

12:30 - 13:30	Lunch (Mensa)				
TUESDAY, 5 September 2023					
Afternoon					
13:30 - 14:30	KEYNOTE SESSION II AUDIMAX (Chair: P. Oclon) Target-Controlling Principle of Local Thermal Resistance for Energy Saving and Storage Processes QIUWANG WANG Xi'an Jiaotong University, P. R. China				
14:30 - 15:00	Coffee Break (Hallways)				
	Parallel Session 1 BERLIN Chair: G. Marom	Parallel Session 2 HAMBURG Chair: G. Croce	Parallel Session 3 FRANKFURT Chair: H. Pabiou	Parallel Session 4 STUTTGART Chair: T. Grosan	Parallel Session 5 AACHEN Chair: Y. Alhendal
15:00 - 15:20	Paper 269: Large-Eddy Simulations of a Highly Diluted, Non-premixed Hydrogen Flame with Differential Diffusion <i>M.P. Ghofrani, P. Wollny, A. Kempf</i>	Paper 019: Experimental Investigation on Effect of Knurling on Condensation Heat Transfer Performance of Vertical Copper Tube <i>Jason Joy Poopady, Jyothish Abraham, Rajkumar M.R.</i>	Paper 036: Airborne Rotor-type Wind Turbine Performance Analysis by Three-Dimensional Rotating Mesh Unsteady RANS Simulation Method <i>Ergin Kükrer, Doğan Güneş</i>	Paper 044: Modeling of Filtration Processes with Arbitrary Shaped Particles Using an Immersed-Boundary-Method (IBM) <i>Kamil Braschke, Amin Zargaran, Florian Freese, Markus Bürger, Sebastian Burgmann, Uwe Janoske</i>	Paper 063: Applied Numerical Simulation of Thermodynamics and Fluid Flow in Metallurgical Plant Engineering <i>N. Vogl, F. Krause, A. Kemminger, H-J. Odenthal, M. Reifferscheid</i>
15:20 - 15:40	Paper 224: Comparative Analysis of Turbulence Models for Turbulent Premixed Combustion: A Hybrid Rocket Engine Case Study <i>N.Lewandowska, B. Ziegler, T. Krakowski</i>	Paper 104: Subcooled Boiling Heat Transfer Using a Semi-Mechanistic Wall Boiling Model <i>A. Khaware, V. Gupta, H. Puneekar, A. Ben Hadj Ali</i>	Paper 151: Effect of Blade Shape and Angle on the Performance Characteristics of a Wind Turbine and Additional Equipment <i>M. Jaszczur, M. Borowski, J. Halibart, K. Zwolińska-Gładys, P. Marczak</i>	Paper 080: A CFD Simulation Study on the Impact of Parametric Variations on Particle Dispersion during Sand Blasting <i>AHM Haidiezul, MS Dolah, C. Y. Khor, W. M. Faizal, M. H. M. Hazwan, M. Ahmad, M.A.M. Nawi</i>	Paper 070: A New Hybrid Approach to Predict the Solidification Process in A Continuous Casting Machine Taking Flow Effects into Account <i>T. P. Bui, M. Waldmann, F. Wietbüscher, M. Meinke</i>
15:40 - 16:00	Paper 284: Influence of Turbulence Modelling Approach on Characteristics of Premixed Jet Flames Doped with Ammonia <i>J. Jójka, N. Lewandowska, P. Czyżewski, R. Ślęfarski</i>	Paper 236: Systematic Assessment of Roughness Effect on Flow Characteristics in Minichannels <i>M. Pahlavanzadeh, S. Rulik, W. Wróblewski, K. Rusin</i>	Paper 074: CFD Simulation and Optimisation of the Efficiency of a Spiral tube Under Focused Beam by a Solar Dish <i>K. Mahdi, K. Bekrentchir, N. Bellel</i>	Paper 206: Improving the efficiency of thermal insulation of window panes - the use of transparent thin-layer insulation coverings filled with nanospheres <i>P. Motyl, D. Król, M. Patej, S. Poskrobko</i>	Paper 282: A CFD Model to Simulate Mould Filling and Solid-Liquid Phase Change during Aluminothermic Welding of Rails <i>Ravi Govindram Kewalramani, Ingo Riehl, Jan Hantusch, Tobias Fieback</i>
