

Sunday, June 8, 2014

14:30 – 18:00	Registration
---------------	--------------

Monday, June 9, 2014

07:30 – 08:30	Registration	
08:45 – 09:10	Opening Session	
	MILETUS	
09:10 – 09:55	PLENARY SESSION	
	Unified Integral Transforms Algorithm for Convection-Diffusion in Irregular Geometries and Complex Configurations <i>Renato M. Cotta (Brazil)</i> Chair: Sadık Kakaç	
	PARALLEL SESSIONS	
	MILETUS	PIRENE
	Session 1: Phase Change 1	Session 2: Forced Convection 1
	Chair: Nilanjan Chakraborty	Chair: Mehmet Arik
10:00 – 10:20	133 Investigations of Heat Transfer in Composite Phase Material in a Shell and Tube Storage Device <i>Aditya Atal, Yuping Wang, Mayur Harsha and Subrata Sengupta</i>	239 Conjugate Heat Transfer in The Preheating Region of Pipes for Laminar Flows with Axial Heat Conduction <i>Stefano Piva</i>
10:20 – 10:40	42 CFD Simulation of Spray Dehumidification Process in Moist Air <i>Ali Farnoud, Semra Gümrük and Murat K. Aktaş</i>	137 Experimental Investigation of Heat Transfer and Pressure Drop over Rectangular Profile Fins Placed in a Square Channel <i>Ece Ayli, Fırat Kıyıcı, Özgür Bayer and Selin Aradağ</i>
10:40 – 11:00	Coffee Break	

11:00 – 11:20	181 Influence of Internal Natural Convection on Water Droplets Freezing on Cold Surfaces	110 Entry Flows for FENE-P Fluids in a Plane Passage for Constant Heat Flux & Wall Temperature Boundary Conditions
	<i>Linn Karlsson, Anna-Lena Ljung and T. Staffan Lundström</i>	<i>A. Filali, L. Khezzer and Z. Nemouchi</i>
11:20 – 11:40	90 The Study of the Heated Air Flow Patterns from the Condensing Unit Effecting on the Air Conditioning Efficiency and the Drying Application	108 Meshed Infrared Thermography for Determining Temperature Distribution in Air Flows
	<i>A. Pramuanjaroenkij, S. Phondeechareon, D. Pakotanang, A. Aryusom, S. Phankhoksoong, W. Pensiriwan, S. Namprakai, and S. Kakaç</i>	<i>Z. Haktan Karadeniz, Dilek Kumlutaş and Özgün Özer</i>
11:40 – 12:00	50 Numerical Simulation of Evaporation in Minichannels Using Multiphase VOF Model	136 On Convective Heat Transfer in Channels (New Approach)
	<i>Ghazali Mebarki, Mourad Rebay, Nadim Elwakil, Anis Hamza and Samir Rahal</i>	<i>Mikhail I. Davidzon</i>
12:00 – 12:20	118 Boiling of Oil-in-Water Emulsions in a Square Capillary	
	<i>Hao-Hsian Fan and Chen-li Sun</i>	
12:20 – 14:00	Lunch Break	
	MILETUS	
14:00 – 14:45	PLENARY SESSION Heat Transfer Enhancement : Mechanism, Evaluation and Applications <i>Yaling He and Wenquan Tao (China)</i> Chair: Yogesh Jaluria	
	PARALLEL SESSIONS	
	MILETUS	PIRENE
	Session 3: Thermal Systems 1	Session 4: Natural Convection 1
	Chair: Helcio Orlando	Chair: Ziad Saghir
14:50 – 15:10		203 On the Stability of Natural Convection Flow Induced by Time-Varying Radiative Thermal Forcing
		<i>Tae Hattori, John C. Patterson and Chengwang Lei</i>

