Sunday, 5 JuneSunday, 6 JuneMonday, 6 June08:00-08:40S JuneRegistration08:00-08:10Copening Session08:00-08:10Keynote 1: Kemal Hanjalic08:00-08:10Keynote 1: Kemal Hanjalic08:00-08:10Copening Session08:01-08:30Keynote 1: Kemal Hanjalic08:01-08:30Keynote 1: Kemal Hanjalic08:01-08:30Keynote 1: Kemal Hanjalic08:01-08:30Coffee Break10:10-10:30Coffee Break10:10-11:30Coffee Break11:10-11:30Coffee Break11:10-11:30Keynote 2: Terrence W. Simon11:10-12:30Keynote 2: Terrence W. Simon11:10-14:20Keynote 2: Terrence W. Simon11:10-16:10It-16:0012:10-16:20It-16:0014:40-16:00Keynote 2: Terrence W. Simon16:00-16:10It-16:0016:00-16:10It-16:0016:00-16:10Keynote 2: Terrence W. Simon16:00-16:10Keynote 2: Terrence W. Simon16:00-16:10 <th>Tuesday, 7 June Keynote 3: Nesrin Özalp Keynote 3: Nesrin Özalp Session 5: Natural convection 1 Coffee Break Keynote 4 : Anchasa Pramuanjaroenkij Session 6 : Natural Convection 2</th> <th>Wednesday, 8 June Keynote 6: Helcio Orlande Session 9 : Heat Exchangers Coffee Break Keynote 7: Yıldız Bayazıtoğlu</th> <th>Thursday, 9 June Session 10 : Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2</th> <th>Friday, 10 June Session 14: Virtual Coffee Break Micro/Nanoscale Heat Transfer (Virtual)</th> <th>08:50 - 08: 40 08:50 - 08: 10 09:10 - 08:30 09:30 - 09:50 09:50 - 10:10 10:10 - 10:30 10:50 - 11:10 11:50 - 11:50 11:50 - 12:50</th>	Tuesday, 7 June Keynote 3: Nesrin Özalp Keynote 3: Nesrin Özalp Session 5: Natural convection 1 Coffee Break Keynote 4 : Anchasa Pramuanjaroenkij Session 6 : Natural Convection 2	Wednesday, 8 June Keynote 6: Helcio Orlande Session 9 : Heat Exchangers Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Thursday, 9 June Session 10 : Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2	Friday, 10 June Session 14: Virtual Coffee Break Micro/Nanoscale Heat Transfer (Virtual)	08:50 - 08: 40 08:50 - 08: 10 09:10 - 08:30 09:30 - 09:50 09:50 - 10:10 10:10 - 10:30 10:50 - 11:10 11:50 - 11:50 11:50 - 12:50
	Keynote 3: Nesrin Özalp Keynote 3: Nesrin Özalp Session 5: Natural convection 1 Coffee Break Keynote 4: Anchasa Pramuanjaroenkij Natural Convection 2	Keynote 6: Helcio Orlande Session 9 : Heat Exchangers Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Session 10 : Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2	Session 14: Virtual Coffee Break Coffee Break Micro/Nanoscale Heat Transfer (Virtual)	08:50 - 08: 40 08:50 - 00:10 09:10 - 00:30 09:30 - 00:50 09:50 - 10:10 10:10 - 10:30 10:30 - 11:10 11:30 - 11:50 11:50 - 12:10
	Keynote 3: Nesrin Özalp Keynote 3: Nesrin Özalp Session 5: Natural convection 1 Coffee Break Keynote 4: Anchasa Pramuanjaroenkij Session 6: Natural Convection 2	Keynote 6: Helcio Orlande Session 9 : Heat Exchangers Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Session 10 : Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2	Session 14: Virtual Coffee Break Micro/Nanoscale Heat Transfer (Virtual)	08:50 - 08:10 08:10 - 08:30 09:30 - 09:30 09:50 - 10:10 10:10 - 10:30 10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
	Session 5: Natural convection 1 Coffee Break Keynote 4 : Anchasa Pramuanjaroenkij Session 6 : Natural Convection 2	Session 9 : Beat Exchangers Coffee Break	Session 10 : Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2	Session 14: Virtual Coffee Break Micro/Nanoscale Heat Transfer (Virtual)	08:10 - 08:30 09:30 - 09:50 09:50 - 10:10 10:10 - 10:30 10:30 - 11:10 11:30 - 11:50 11:30 - 11:50 11:50 - 12:10
		Session 9 : Heat Exchangers Coffee Break Keynote 7: Yildiz Bayazıtoğlu	Thermal Systems Keynote 9: Ziad Saghir Coffee Break Forced Convection 2	Session 14: vinual Coffee Break Session 15: Micro/Nanoscale Heat Transfer (Virtual)	09:30 - 09:50 09:50 - 10:10 10:10 - 10:30 10:30 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
		Session 9 : Heat Exchangers Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Keynote 9: Ziad Saghir Coffee Break Session 11 : Forced Convection 2	Coffee Break Session 15: Micro/Nanoscale Heat Transfer (Virtual)	09:50 - 10:10 10:10 - 10:30 10:30 - 10:50 10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
		Session 9 : Heat Exchangers Coffee Break Keynote 7: Yildız Bayazıtoğlu	Keynote 9: Ziad Saghir Coffee Break Session 11 : Forced Convection 2	Coffee Break Session 15: Micro/Nanoscale Heat Transfer (Virtual)	10:10 - 10:30 10:30 - 10:50 10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
		Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Coffee Break Coffee Break Session 11 : Forced Convection 2	Session 15: Micro/Nanoscale Heat Transfer - (Virtual)	10:30 - 10:50 10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
		Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Coffee Break Session 11 : Forced Convection 2	Session 15: Micro/Nanoscale Heat Transfer (Virtual)	10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
		Coffee Break Keynote 7: Yıldız Bayazıtoğlu	Session 11 : Forced Convection 2	(Virtual)	11:10 - 11:30 11:30 - 11:50 11:50 - 12:10
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18:40 - 17:00 centre) Session 4: Virtual	Session 8 : Poster Session		Consistent 42 - Virtual		16:40 - 17:00
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	Gala Dinner				

