

38th UIT Heat Transfer International Conference, 21 June 2021

Google Meet Room:	https://meet.google.com/bjz-iboy-yqs
09:00	Opening Cerimony
09:30	Keynote Lecture (G. Betta)
10:20	Break
10:30	Parallel technical sessions
11:45	Break
12:00	Parallel technical sessions

21st of June 2021 Parallel Technical Sessions Program Details

	<i>Technical Session 1: Computational fluid dynamic and heat transfer</i>	<i>Technical Session 2: Multi-phase fluid dynamics, heat transfer and interface phenomena</i>	<i>Technical Session 3: Heat transfer in energy systems and nuclear plant</i>
Google Meet Room:	https://meet.google.com/cin-rnhe-kyk	https://meet.google.com/osm-youo-ist	https://meet.google.com/wxm-apnt-nyk
Chairman:	O. Manca	A. Niro	M. Ciofalo
10:30	Direct computation of the self noise produced by airfoils in turbulent flows: impact of the wall heating. Falone Matteo, Università Politecnica delle Marche	Experimental analysis of steam condensation heat transfer coefficient in water pool at sub-atmospheric pressure. Pesetti Alessio, University of Pisa	Evaluation of the thermal-hydraulic performances of a once-through steam generator in nuclear fusion applications. Ciurluini Cristiano, Sapienza University of Rome
10:45	Three-dimensional MHD flow in moderate change ratio orifice. Melchiorri Lorenzo, Sapienza University of Rome	Numerical modelization of contact angle hysteresis of falling droplet under enhanced lubrication approximation. Suzzi Nicola, University of Udine	Transient analysis of OSU-MASLWR with RELAP5. Ciurluini Cristiano, Sapienza University of Rome
11:00	Thermo-fluid dynamic optimization of innovative building walls for 3D printing. Fragnito Andrea, University of Naples "Federico II"	Multi-scale framework and numerical treatment for soap film dynamics towards solar fuel production. Bergamasco Luca, Politecnico di Torino	Effect of non-condensable gas in steam condensation at sub-atmospheric pressure condition. Giambartolomei Guglielmo, University of Pisa
11:15	Coupled Geothermal Energy Simulations. Trombetta Vincenzo, University of Naples "Parthenope"	Mechanisms of dropwise condensation on aluminum coated surfaces. Tancon Marco, University of Padova	Analysis of an unmitigated 2-inch cold leg LOCA transient with ASTEC and MELCOR codes. Agnello Giuseppe, Univeristy of Palermo
11:30	Nmerical analysis of thermo-fluid problems in 3D domains by means of the RBF-FD meshless method. Zamolo Riccardo, University of Trieste	Adiabatic frictional pressure gradient during flow boiling of pure refrigerant R123zd and non-azeotropic mixtures R448A, R452A and R455A. Arcasi Alice, University of Naples "Federico II"	Cold Leg LBLOCA uncertainty analysis using TRACE/DAKOTA coupling. Agnello Giuseppe, Univeristy of Palermo
11:45	Break		
	<i>Technical Session 4: Computational fluid dynamic and heat transfer</i>	<i>Technical Session 5: Heat transfer in porous media - Micro and nano scale thermo-fluid dynamics</i>	
Google Meet Room:	https://meet.google.com/qpz-rvsz-wvo	https://meet.google.com/kih-pkzk-wpf	
Chairman:	A. M. Lezzi	P. Asinari	
12:00	Numerical simulation of a low Prandtl number flow with a four-parameters turbulence model through an explicit algebraic definition of Reynolds stress and turbulent heat flux. Barbi Giacomo, Alma Mater Studiorum - University of Bologna	Experimental analysis on latent thermal energy storage systems based on pure and copper foam-loaded PCMs. Falcone Morena, University of Bologna	
12:15	Numerical simulation of a low Prandtl number flow over a backward facing step with an anisotropic four-equation turbulence model. Giovacchini Valentina, Alma Mater Studiorum - University of Bologna	Experimental investigation of PCMs melting inside a periodic cellular structure. Diani Andrea, University of Padova	
12:30	A numerical approach to the fractional Laplacian operator with applications to quasi-geostrophic fows. Chierici Andrea, Alma Mater Studiorum - University of Bologna	Functionally-graded foams for volumetric solar receivers. Iasiello Marcello, University of Naples "Federico II"	
12:45	Evaluation of local discomfort in a fully monitored test room under radiant asymmetries through computational fluid dynamics. Fabiani Claudia, University of Perugia	Performance Evaluation Criteria for Triangular Microchannels with Smoothed Corners. Lorenzini Marco, University of Bologna	
13:00	Assessment of operating temperature within the new pavilion for slag management in Terni. Manni Mattia, CIRIAF, Perugia, Italy	Heat and mass transfer in solar passive distiller with high productivity and Marangoni effect-driven salt rejection. Morciano Matteo, Politecnico di Torino	

38th UIT Heat Transfer International Conference, 22 June 2021

Google Meet Room:	https://meet.google.com/bjz-jboy-yqs
09:00	Conference Opening
09:15	Parallel technical sessions
10:15	Break
10:30	Parallel technical sessions
11:30	Break
11:45	Poster Session
12:15	Closing Ceremony

