive method for leakage reduction in gas turbine F. Wasilczuk, P. Flaszynski, P. Doerffer, K. Marugi	ISAIIF-10 Measurement with a split-fiber probe in unsteady and reverting periodic flows J. Lepicovsky
10:20 - 10:40	ISAIIF-33 Large Eddy Simulation of the bypass transition process under different inlet turbulence conditions D. Barsi, C. Costa, D. Lengani, D. Simoni, M. Ubaldi	ISAIIF-35 On the influence of high turbulence on the convective heat flux on the high- pressure turbine vane LS89 T.S. Cação Ferreira, T. Arts, E. Croner	ISAIIF-22 Quantitative Measurements of Unsteady Transonic Diffuser Flows by Mach-Zehnder Interferometers H. Chidori, Y. Sakamoto, S. Nakao, Y. Miyazato
10:40 – 11:00	ISAIIF-61 Prediction of the laminar-turbulent transition for transonic SWBLI using e^N-method A.A. Sidorenko, P.A. Polivanov, A.I. Kutepova, A.V. Boiko	ISAIIF-37 Numerical Simulation of Sand erosion on CMC and Ni-based Superalloy Vanes and End Walls in High Pressure Turbine M. Ueno, H. Mamori, K. Fukudome, M. Yamamoto, M. Suzuki	ISAIIF-64 Synchronous measurement of pressure fluctuation in shock tunnel and visualization of pulse jet using shock tunnel T. Yasunobu, Y. Fujiwara, Xin J., M. Shimazu
11:00 – 11:25	Coffee Break		

9 th of July	Day 2		
11:25 – 12:25	Axial Compressors/Fans 3 (5A)	Transonic Flows 2 (5B)	Jets/Vortex Flow (5C)
11:25 - 11:45	ISAIF-39 Numerical analysis of compressor rotor operation in conditions of high air humidity S. Dykas, M. Majkut, K. Smółka	ISAIF-6 Exit Flow Field Patterns beyond the Limit Load Condition in a Hub Turbine Profile Cascade M. Luxa, J. Fürst, D. Šimurda	ISAIF-78 Study on supercritical CO₂ jet in a confined duct S. Raman, J. Edathol, M. Yaga, H.D. Kim
11:55 - 12:05	ISAIF-46 A Methodology for Design and Optimisation of Convolute Aero-engine Intakes S.N. Theodorou, P.K. Zachos, F. Tejero, D.G. MacManus	ISAIF-59 Effects of Streamwise Slots on Pseudo Shock Wave in an Isolator Vignesh Ram P.S., M. Yaga, H.D. Kim	ISAIF-80 Flow in a rotating annulus with asymmetric boundary conditions E. Tuluszka-Sznitko, T. Mullin
12:05 - 12:25	ISAIF-49 Flow control of radial migration along the rotor suction surface Dai Y., Jin D., Gui X., Xiao W.	ISAIF-16 Computational Study on Planar Nozzles with Different Divergence Angles Using OpenFOAM Prasanth. P.N., Abhilash. S., H.D. Kim	ISAIF-66 Collecting Performance in a Cyclone Separator with a Hemispherical Head M. Munekata, G. Kitamura, N. Tsuzaki, A. Tsurumaru, H. Yoshikawa, K. Ono, T. Watanabe
12:25 – 12:45	ISAIF-73 Flow field analysis of a multistage high pressure compressor during surge inception with a CFD zooming approach L. Rojda, G.N. Boum, I. Trébinjac, X. Carbonneau	ISAIF-50 Numerical simulation of transonic flows in wind tunnel test section P. Louda, J Příhoda	ISAIF-71 Vortex breakdown in swirling and non-swirling annular jets A. Bogusławski, K. Wawrzak, A. Tyliczszak
12:45 – 14:05	Lunch		
14:05 - 14:55	Invited Lecture Prof. Charles Hirsch Enhancing Reliability in Simulation Analysis and Optimization		
15:05 - 16:05	Axial Compressors/Fans 4 (6A)	Gas Turbines 2 (6B)	Hydraulic Machines (6C)
15:05 - 15:25	ISAIF-51 Numerical Investigation of the Effect of Hub Leakage Flow on a One-Stage Compressor Liang D., Jin D., Gui X.	ISAIF-42 Experimental and Numerical Analysis of a Cavity Mean-flow Interaction in Low Pressure Axial Flow Turbines D. Barsi, C. Costa, D. Lengani, D. Simoni, G. Venturino, P. Zunino	ISAIF-9 Cavitation Reduction on Hydro-Turbine R.S. Amano
15:25 - 15:45	ISAIF-60 A Study of Fan-Distortion Interaction within the Transonic Fan Stage Zhihui L., Juan D., Hongwu Z.	ISAIF-44 Influence of Meridian Flow Path and Loading Distribution on the Performance of Turbine Rear Frame Li S., Jin D., Gui X., Li J.	ISAIF-67 Blade number effects on the In-pipe hydro Savonius performance S.A. Payambarpour, N. Hasanzadeh, A.F. Najafi, F. Magagnato
15:45 - 16:05	ISAIF-70 Hybrid simulation of tip-leakage flow in an axial compressor C. Montsarrat, J. Marty, J. Boudet, E. Lippinois, X. Ottavy	ISAIF-45 Numerical Investigation of Cooling Effect of Different Ribs in an Intercooled Nozzle Guide Vane Wu W., Jin D., Gui X., Li J.	ISAIF-41 Non-Contact Laser Measurement of Water Jet Spreading Widths for Impulse Turbines (Effect of Internal Structure of Nozzle) Y. Nakanishi, Y. Funami
16:05 – 16:30	Coffee Break		