5th International Symposium on Convective Heat and Mass Transfer

CONV-22, Izmir, June 5-10, 2022

PROGRAM

Sunday, June 5, 2022

16:00 – 18:00	Registration
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Monday, June 6, 2022

08:00 - 08:40	Registration
08:50 - 09:10	Opening Session
09:10 – 09:50	Keynote Lecture 1: Luikov Medal Lecture
	COMPUTER MODELLING OF THERMALLY-DRIVEN MICROCLIMATE PHENOMENA Kemal Hanjalić Session Chair: Renato Cotta
	Session 1: Forced Convection 1 Session Chair :
09:50 – 10:10	A 28 The Capability Study of Practical Working Fluids in the Desktop-CPU Cooling System <i>A. Pramuanjaroenkij * and S. Kakaç</i>
10:10 – 10:30	A 67 Supersonic Nitrogen and Helium Jet Impingement on a Flat Stationary Surface Joseph M. Conahan, Ozan C. Ozdemir*, Mohammad E. Taslim and Sinan Muftu
10:30 – 10:50	A 65 Heat Transfer Intensification in Minichannel Cooling System K. Delendik*, O. Voitik, N. Kolyago, O. Penyazkov and L. Roshchin
10:50 – 11:10	Coffe Break
	Session 2: Phase Change 1 Session Chair :
11:10 – 11:30	A 57 Numerical Modeling of the Desublimation of CO ₂ Michael Adebayo Oyinloye*, Sreenivasa Rao Gubba, Marius-Gabriel Cojocaru, Deoras Prabhudharwadkar and William L. Roberts
11:30 – 11:50	A 15 Effect of Subcooling and Pressure Over Nucleate Pool Boiling on Micro-Drilled Surfaces Tolga Emir [*] , Mete Budakli and Mehmet Arik
11:50 – 12:10	A 99 The Onset of Significant Void in Subcooled Flow Boiling <i>H. Jeong[*] and W. Jaewoo Shim</i>
12:10 – 12:30	A 71 Numerical Investigation of Critical Heat Flux under the Effect of Different Operating Conditions in Flow Boiling Saeid R. Angeneh* and Murat K. Aktas
12:30 – 12:50	A 60 The Regularities of the Convective Heating Water Droplets at the Transient Phase Change Regime When They Slipping in the Radiating Media <i>Gintautas Miliauskas, Žygimantas Staliulionis and Monika Maziukienė</i> *
12:50 – 14:00	Welcome Reception
14:00 – 14:40	Keynote Lecture 2