22st of June 2021 Parallel Technical Sessions Program Details

	<i>Technical Session 6: Computational fluid dynamic and heat transfer</i>	<i>Technical Session 7: Multi-phase fluid dynamics, heat transfer and interface phenomena</i>	<i>Technical Session 8: Heat transfer in energy systems and nuclear plant</i>
Google Meet Room:	https://meet.google.com/mwo-ffgs-tbo	https://meet.google.com/pvc-medf-hhb	https://meet.google.com/ygd-fpvh-hgk
Chairman:	N. Massarotti	P. Di Marco	F. Arpino, G. Cortellessa
09:15	Convective heat transfer CFD analysis of forced flow through a half-stadium serpentine mini-channel at low Reynolds number. Corti Maria, Politecnico di Milano	Development of an innovative experimental apparatus for the investigation of start-up and dry-out processes in Pulsating Heat Pipes. Abela Mauro, Università di Pisa	Computational Model For The Estimation Of Thermo-Energetic Properties In Dynamic Regime Of Existing Building Components. Mastino Costantino Carlo, DICAAR University of Cagliari
09:30	The influence of Variable Geometry Control on a R290 Ejector Refrigeration System. Besagni Giorgio, Politecnico di Milano	Comparison of heat transfer process during selective and while body Newborn's therapeutic hypothermia - case report. Nowak Andrzej, Silesian University of Technology	Optimisation strategies for solar assisted heat pumps coupled to traditional thermal fields. Cavalletti Alessandro, University of Genova
09:45	Macroscopic model for porous media in oscillating flow for CFD applications. Di Meglio Armando, University of Naples "Parthenope"	Experimental Study on Single Loop Pulsating Heat Pipe at Operating Limit. Iwata Naoko, University of Parma	Urban-Scale Models for Energy Transition. Towards higher self-consumption and energy independence. Mutani Guglielmina, Politecnico di Torino
10:00	An Eulerian-Lagrangian approach for the CFD analysis of airborne disease transmission in a car cabin. Giorgio Grossi, University of Cassino		Effect of real temperature data on the seasonal coefficient of performance of air source heat pumps. Vincenzo Ballerini, University of Bologna
10:15	Break		
	<i>Technical Session 9: Measurement techniques for heat and mass transfer</i>	<i>Technical Session 10: Heat transfer in energy systems and nuclear plant</i>	<i>Technical Session 11: Multi-phase fluid dynamics, heat transfer and interface phenomena</i>
Google Meet Room:	https://meet.google.com/raq-xjzx-bui	https://meet.google.com/epk-edse-fjt	https://meet.google.com/dby-rjbx-utc
Chairman:	G. Cortellessa, G. Ficco	F. Arpino, L. Stabile	V. Naso
10:30	Study on the local heat transfer behaviour in a flat plate pulsating heat pipe. Pagliarini Luca, University of Parma	Entraining of dust and steam flux in water pool: experimental and numerical simulations of vapor condensation and dust deposition. Ibba Miriam, University of Pisa	Design of a Shape Memory Alloy Actuator for Self-Deployable Heat Exchangers. Perna Roberta, University of Pisa
10:45	Glass beads retro-reflective coating for building application: optical characterization and albedo assessment in an urban canyon configuration. Cardinali Marta, CIRIAF, Perugia, Italy	elastoCaloric (eC) Cooling: recent studies and preliminary results on materials and devices. Cirillo Luca, University of Naples "Federico II"	Experimental study on evaporation of droplets in microgravity and in the presence of electric field. Garivalis Alekos Ioannis, University of Pisa
11:00	Development of an innovative temperature control system in a fermenter: application to the case of the wine industry. Malavasi Matteo, University of Parma	Analytical and numerical modelling of biomass gasification in downdraft gasifiers. Linda Moretti, University of Cassino	Experimental investigation of R744 transcritical flow and mixing in the two-phase ejector. Nowak Andrzej, Silesian University of Technology
11:15	Heat fluxes distribution and uncertainty in low-Reynolds flow regimes inside a ribbed channel. Niro Alfonso, Politecnico di Milano	Numerical Model of an Evaporative Condenser for the Food Refrigeration Industry. Lorenzini Marco, University of Bologna	
11:30	Break		

Poster session, 22nd of June 2021, 11:45-12:15

Google Meet Room	Poster details
https://meet.google.com/xtu-yksv-pzv	Thermofluidynamic resonance in cancer cells. Grisolia Giulia, Politecnico di Torino
https://meet.google.com/reb-unbj-pjk	Assessment of predictive methods for the heat transfer coefficient during flow boiling of R50 and R170 mixtures. Colombo Luigi Pietro Maria, Politecnico di Milano
https://meet.google.com/xey-opav-tji	Analysis of loss cooling accident in a BWR spent fuel pool using MELCOR. D'Onorio Matteo, Sapienza University of Rome
https://meet.google.com/xjb-jofm-egv	Severe accident sensitivities and uncertainty estimation using MELCOR and RAVEN. D'Onorio Matteo, Sapienza University of Rome
https://meet.google.com/cde-wfkz-ius	A Numerical Approach to Study Shell-Side Fluid Flow in Shell-and-Tube Heat Exchangers. Quartararo Andrea, Università degli Studi di Palermo
https://meet.google.com/ywy-uxss-kim	On the modelling of tritium transport phenomena at fluid-structure interfaces. Castrovinci Francesca Maria, Università degli Studi di Palermo
https://meet.google.com/vxx-ykyd-iir	Entropy Generation Analysis on Confined Impinging Slot Jets with Nanofluids in Metal Foam. Manca Oronzio, Università degli Studi della Campania "Luigi Vanvitelli"
https://meet.google.com/loo-zrjd-fwv	Numerical investigation on thermal behaviours of latent thermal energy storages with PCM partially filled with aluminium foam. Manca Oronzio, Università degli Studi della Campania "Luigi Vanvitelli"
https://meet.google.com/puc-tjvo-bbc	Liquid holdup measurement for gas-liquid stratified flows by means of resistive probes and image processing. Carraretto Igor, Politecnico di Milano