15:10 – 15:30	149 Flow Boiling Heat Transfer of R-600a/Oil Inside a Horizontal Smooth Tube	152 Effects of Aspect Ratio on Natural Convection of Bingham Fluids in Rectangular Enclosures with Differentially Heated Horizontal Walls Heated from Below
	<i>M.A. Akhavan-Behabadi, M. Nasr, M.R Momenifar and P.Hanafizadeh</i>	<i>Şahin Yiğit, Robert J. Poole and Nilanjan Chakraborty</i>
15:30 – 15:50	160 Theoretical Approach of a Cylindrical Solar Water Heater	
	<i>Mohammadreza Momenifar, Hosein Shokohmand,, Kasra Karimizad and Mohammadreza Saffarian</i>	
15:50 – 16:10		
16:10 – 16:30	Coffee Break	
16:30 – 16:50	124 One-Dimensional Heat Transfer Analysis and Experimental Investigation of a Gas Turbine Combustor	54 Numerical Comparison of Passive and Active Cooling Strategies on LEDs with Optical Concerns: Natural, Forced and Immersion Cooling
	<i>Ahmet Topal, Coşku Çatorı, Lütfiye Çağan, Sıtkı Uslu, Önder Turan and Altuğ Pişkin</i>	<i>Enes Tandoğan and Mehmet Arık</i>
16:50 – 17:10	207 Heat and Mass Transfer in Cross-Flow Air-to-Air Membrane Heat Exchanger	128 Investigation of Aerodynamic Forces on Two Tandem Cars
	<i>Valerii I. Deshko, Anton Ya. Karvatskii and Iryna O. Sukhodub</i>	<i>Reza Bahoosh Kazerooni, Mohammadreza Momenifar, Kasra Karimizad and M. Afshar</i>
17:10 – 17:30	256 3-D Numerical Simulation of Heat Transfer Enhancement in a Receiver Tube of Solar Parabolic Trough Collector with Twisted-tape Inserts	
	<i>Shahrzad Ghadiri Jafarbeigloo, Mohammad Hossein Abedini-Saniji, Amir Hosein Zamzaman and Mahmood Yaghoubi</i>	
17:30 – 17:50	176 Simulation of Thermal Characteristics of Radiators Using a Porous Model	
	<i>Kadir Gökhan Güler, Barbaros Çetin and M. Haluk Aksel</i>	
18:40 – 19:40	Welcome Cocktail	

Tuesday, June 10, 2014

MILETUS	
08:30 - 09:15	PLENARY SESSION (Dedication Lecture) Regards on Mixed Convection <u>Jacques Padet (France)</u> Chair: Renato Cotta
09:15 – 10:00	PLENARY SESSION (Dedication Lecture) Numerical Analysis of Convective Heat Transfer with Temperature Dependent Thermal Conductivity of Nanofluids and Thermal Dispersion <u>Sadık Kakaç (Turkey)</u> Chair: Renato Cotta
10:00 – 10:40	Coffee Break
PARALLEL SESSIONS	
MILETUS	PIRENE
Session 5: Porous Media 1	Session 6: Mass Transfer 1
Chair: Renato Cotta	Chair: Gian Luca Morini
10:40 – 11:00	10:40 – 11:00
58 A Numerical Study on the Determination of the Effects of Pore to Throat Size Ratio on the Thermal Dispersion in Porous Media <u>Türküler Özgümüş, Moghtada Mobedi and Ünver Özkol</u>	36 A Nuclear Quantum Effect on the Transport Properties of Liquid Hydrogen <u>Hiroki Nagashima, Shin-ichi Tsuda, Nobuyuki Tsuboi, Mituso Koshi, Koichi A. Hayashi and Takashi Tokumasu</u>
11:00 – 11:20	11:00 – 11:20
83 Lattice Boltzmann Simulation of Thermal Non-Equilibrium Forced Convective Flow and Energy Storage in a Porous Channel <u>Bayçain Amami, Hussein El Abrach, Hacem Dhahri and Abdallah Mhimid</u>	150 Boundary Discretization of Light Propagation in Skin Tissue: Problem and Countermeasure <u>Hao Jia, Dong Li, Yong Zhang and Bin Chen</u>
11:20 – 11:40	11:20 – 11:40
140 Nanofluids Flow Simulation as the Flow Through the Porous Media <u>Amarin Tongkratoke, Anchasa Pramuanjaroenkij, Apichart Chaengbamrung and Sadık Kakaç</u>	84 Numerical Study of the Heat and Mass Transfer Conditions at the Surface of a Heated Droplet <u>Anna-Lena Ljung and T. Staffan Lundström</u>