	TURBULENCE MEASUREMENTS IN A TURBINE CASCADE FLOW Terrence Simon Session Chair:
	Session 3: Thermal Process Session Chair :
14:40 – 15:00	A 19 Investigation of Nanoscale Droplet Evaporation by Molecular Dynamics Simulations Ezgi Satiroglu [*] and Murat Barisik
15:00 – 15:20	A 74 Study of Heptane Pool Fire in Well-Confined Military Vehicle Engine Compartment Soleh F. Junjunan, Khaled Chetehouna*, Axel Cablé, Abdulhadi Abdlgwad, Antoine Oger and Romie O. Bura
15:20 – 15:40	A 12 Drop-on-Demand Inkjet Printing Assessment of Graphene from Aqueous Graphene Dispersions <i>Elif Begum Elcioglu* and Erdem Ozyurt</i>
15:40 – 16:00	A 13 Activated Carbon Heat Sinks <i>Alperen Günay</i>
16:00 – 16:20	Coffe Break
	Session 4: Numerical Analysis (Virtual) Session Chair :
16:20 – 16:35	A 95 Laminar Natural Convection of Power-Law Fluids in a Trapezoidal Enclosure Heated from the Bottom Sean P. Malkeson*, Saleh Alshaali and Nilanjan Chakraborty
16:35 – 16:50	A 76 Effect of Variable Viscosity on Natural Convection Within a Semi-Cylindrical Cavity Filled with a Heat Generating Fluid A. I. Kudrov* and M. A. Sheremet
16:50 – 17:05	A 21 Numerical Heat Transfer Analysis of Two-Phase Flow in Horizontal and Inclined Flowlines using OpenFOAM Nsidibe Sunday*, Abdelhakim Settar, Khaled Chetehouna and Nicolas Gascoin
17:05 – 17:20	A 52 Effects of the Soil Properties on Canadian Wells Performance: Numerical Simulation Islam Boukail, Louay Fenchouch, Nabil Kharoua* and Hamza Semmari
17:20 – 17:35	A 42 Convective Heat Transfer in the Brest-OD-300 Nuclear Reactor Fuel Rod D. Fedorovich* and I. Paramonova
17:35 – 17:50	A 90 Simulation of Magnetic Field Effect on Heat Transfer Enhancement of Swirling Nanofluid Brahim Mahfoud

	Keynote Lecture 3
08:50 – 09:30	SOLAR FUELS PRODUCTION USING HIGH TEMPERATURE SOLAR REACTORS UNDER TRANSIENT THERMAL RESPONSE Nesrin Özalp Session Chair:
	Session 5: Natural Convection
	Session Chair :
09:30 - 09:50	A 50 Fully Developed Mixed Convection in a Plane Vertical Microchannel Jacques Padet [*] and Renato Cotta
09:50 – 10:10	A 14 Natural Convection in a Cylindrical Enclosure with Different Internal Objects Ibrahim Jarrah and Rizwan-uddin*
10:10 – 10:30	A 48 Effects of Wall-Shearing on Weakly Turbulent Rayleigh-Bénard Convection <i>Ilyas Yilmaz</i> *
10:30 – 10:50	A 69 Effect of Prandtl and Richardson Numbers on Convection Heat Transfer from a Heated Circular Cylinder Immersed in a Wake of an Adiabatic Cylinder Zaher Ramadan* and Chan Woo Park
10:50 – 11:10	Coffe Break
11:10 – 11:50	Keynote Lecture 4
	THE PERFORMANCE ENHANCEMENT OF THE AGRICULTURAL POSTHARVEST COOLING SYSTEMS BY USING HEAT EXCHANGERS
	Anchasa Pramuanjaroenkij Session Chair:
	Session 6: Natural Convection 2 Session Chair :
11:50 – 12:10	A 30 Heat Transfer ReCtification for Energy Managmement in Buildings Abdulmajeed Mohamad [*]
12:10 – 12:30	A 88 Natural Convection-Driven Phase Change Inside Cylindrical Annulus Okan Gök*, Ersin Alptekin, Mehmet A. Ezan and Aytunç Erek
12:30 – 12:50	A 18 Modeling of Thermal Conductivity of Bio-Based Building Composites Fabian Dietrich, Piotr Łapka,*, Piotr Furmański, Maris Sinka and Diana Bajare
12:50 – 14:00	Lunch Break
14:00 – 14:40	Keynote Lecture 5
	PREMIXED FLAME-WALL INTERACTION AND HEAT TRANSFER CHARACTERISTICS IN TURBULENT BOUNDARY LAYERS: INSIGHTS BASED ON DIRECT NUMERICAL SIMULATIONS
	Nilanjan Chakraborty Session Chair:
	Session 7: Phase change 2 Session Chair :
14:40 – 15:00	A 16 Influence of Frost Formation on Heat Transfer Effectiveness of Extended Surfaces Alper Saygin *,Ceyhun Topal, Altug M. Basol and Mehmet Arik
15:00 – 15:20	A 47 Validation of a Heat-Pipe Experiment Using CFD <i>Höhne T.</i> *

