

SYMKOM 2018 IMP² *

Date	Session	Time	Agenda		Remarks	
Thursday		9.00 – 12.00	Workshop - Olle Bergman <i>Room 224, Institute of Turbomachinery, building B13, TUL, Wólczańska 219/223</i>			
		11.30 – 12.30	Registration <i>TUL Sports and Education Centre "Sports Bay", 2nd floor, Politechniki 10</i>			
		12.30 – 13.50	Lunch			
		13.50 – 14.00	Opening of the Symposium			
	Plenary Session I – Energy Storage and Conversion	14.00 – 14.30	1	KICIŃSKI J.: <i>Quo Vadis Power Engineering? A Slow Transition from Centralised Power Generation to Distributed Power Generation and what about Poland?</i>		Opening lecture
		14.30 – 15.10	2	JAPIKSE D.: <i>Advances and Breakthroughs in Diffusers for Compressors and Pumps: A short history of diffusers for centrifugal machines</i>		Invited lecture
		15.10 – 15.25	3	MILEWSKI J., Futyma K., Szczeńiak A., Wołowicz M., Ziembicki G.: <i>Selected issues of the structures and parameters of supercritical CO₂ gas turbine cycles</i>		
		15.25 – 15.40	4	POLANSKY J.: <i>Thermodynamics cycle of gas-cooled fast reactor</i>		
		15.40 – 15.55	5	ALMUTAIRI A., Alhajeri H., Alenezi A., Al-Asousi M.: <i>Exergoeconomic Analysis for a Two-Shaft Industrial Gas Turbine Engine</i>		
		15.55 – 16.10	6	GAJ P., Kopania J.: <i>Influence of geometry of channel on the flow noise parameters</i>		
		16.10 – 17.00		Presentations of students research groups: GUST, Lodz Solar Team, Iron Warriors, CHaK		
	17.00 – 17.20	Coffee break				
	Plenary Session II – Measurement Methods/Experiment	17.20 – 18.00	7	HEYES A.: <i>Sensors for temperature and heat transfer measurement in extreme (high temperature) environments</i>		Invited lecture
		18.00 – 18.20	8	JAPIKSE D., DI BELLA F.: <i>An Analysis of an Advanced Compressed Air Energy System (CAES) Using Turbomachinery for Energy Storage and Recovery and for Continuous On-Site Power Augmentation as an Air Brayton Cycle</i>		
		18.20 – 18.35	9	ZARYANKIN A. E.: <i>To the question of a logarithmic velocity profile correspondence with the experimental data</i>		
		18.35 – 18.50	10	ANDREARCZYK A., Bagiński P., Żywica G.: <i>Test rig for the experimental investigation of a 3D printed turbochargers</i>		
		18.50 – 19.05	11	BAGIŃSKI P., Żywica G.: <i>Determination Of The Lift-off Speed In Foil Bearings Using Various Measurement Methods</i>		
	19.10 – 22.00	DINNER AT THE SPORTS BAY				