11:40 – 12:00	200 Liquid Flow in Packed Spheres of Equal Diameters: Regimes, Permeability and Forchheimer Coefficient	319 Simulation and Theoretical Analyses of Energy Use of a Building in Varying Climates
	<i>Özer Bağcı, Nihad Dukhan and Mustafa Özdemir</i>	<i>Serdar Çelik and Swetha Atluri</i>
12:00 – 12:20	180 The Microstructural Effects of Randomly Generated Porous Media on Interfacial Convective Heat Transfer	
	<i>Eren Uçar, Moghtada Mobedi and Azita Ahmadi</i>	
12:20 – 14:00	Lunch Break	
	MILETUS	
14:00 – 14:45	PLENARY SESSION Experimental Techniques for the Analysis of Single-phase Forced Convection in Microchannels <i>Gian Luca Morini (Italy)</i> Chair: Abdulmajeed Mohamad	
	PARALLEL SESSIONS	
	MILETUS	PIRENE
	Session 7. Microscale 1	Session 8: Phase Change 2
	Chair: Almila Yazıcıoğlu	Chair: Leonard Vasiliev
14:50 – 15:10	31 Experimental and Theoretical Analysis of a Microchannel Heat Exchanger for High Concentration Photovoltaic Cells	172 Control of Effective Oxygen Transfer Characteristics in Gas Diffusion Layer with Moisture for PEFC
	<i>Dadui C. Guerrieri and Carolina P. Naveira-Cotta</i>	<i>Ryo Koresawa and Yoshio Utaka</i>
15:10 – 15:30	33 Entrance Effects on the Gaseous Flow in Microchannels	
	<i>Colette Padet, Rachid Bessaih, Yassine Kabar and Mourad Rebay</i>	
15:30 – 15:50	79 Multiphysics Simulation of Microfluidic Reactor for Polymerase Chain Reaction	
	<i>Barbaros Çetin and Ilbey Karakurt</i>	
15:50 – 16:10	310	

	Numerical Study on Nanofluid Based Single Phase Natural Circulation Mini Loops	
	<i>Z. Haktan Karadeniz, Serkan Doğanay and Alpaslan Turgut</i>	
16:10 – 16:30	Coffee Break	
16:30 – 18:30	POSTER SESSION A	

Wednesday, June 11, 2014

MILETUS	
08:30 – 09:15	PLENARY SESSION Simulation of Blood Flow with Lattice Boltzmann Method <i>Abdulmajeed. A. Mohamad (Canada)</i> Chair: Jacques Padet
PARALLEL SESSIONS	
MILETUS	PIRENE
Session 9: Fluid Mechanics 1	Session 10: Forced Convection 2
Chair: Jacques Padet	Chair: Hassan Soliman
09:20 – 09:40	09:20 – 09:40
89 Effect of Radial Inner Cylinder Vibration on Taylor-Couette Flow with Free Surface <i>Hamid Oualli, M. Mekadem, Ali Abdelali and A. Bouabdallah</i>	63 CFD Simulations and Experimental Validation for Gasketed Plate Heat Exchangers <i>Ece Özkaya, Çağın Gülenoğlu, Selin Aradağ and Sadık Kakaç</i>
09:40 – 10:00	09:40 – 10:00
112 Experimental and Numerical Study on an Axial Compressor of a Turboshaft Engine <i>E. Nadir Kaçar and Volkan Tatar</i>	49 Control of Heat Transfer in a Water Filled Enclosure with a Vibrating Side Wall <i>Cihat Duru and Murat K. Aktaş</i>
10:00 – 10:20	10:00 – 10:20
195 Use of Particle Filters to Estimate Air Speed in a Pitot Tube <i>Gino J. A. de Andrade, Helcio R. B. Orlando and Renato M. Cotta</i>	222 Influence of Internal Swirl Flow on Heat Transfer <i>Christian Scherhag, Martin Bruschewski and Heinz-Peter Schiffer</i>
10:20 – 10:40	Coffee Break
10:40 – 11:00	10:40 – 11:00
166 A-priori DNS Assessment of the Effects of Lewis Number on the Performances of Sub-grid Scalar Flux Models for Large Eddy Simulation of Premixed Flames <i>Nilanjan Chakraborty and Markus Klein</i>	97 Flow and Heat Transfer of Air Round Jet Flowing Inside a Hot Cylindrical Cavity <i>Yacine Halouane and Amina Mataoui</i>
11:00 – 11:20	11:00 – 11:20
86 Design and Analysis of a Ducted Contra-rotating Axial Flow Fan	188 Aero-Thermal Investigation of Turbulator Cross Section Shape on Turbine Cooling Channels