15:20 – 15:40	A 98 Numerical Investigation of the Refining Process in a Glass Melting Furnace Containing Gas Bubbles Tolga Altinoluk*, Altug M. Basol, M. Pinar Menguc and Adnan Karadag
15:40 – 16:00	A 43 Enhancing DCMD Efficiency For Desalination at Module Scale Through Dual Heat Recovery and Retentate Recirculation Emerson B. dos Anjos [*] , Abdul O. Cárdenas Gómez, Luz E. Peñaranda Chenche, João A. Lima, Carolina P. Naveira-Cotta, Renato M. Cotta and Kleber M. Lisboa
16:00 – 16:20	Coffe Break
16:20 – 17:40	Poster Session Session Chair :
	Gala Dinner

	Keynote Lecture 6
08:50 - 09:30	DIRECT SIMULATIONS AND INVERSE PROBLEMS INVOLVING NONUNIFORMLY HEATED PALLADIUM NANOFLUIDS
00.00 00.00	Helcio Orlande
	Session Chair:
	Session 9: Heat Exchangers
	Session Chair : A 20
09:30 – 09:50	Experimental Thermal Performance Evaluation of Plate Heat Exchanger Made from Green-Poxy Resin- Based Bio-Composite and SiC Powder Abdelhakim Settar*, Jean-Loup Sarrat, Khaled Chetehouna and Asih Melati
	A 34
09:50 – 10:10	Thermal Performance Characterization of a Flat-Grooved Heat Pipe Integrated Cold Plate Kaan Atak, Öykü Çoşar, A. Cem Gözükara, Mustafa Ocak, Ahmet Özdemir, Mustafa Karakoç, Zafer Dursunkaya and Barbaros Çetin*
	A 83
10:10 – 10:30 Or	n The Correct Modeling of Flow Characteristics in Double Pipe Heat Exchangers with Inner Dimpled Tube Nur Çobanoğlu* and Ziya H. Karadeniz
	A 35
10:30 – 10:50	Experimental Analysis of Shell and Tube Heat Exchanger Berk Cevrim [*] , Murat K. Aktas and Sadık Kakac
	A 46
10:50 – 11:05	A Review of Flammable Gases from Human Waste Sludge as a Potential Source of Energy Maryam Ghaffari*, Shazia Ali, Maria Mavroulidou and Alex Paurine
11:05 – 11:30	Coffe Break
11:30 – 12:10	Keynote Lecture 7
	NATURAL CONVECTION IN SHALLOW AND TALL ENCLOSURES
	Yıldız Bayazıtoğlu
	Session Chair:
12:10 – 12:50	Keynote Lecture 8
	ANALYTICAL-COMPUTATIONAL METHODS IN ENERGY EFFICIENCY AND SUSTAINABLE ENERGIES
	Renato Cotta
	Session Chair:
12:50 – 14:00	Lunch Break