9 th of July	Day 2		
16:30 - 17:30	Supersonic Flow/Combustor (7A)	Heat Transfer 1 (7B)	
16:30 - 16:50	ISAIF-52 Interaction of the Counter Injected Jets with Supersonic Cross-Flow in Combustor Channel M.A. Goldfeld	ISAIF-13 Swirl flow and heat transfer through twisted square duct combined with multi-channel twisted tape P. Promthaisong, K. Wongcharee, V. Chuwattanakul, S. Eiamsa-ard	
16:50 - 17:10	ISAIF-62 Numerical Simulation of Pulse Detonation Engine K. Takeda, M.M.A. Alam, M. Takao	ISAIF-15 Cooling enhancement by swirling impinging air jet with liquid crystal technique P. Somravysin, A. Kaewpradap, K. Wongcharee, K. Nanan, K. Kunnarak, S. Eiamsa-ard	
17:10 - 17:30	ISAIF-58 The Flame Holding Model as a Means of Controlling Combustion Process in a Supersonic Combustor M.A. Goldfeld, A.V. Starov	ISAIF-2 Experimental research of the influence of pulsating impinging jet on heat transfer coefficient J. Telega, R. Szwaba	
10 th of July	Day 3		
9:30	Conference Tour – Malbork Castle http://www.zamek.malbork.pl/en		
20:00	Conference Dinner		
11 th of July	Day 4		
09:30 - 10:30	Turbines (8A)	Gas Turbines 3 (8B)	Measurements 2 (8C)
09:30 - 09:50	ISAIF-21 Numerical Analysis of the Influence of Tip Clearance on the Flow Field and Performance of Axial Hydraulic Turbine Wu Y., Liao D., Lin Q., Li L., Ye X.	ISAIF-54 Experimental Investigations Of Tip Leakage Flow Inside The Turbine Cascade Yangtao T., H.W. Ma	ISAIF-1 Numerical and experimental investigations of a synthetic jet actuator for active flow control M. Kurowski, R. Szwaba
09:50 - 10:10	ISAIF-77 Development of Suitable Cascade for Wave Powered Counter-rotating Impulse Turbine M. Takao, R. Sasaki, S. Okuhara, M.M.A. Alam, Y. Kinoue, M. Suzuki	ISAIF-57 Numerical study on the effect of upstream wake on purge flow in a linear turbine cascade Sushanlal B., Anish S.	ISAIF-43 Open Loop Low Speed Wind Tunnel with Streamline-Mouth Shape Inlet – Design and Testing R. Szwaba, K. Hinc, T. Ochrymiuk, Z. Krzemianowski
10:10 – 10:30	ISAIF-90 Simplified determination of vortex traces behind propeller windmills L. Kwapisz, J. Szantyr	ISAIF-69 Influence of Incidence Angle on Two-Dimensional Aerodynamic Performance of Ultra-Highly Loaded Turbine Cascade at Transonic Condition H. Tsujita, M. Kaneko	ISAIF-40 CFD analysis of multi-hole orifice flow meter, investigation of the relationship between pressure drop and mass flow rate A. Tomaszewski, M. Lackowski
10:30 – 10:55	Coffee Break		

11 th of July	Day 4		
10:55 – 12:15	Transonic/Supersonic (9A)	Multiphase/Reacting Flows 3 (9B)	Heat Transfer 2 (9C)
10:55 - 11:15	ISAIF-74 Computational analysis of a New Hypersonic Quiet Flow Nozzle DiviaHarshaVardini R.C., Rajesh G., Arul P.K.	ISAIF-55 Analytical model for the condensation mass and heat transfer characteristics of binary zeotropic mixtures Yongxin Z., Li J., Yong D., Chao D.	ISAIF-3 Study on the thermal management of Cylindrical Li-ion battery based on flow boiling in flexible microchannel cold plates Liting W., Li J., Zhoujian A., Qiao Y.
11:15 - 11:35	ISAIF-23 Numerical investigations of flow structure on transonic profile in wind tunnel M. Piotrowicz, P. Flaszynski	ISAIF-86 Visualization and Physical Interpretation of Geyser Boiling Phenomenon in Two-Phase Thermosyphons N.Y. Londoño Pabon, M.B.H. Mantelli	ISAIF-11 Heat transfer enhancement and pressure loss in a micro-fin tube installed with twisted tape S. Eiamsa-ard, P. Somravyisin, K. Wongcharee, V. Chuwattanakul, V. Kongkaitpaiboon
11:35 – 11:55	ISAIF-48 Effect of the geometry of laminar flow airfoil on the characteristics of transonic buffet P.A. Polivanov, A.D. Budovsky, A.A. Sidorenko	ISAIF-88 Air Purification from Toxic Volatile Compounds in Innovative Combustion Chamber M. Stajnke, P. Ziółkowski	ISAIF-12 Thermal performance evaluation of a solar air heater fitted with sinusoidal-wavy-baffle turbulators M. Rungsiyopas, P. Promthaisong, W. Noothong, P. Promvonge, V. Chuwattanakul, S. Eiamsa-ard
11:55 – 12:15		ISAIF-89 Modelling behaviour of a two-phase nitrous oxide mixture during emptying of a hybrid rocket oxidizer tank D. Kardaś, R. Kwidziński, J. Szymborski, M. Lubieniecki	ISAIF-32 CFD Simulation of Flow inside a Hybrid Decompression Heat Pump Dryer M.M. Shamsuddeen, D.A. Cha, S.C. Kim, Y.L. Kim, T. Kanemoto, J.H. Kim
12:20	Closing Ceremony		
12:40	Lunch		