	<i>Ali Mohammadi, Masoud Boromand and Hamzeh Eshraghi</i>	<i>Yavuzer Karakuş, Isa Kavas and Tolga Yasa</i>
11:20 – 11:40	308 Sensitivity to Pumping Back-pressure in a Bulk Acoustic Wave Piezoelectric Positive-displacement Micropump	55 Control of Boundary Layer Transition over a Flat Plate Using Discrete Heater Strips
	<i>Ersin Sayar and Bakhtier Farouk</i>	<i>Abdussamet Subaşı and Hasan Güneş</i>
11:40 – 12:00	221 Heat Transfer Enhancement Behind a Backward Facing Step Using Localized Suction and Blowing	154 Numerical Study of High-Pressurized Water Mixing in a T-junction with an Elbow
	<i>Umut Can Coşkun, Sertaç Çadırcı and Hasan Güneş</i>	<i>Nabil Bessanane, Mohamed Si-Ameur and Mourad Rebay</i>
12:00 – 12:20	209 Effect of a Moving Wall Proximity on the Near Wake of a Circular Cylinder	
	<i>M. S. Khabbouchi, M. S. Guellouz and S. Tavoularis</i>	
12:20	Lunch Break	
FREE AFTERNOON		

Thursday, June 12, 2014

MILETUS	
08:30 – 09:15	PLENARY SESSION Heat and Mass Transfer in Microchannels <i>S. A. Sherif (USA)</i> Chair: Gian Luca Morini
PARALLEL SESSIONS	
MILETUS	PIRENE
Session 11: Natural Convection 2 / Forced Convection 3	Session 12: Microscale 2
Chair: Said Abboudi	Chair: Carolina Naveira-Cotta
161 On the K-type Transition in Natural Convection Boundary Layers <i>Yongling Zhao, Chengwang Lei and John C. Patterson</i>	104 Performance of Cold Sprayed Near-net Pyramidal Shaped Arrays under Forced Convection <i>Philippe Dupuis, Yannick Cormier, Antoine Corbeil and Bertrand Jodoin</i>
255 Numerical Investigation of Heat Transfer from Eye to the Thermal Plume around a Human Body <i>Farnaz Feyli, Omid Abouali, Mahmood Yaghoubi and Goodarz Ahmadi</i>	179 Numerical Analysis of Nanofluids Convective Heat Transfer with Mixture Model Approaches <i>İsmail Ozan Sert, Nilay Sezer-Uzol and Sadık Kakaç</i>
216 Interaction of Rayleigh-Benard Convection and Oscillatory Flows <i>Semih Çetindağ and Murat K. Aktaş</i>	244 Effect of Nanoparticles on Pool Boiling Characteristics <i>Artem Nikulin, Andrii V. Melnyk, Yury V. Semenyuk, Mykola Lukianov and Vitaly P. Zhelezny</i>
10:20 – 10:40	Coffee Break
10:40 – 11:00	254 3D Conjugate Natural Convection with Surface Radiation in an Enclosure <i>Semen G. Martyushev, Igor V. Miroshnichenko and Mikhail A. Sheremet</i>
11:00 – 11:20	314 Stability of Nanofluids – A Critical Review <i>Eylül Şimşek, Elif Begüm Elçioğlu and Tuba Okutucu-Özyurt</i>
11:00 – 11:20	220 Fluid Flow Mixing for Heat Transfer Enhancement in Communicating Converging and Diverging Channels <i>Tuncay Yılmaz and Mehmet Tahir Erdinç</i>
11:00 – 11:20	315 Turbulent Flow of Nanofluids through a Rectangular Cavity <i>Chahra Abdellahoum and Amina Mataoui</i>