Thursday, June 9, 2022

	Session 10: Thermal Systems Session Chair :
08:50 – 09:10	A 96 Effect of Thermal Interface Materials for High-Power Led Lighting Applications Ömer Refik Sözbir*
09:10 – 09:30	A 64 Micropillar Wick Structure for Ultrathin Vapor Chamber K. Delendik*, O. Voitik, N. Kolyago, O. Penyazkov and L. Roshchin
09:30 – 09:50	A 33 Isogeometric and Nurbs-Enhanced Boundary Element Analysis of a Heat Conduction Problem Özgür Can Gümüş, Besim Baranoğlu and Barbaros Çetin*
09:50 – 10:10	A 73 The Effect of Permanent Magnet Locatlon on the Performance of Ferrofluld Based SPNCmL Selim Can Bozkır*, Nur Çobanoğlu, Serkan Doğanay, Ziya Haktan Karadeniz and Alpaslan Turgut
10:10 – 10:50	Keynote Lecture 9
	INNOVATIVE APPROACH FOR COOLING USING WATER AND NANOFLUIDS IN MINI CHANNELS Ziad Saghir Session Chair:
10:50 – 11:10	Coffe Break
	Session 11: Forced Convection 2 Session Chair :
11:10 – 11:30	A 25 Investigation of the Thermohydraulics of an EGS Project in Turkey: Comparative Assessment of Water and CO ₂ As Heat Transfer Fluid <i>A. C. Benim* and A. Çiçek</i>
11:30 – 11:50	A 38 Ferrohydrodynamics in Laminar Pipe Flow Matthias H. Buschmann*
11:50 – 12:10	A 63 Numerical Investigations of Heating/Cooling Effects on Laminar-Turbulent Transition Delay in High-Speed Flows <i>M. Celep, S. Sharma, A. Hadjadj* and M. S. Shadloo</i>
12:10 – 12:30	A 26 Computational and Experimental Investigation of Flow and Convective Heat Transfer along Rough Surfaces <i>C. Özman, F. Gül, M. Diederich, A. C. Benim* and U. Janoske</i>
12:30 – 12:50	A 86 Experimental Energy Balance of Turbulent Forced Convection in Thick-Walled Heat Generating Tube with Temperature Dependent Properties Aziz H. Altun and Eyub Canli [*]
12:50 – 14:00	Lunch Break
14:00 – 14:40	Keynote Lecture 10
	REGENERATIVE STIRLING MACHINES FOR THE PRODUCTION OF WORK, HEATING AND COOLING: THERMO-PHYSICAL PHENOMENA AND TECHNOLOGICAL CONSIDERATIONS François Lanzetta Session Chair:
-	Session 12: Virtual Session Chair :
14:40 – 14:55	A 29 SVR Based Temperature Prediction of Cylindrical Tube Banks in Cross Flow Having Arbitrary Heaters Rojo Kurian Daniels, Vikas Kumar, Satyendra Singh Chouhan and Aneesh Prabhakar [*]
14:55 – 15:10	A 55 Effect of Nanoparticle Shape on Nanofluid Flow in Conical Helical Tube Fethi M. Altunay, Majdi A. M. Ali, Mehmet Gurdal [*] , Hayati Kadir Pazarlioğlu, Kamil Arslan And Engin Gedik