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Friday	Plenary Session III - Compressors	8.30 – 9.10	12	GRAVDAHL J. T.: <i>Active control of surge in compressors</i>	Invited lecture	
		9.10 – 9.25	13	LIŚKIEWICZ G., Jaeschke A., Kulak M.: <i>Phase portraits of numerical and experimental signals from surge in centrifugal compressor</i>		
		9.25 – 9.40	14	Ugryumova K. M., Meniailov I. S., TROFYMOVA I. O., Ugryumov M.L., Myenyaylov A. V.: <i>Law of Control Definition Method for Variable Guide Vanes of Multistage Axial Flow Compressor Under the Uncertainty of Input Data</i>		
		9.40 – 9.55	15	Kryłłowicz W., Kozanecki Z. Jr, GRAPOW F., Kantyka K.: <i>Modernization of centrifugal chlorine compressor</i>		
		9.55 – 10.10	16	ARSIRI V., Kravchenko O.: <i>Reconstruction of turbomachines on the basis of physical modeling, visualization of the flow structure and improvement of flow parts</i>		
		10.10 – 10.25	17	LOGAN A., Garcia D., Liśkiewicz G.: <i>Detection of Inlet Recirculation as an Early Indicator of Proximity to Instability in Centrifugal Compressors</i>		
		10.25 – 10.45	Coffee break			
	Plenary Session IV – Wind Energy/ Aerodynamics	10.45 – 11.25	18	MASSOUH F.: <i>Investigation of wind turbine wake and vortex development</i>	Invited lecture	
		11.25 – 11.40	19	LEHSER-PFEFFERMANN D., Häfele T., Rückert F.U., Griebisch J., Müller T., Joos F.: <i>Location-Optimized Rotor Design of Small Wind Turbines and Implementation Using Additive Hybrid Material</i>		
		11.40 – 11.55	20	TATA M., Dobrev I., Massouh F., Smaili A.: <i>Analysis of near wake generated downstream of a scaled horizontal axis wind turbine</i>		
		11.55 – 12.10	21	LIPIAN M., Wiklak P., Dobrev I., Karczewski M.: <i>Wind turbine operation in non-uniform inflow</i>		
		12.10 – 12.25	22	Kądrowski D., STĘPIEŃ M., Kulak M., Lipian M., Grapow F., Karczewski M., Raszewska D., Skalski R., Czarnecki J., Baszczyński P., Rogowski P.: <i>Integration of computer aided methods with experiment – fast track in small wind turbine development</i>		
		12.25 – 12.40	23	MIERZEJEWSKA P., Cieśliński A., Jodko D.: <i>Influence of the diffuser on the drag coefficient of a solar car</i>		
		12.40 – 14.00	Lunch			
		14.00 – 15.40	Industrial Panel			
		15.40 – 16.30	Coffee break			
		16.30 – 19.00	Visit to EC1 (meeting point – parking in front of the Sports Bay at 16.15)			
		19.30 – 22.00	DINNER AT THE KLUB SPADKOBIERCÓW RESTAURANT			

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Saturday	20.10. 2018 <i>Plenary Session V – Pumps, Turbines</i>	9.00 – 9.40	24	SCHIMA H.: <i>Special aspects of blood trauma in medical rotary pumps and the consequences for pump optimization</i>	Invited lecture
		9.40 – 9.55	25	BREŃKACZ Ł., Żywica G., Bogulicz M.: <i>Dynamic performance analysis of the rotor of a 30 kW ORC microturbine considering properties of aerodynamic gas bearings</i>	
		9.55 – 10.10	26	ŻYWICA G., Kaczmarczyk T. Z., Ilnatowicz E., Bagiński P., Andrearczyk A.: <i>Design and manufacturing of micro-turbomachinery components with application of heat resistant plastics</i>	
		10.10 – 10.25	27	LAMPART P., Witanowski Ł., Klonowicz P.: <i>Efficiency optimisation of blade shape in steam and ORC turbines</i>	
		10.25 – 10.40	28	RZĄDKOWSKI R., Rusanov R., Kubitz L., Szczepanik R.: <i>Flutter analysis of LP last stage steam turbine rotor blade before and after modernization</i>	
		10.40 – 10.55	29	Hoffmann S. P., RÜCKERT F. U., Theis D., Ruffino A. G., Pfeffermann D., Hübner D.: <i>A Software Tool for Automatic Geometry Generation of a Micro Turbine</i>	
		11.00 – 11.20	Coffee break		
	<i>Plenary Session VI – CFD Modelling/AOB</i>	11.20 – 12.00	30	VERSTRAETE T.: <i>Towards gradient-based multidisciplinary optimization of turbomachinery</i>	Invited lecture
		12.00 – 12.15	31	TKACZ E., Kozanecki Z., Łagodziński J.: <i>Development of journal foil bearing numerical models</i>	
		12.15 – 12.30	32	Tylman M., Kamiński W., OPARA B.: <i>Simulation of the salt water membrane distillation process using the Matlab software</i>	
		12.30 – 12.45	33	Dykas S., Majkut M., SMOLKA K., Stozik M., Chmielniak T., Staśko T.: <i>Numerical and Experimental Investigation of the Fan with Cycloidal Rotor</i>	
		12.45 – 13.00	34	TYFA Z., Obidowski D., Józwik K.: <i>Numerical analysis of the VAD outflow cannula positioning on the blood flow in the patient-specific brain supplying arteries</i>	
		13.00 – 13.15	35	STAJUDA M., Obidowski D., Karczewski M., Józwik K.: <i>Modified Virtual Blade Method for propeller modeling</i>	
		13.15 – 14.00	Results of the Young Researchers Competition Closing of the Symposium		
	14.00 – 15.30	Lunch			

* This programme may be subject to minor alteration