12:20 – 11:40	<p style="text-align: center;">76 Experimental Investigation on Convective Heat Transfer Enhancement by EHD</p> <p style="text-align: center;"><i>Merouane Hamdi, Michel Havet, Olivier Rouaud and Dominique Tarlet</i></p>	<p style="text-align: center;">317 An Experimental Study on Performance Enhancement of CMOS Compatible Monolithic Microchannel Heat Sinks</p> <p style="text-align: center;"><i>Aziz Koyuncuoğlu, Göker Türkakar, Matthew Redmond, Tuba Okutucu-Özyurt, Haluk Külah and Satish Kumar</i></p>
	Lunch Break	
14:00 – 14:45	<p>PLENARY SESSION Combined Experimental and Numerical Simulation of Convective Transport <i>Yogesh Jaluria (USA)</i> Chair: S.A. Sherif</p>	
	PARALLEL SESSIONS	
	MILETUS	PIRENE
	Session 13: Phase Change 3	Session 14: Thermal Systems 2
	Chair: Murat Aktaş	Chair: S. A. Sherif
14:50 – 15:10	<p style="text-align: center;">185 Innovative Heat pipes and Nanotechnologies</p> <p style="text-align: center;"><i>L. Leonard Vasiliev, L. P. Grakovich, M. I. Rabetsky and L. L. Vasiliev Jr.</i></p>	<p style="text-align: center;">27 Inverse Method Determination of Heat Transfer Coefficient and Ceramic Mold Material Parameters in Investment Casting Process</p> <p style="text-align: center;"><i>Nicolas Viens, Mohammed Lachi, Christian Bissieux, Patrick Priot, Christophe Lecllet, Stéphane Sicot and Antoine Gaucher</i></p>
	<p style="text-align: center;">113 Experimental Investigation of Flow Boiling Characteristics of Siloxanes and Siloxane Mixtures in an Horizontal Tube</p> <p style="text-align: center;"><i>Theresa Weith, Florian Heberle and Dieter Brüggemann</i></p>	
15:30 – 15:50	<p style="text-align: center;">202 Thermoeconomic Analysis of Heat Recovery Steam Generators for Steam Injected Gas Turbine Cycles</p> <p style="text-align: center;"><i>Hasan Kayhan Kayadelen and Yasin Üst</i></p>	
	<p style="text-align: center;">206 Parametric Analysis of Confined and Unconfined Nucleate Boiling</p> <p style="text-align: center;"><i>Elaine Maria Cardoso and Roberto de Almeida Andrade</i></p>	
16:10 – 16:30	Coffee Break	