	A 44
15:10 – 15:25	An Entropy Study of Water in Carbon Nanotube Surface with Uneven Hydrophobicity Hamed Esmaeilzadeh [*] , Majid Charmchi and Hongwei Su
	A 93
15:25 – 15:40	Effect of the Surface Radiation on Jet Impingement Cooling of a Concave Surface Melisa Albayrak, Bugra Sarper*, Soner Birinci, Mehmet Saglam and Orhan Aydin
	A 51
15:40 – 15:55	On the Thermal Interaction Between Geothermal Boreholes with Groundwater Flows Using Asymptotic Expansion Techniques Javier Rico* and Miguel Hermanns
	A 58
15:55 – 16:10	A Velocity-Vorticity Approach to Analyze the Solid and Porous Fins Effect on Heat Transfer Performance in a Differentially Heated Cubical Cavity Xuan Hoang Khoa Le and Mikhail A. Sheremet
16:10 – 16:30	Coffe Break
	Session 13: Virtual Session Chair :
16:30 – 16:45	A 59 Numeriacal Study of The Melting Behaviour of a Biobased Phase Change Material <i>M, Djenane[*], T. Boukelia, El Wakil , Y. Kabar and M. Rebay</i>
16:45 – 17:00	A 36 Thermal Modelling of Hydrothermal Carbonization Pilot-Scale Reactor for Bio-Waste Processing B. Morrone [*] , M.L. Mastellone, D. Battaglia, A. Capone and L. Zaccariello
17:00 – 17:15	A 61 Non-gray Radiation Modeling of Methanol Swirling Flame <i>N. Kumar* and A. Bansal</i>
17:15 – 17:30	A 97 Transient Behavior of Non-Uniform Pulsating Heat Pipes Under Different Heat Loads <i>Burak Markal* and Alperen Evcimen</i>
17:30 – 17:45	A 82 Improvement of a PV Panel Cooling by Using a Microchannel Heat Sink <i>B, Bouhabel, T. Boukelia, Y. Kabar[*] and M. Rebay</i>
17:45 – 18:00	A 40 NUMERICAL Simulations of Mass Transfer in Turbulent Pipe Flow at High Schmidt Numbers <i>J. Chen, D. Wang, D. Ewing and C.Y. Ching</i> *

Friday, June 10, 2022

	Session 14: Convection with and without Phase Change (Virtual) Session Chair :
08:50 – 09:05	A 85 Influence of Pillar Surfaces on Enhanced Ice Plug Melting Performance in Flow Channel of Proton Exchane Membrane Fuel Cell Sheng Xu, Bifeng Yin* and Fei Dong
09:05 – 09:20	A 62 Thermo-Fluid Analysis of Mini-channel Heat Sinks for High Flux Dissipation Nabil Bessanane*, Mohamed Si-Ameur and Mourad Rebay
09:20 – 09:35	A 70 Natural Convection in a Porous Cavity: The Roads to Chaos Saad Adjal*, Sabiha Aklouche-Benouaguef and Belkacem Zeghmati
09:35 – 09:50	A 56 A Numerical Investigation on the Thermo-Hydraulic Performance of Dimpled Fin Configurations in a Rectangular Channel Pazarlıoğlu. H.K., Gürdal. M.*, Tekir. M., Altunay, F.M. and Arslan. K.
09:50 - 10:05	A 72 Thermal and Dynamic Similarity Between a Transitional Spot and Fully Developed Turbulent Wall Flow B. Arrondeau [*] , S. Tardu and O. Doche
10:05 – 10:20	A 23 Experimental Comparison of Heat and Flow Characteristics of Rectangular Finned Heat Sink and Flat Plate Using Single Nozzle Impingement Air Jet Altug Karabey* and Denizhan Bozdogan
10:20 – 10:40	Coffe Break
	Session 15: Micro/Nanoscale Heat Transfer (Virtual) Session Chair :
10:40 – 10:55	A 81 Aspect Ratio Influence on Natural Convection in a Rotating Differentialy-Heated Cavity S.A. Mikhailenko* and M.A. Sheremet
10:55 – 11:10	A 80 Effect of Heat-Generated Element Location on Natural Convection of Nanofluid with Temperature- Dependent Thermal Properties in a Cavity Marina S. Astanina* and Mikhail A. Sheremet
11:10 – 11:25	A 41 Enhancement of Heat Transfer Using Nanofluid in Minichannel Heat Exchanger with Cavities S. Djellouli* and EG. Filali
11:25 – 11:40	A 78 Influence of a Ribbed Structure on the Pseudoplastic Nanofluid Thermogravitational Convection in a Cavity with a Heat-Generated Element Daria S. Loenko* and Mikhail A. Sheremet
11:40 – 11:55	A 68 Effect of Nanoparticles in a Polar/Non-Polar Liquid of an Evaporating Thin-Film Meniscus <i>Ritesh Dwivedi, Saumya Singh and Pawan K. Singh</i> *