16:00 - 16:20	Paper 137: A Comparative Study on Flame Length using Numerical Analysis and Flame Visualization in Premixed Combustion <i>Y. B. Kim, E. J. Shin, W. Jung</i>	Paper 109: Dynamic Operation Modeling of Flat-Plate Pulsating Heat Pipes for Power Electronic Applications <i>R. Dreiling, P. Schreivogel, T. Nguyen-Xuan, T. Christ, F. di Mare</i>	Paper 172: Investigating Efficient Solar Absorber Designs <i>N. Bessanane, Y. Demagh, M. Si-ameur, M. Rebay</i>	Paper 244: High-Fidelity Simulation of Effective Heat Transfer in Stacked Spherical Particles <i>K. Redosado, A. Lyulin, B.J. Geurts</i>	Paper 020: CPU and GPU Computational Performance Comparison Applied to Autogenous Welding Simulation <i>E. J. G. Nascimento, E. S. Magalhães, A. M. Azevedo, L. E. S. Paes, A. F. M de Oliveira</i>
16:20 - 16:40	Paper 187: Proper Orthogonal Decomposition of Wall Heat Flux for Head-On Premixed Flame Wall-Interaction Across Turbulent Boundary Layers <i>Vishnu Mohan, Umair Ahmed, Nilanjan Chakraborty</i>	Paper 135: Accelerated Solution Methodology for 3D Hydrodynamic and Thermal Modeling of Grooved Heat Pipes with Complex Geometries <i>Gökay Gökçe, Barbaros Çetin, Zafer Dursunkaya</i>	Paper 087: Transition Flow Heat Transfer and Pressure Drop in a Uniformly Heated Inclined Solar Air Heater Fitted with Wavy Tapes <i>S. Bhattacharyya, D.K.Vishwakarma, M. K. Soni, S. Ghosh, A. C. Benim</i>	Paper 253: Experimental and Numerical Study of Sediment Scour under Impinging Vertical Jet <i>M. Baldi, M. Mendina, C. Chreties</i>	Paper 210: Asymptotic Fluid Flow and Energy Equations for Modeling the Drawing Process of Microstructured Optical Fibres <i>G. Luzi, B. Gatterinig, A. Delgado</i>
16:40 - 17:00	Paper 265: Incorporating the ITNFS efficiency function in Modeling of Flame-Generated Turbulence and Counter-Gradient Diffusion in Stagnating Turbulent Premixed Flames <i>A. Neche</i>	Paper 022: Relevance of Various Cavity Aspect Ratios to the Thermal Behavior of Natural Convection Heat Transfer for Water-Based Hybrid Nano fluid within A U-Shaped Enclosure <i>M. S. Asmadi, R. Md. Kasmani, Z. Siri, H. Saleh, S. Mt Aznam</i>	Paper 051: Dual Solutions for the Flow and Heat Transfer of Hybrid Nanofluid over a Rotating Disk with a Uniform Shrinking Rate in the Radial Direction <i>Rusya Iryanti Yahaya, Norihan Md Arifin, Ioan Pop, Fadzilah Md Ali, Siti Suzilliana Putri Mohamed Isa</i>	Paper 064: Duality Solutions in Boundary Layer Flow and Heat Transfer of SWCNT-MWCNT/Water Hybrid Nanofluids along Vertical Thin Needle with Effect of Suction <i>N. A. A. Samat, N. Bachok, N. M. Arifin</i>	Paper 270: Machine Learning Aided CFD Modelling of Compressible Flows with Phase Change <i>G. S. Mani Sakthi, L. Abu-farah, N. Germann</i>