POSTER PRESENTATIONS

Tuesday, June 7, 2022

P 66	Calculation of Reliability on Justification Cooling of the Vver-1200 Core During the Operation of Passive Heat
P 00	Removal System Through Steam Generator
F to F	Nurberk Sungur [*] and Irina Lvovna Paramonova
P 91	Analysis of Possibilities of Increasing Convective Heat Transfer Intensity in PEX Pipes for Applications in Ground
	Heat Exchangers
F to F	Piotr Łapka* and Juliusz Wachnicki
P 06	Visualizing the Evaporation/Boiling Heat Transfer of a 3D-Printed Wick For Heat Pipe Applications
	Davoud Jafari* and Wessel W. Wits
F to F	Numerical Otorio of Tenna and an Otoriffication for Distable at Eacher ware with Different User's Transfer Areas
P 07	Numerical Study of Temperature Stratification for Plate Heat Exchangers with Different Heat Transfer Areas Jeong-gyun Ham, Hong-hyun Cho, Dong-wook Oh and Gong-hee Lee*
Virtual	Jeong-gyun nam, nong-nyun cho, Dong-wook on and Gong-nee Lee
P 08	Stability Measurements of Hybrid Magnetic Nanofluids Using a 3D Helmholtz Coil System Setup
	R. Alsangur*, S. Doganay, İ. Ates, A. Turgut, L. Cetin and M. Rebay
F to F	
P 09	Simulation of Heat Transfer of Al ₂ O ₃ /Water Nanofluid- Effect Volume Fraction
	AmirReza Radmanesh and Nihad Dukhan [*]
D 400	
P 100	The Modeling of Decay Heat Removal by Natural Convection from a Spent Nuclear Fuel Storage Container
Virtual	Robertas Poskas*, Kęstutis Račkaitis, Povilas Poskas and Svitlana Alyokhina
P 101	Solar Thermal Energy Storage with Phase Change Material for Domestic Active Space Heating Applications
1 101	Pushpendra Kumar Shukla* and P. Anil Kishan
F to F	
P 103	Interphase Heat Transfer in the Process of Bulk Condensation in the Dust-Laden Flow
	N.M. Kortsenshteyn and A.K. Yastrebov*
Virtual	
P 104	Time-Resolved Tomographic PIV Measurements in the Near Field of a Confined Wake
F to F	M.V. Shestakov* and D.M. Markovich
P 106	Prediction of Flow Patterns of Liquid-Liquid Flows on T-Shaped Microchannels Using Machine Learning
1 100	Approaches
F to F	Anna A. Yagodnitsyna*, Ivan A. Plohih, Alexander V. Kovalev and Artur V. Bilsky
P 107	Potential Ecodesign Requirements for Household Refrigerating Appliances: Implementation of EU Energy
	Regulation
F to F	Halil Doğacan Koca [*]
P 17	Numerical Analysis of Conjugate Convective-Radiative Heat Transfer in a Cavity with Two Heated Elements
Virtual	N.S. Gibanov* and M.A. Sheremet
Virtual P 32	
1 52	Mesoscopic Numerical Study of Nanoscale Convective Heat in MOS Transistor System
	Abdelmalek Atia* and Oussama Zobiri
P 37	Thermo-Mechanical Behavior Analysis of Shape Memory Alloys - Smart Materials - and Estimation of Their Strain
	Energy Absorption Under Different Applied External Loads
F to F	Brahim Necib*, Abdelaziz Lebied and Mohamed Sahli
P 77	CFD Modeling of the Thermal State of a House In Moscow (Russia) at Various Thermal Resistance Coefficients of
E to E	the Buildings Envelope ond Various Parameters of Outdoor Air
F to F P 84	D. Kruglikov [*] and I. Sultanguzin
Г 04	Numerical Investigation of Heat Transfer in Building Brick Containing a New Bio-Based Phase Change Material
Virtual	Z. Guermat, T. Boukelia and Y. Kabar [*]
P 39	
-	Heat Transfer Improvements in Nanofluid Synthesis, Stability, and Thermophysical Properties: A Review
	B.S. Mashishi*, Z. Huan, T. Sithebe and V.R Veeredhi
P 79	Convective Heat Transfer over Bank of Oscillating Slotted Tubes
	Zahra Shomali*, Jafar Ghazanfarian and Haleh Soheibi
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