16:30 – 18:30

POSTER SESSION B

20:00 – 23:00

Gala Dinner

Friday, June 13, 2014

		PARALLEL SESSIONS	
		MILETUS	PIRENE
		Session 15: Phase Change 4	Session 16. Porous Media 2 / Mass Transfer 2
		Chair: Leonad Vasiliev	Chair: Jacques Padet
09:00 – 09:20	224 CFD Modeling on Flow Characteristics of Two Phase Flow in Solenoid Valves	226 Numerical Investigation of a 5 kW Power Porous Medium Burner	
	<i>Nuray Kayakol</i>	<i>Tanju Ergen, Onur Tuncer and A. Cihat Baytaş</i>	
09:20 – 09:40	95 CFD Calculation of Evaporation Rate with Account for Volume Condensation	304 Double Diffusive Convection and Thermodiffusion of Nanofluid in a Square Cavity with Different Configurations	
	<i>Nikolay Vinnichenko, Alexander Uvarov, Yulia Plaksina and Olga Yakimchuk</i>	<i>Amirhossein Ahadi and M. Ziad Saghir</i>	
09:40 – 10:00	243 The Local Heat Transfer Coefficient Variation at the Boiling of the Isobutane/Compressor Oil Solution Flow in the Pipe	143 Analytical Approximation and Numerical Solution of Electrically Conducting Fluid Flow over a Stretched with the Nonlinear Velocity in a Porous Medium Filled by a Nanofluid	
	<i>Andrii V. Melnyk, Artem Nikulin and Vitaly P. Zhelezny</i>	<i>Habib-Olah. Sayehvand, Amir Basiri Parsa and Leila Shamekhi</i>	
10:00 – 10:20	94 Wavelet Galerkin and Wavelet Collocation Method in Moving Boundary Problem with Temperature Dependent Thermal Physical Properties	286 Numerical and Experimental Investigation of a Porous Medium Burner	
	<i>Sarita Yadav, Subrahmanayam Upadhyay and Kabindra Nath Rai</i>	<i>Yusuf Ata and A. Cihat Baytaş</i>	
10:20 – 10:40	Coffee Break		
		MILETUS	
		Session 17: Forced Convection 3	
		Chair: Mohammed Lachi	
10:40 – 11:00	288 Swirl Flow Formations in Cooling Ducts		
	<i>Martin Bruschewski, Christian Scherhag, Sven Grundmann and Heinz-Peter Schiffer</i>		

11:00 – 11:20	<p style="text-align: center;">70</p> <p>1D Simulation for the Temperature Distribution Inside a Hot Water Storage Tank on the Condition of Having Temperature Gradient Around Horizontal Buoyant Jet</p> <p style="text-align: center;"><i>Masaki Toyoshima and Seiji Okawa</i></p>	
	MILETUS	
11:30 – 12:00	<i>Closing Session</i>	

Poster Session A Tuesday, June 10 16:30 – 18:30

P	32	<u>Yassine Kabar</u> , <u>Mourad Rebay</u> , <u>Rachid Bessaih</u> and <u>Yassine Demagh</u>	Numerical Study of Single-Phase Forced Convection in Microchannels with Wall Effects
P	35	<u>Draco Iyi</u> , <u>Reaz Hasan</u> and <u>Roger Penlington</u>	Effects of Blockages on Natural Convection Turbulent Airflow and Heat Transfer in a Cavity
P	114	<u>El Abrach Hussein</u> , <u>Amami Bayçain</u> , <u>Dahri Hacem</u> and <u>Mhimid Abdallah</u>	Hydrodynamic Behaviours of an Isotropic Deformable Porous Media Using the Lattice Boltzmann Method
P	127	<u>Dong-Hyeog Yoon</u> , <u>Ae-Ju Cheong</u> , <u>Young Suk Bang</u> and <u>Sweng Woong Woo</u>	Evaluation of Turbulence and Mass Transfer Models on Scalar Dispersion in Turbulent Annular Flow
P	131	<u>Syham Kadri</u> , <u>Mohammed Elmir</u> and <u>Razli Mehdaoui</u>	Effect of the Inclination Angle of the Vibratory Excitation and the Magnetic Field on the Convection in Nanofluids
P	139	<u>M. N. Bouaziz</u> and <u>A. Aziz</u>	An Improved Approximate Method for Determining the Efficiency of the Convective-Radiative-Generating Fin with Temperature Dependent Thermal Conductivity and Internal Heat Generation
P	142	<u>Abdelhakim Settari</u> , <u>R. Nebbali</u> , <u>B. Madani</u> and <u>S. Abboudi</u>	Improved Steam Methane Reforming Reaction over a Catalyst Surface Using a Metal Foam Support
P	145	<u>Brahim Mahfoud</u> and <u>Rachid Bessaih</u>	Three-dimensional Swirling Flows with Heat Transfer in a Cylindrical Enclosure under Axial Magnetic Field
P	167	<u>Najla El Gharbi</u> and <u>M. El Ganaoui</u>	Optimization Study of Tube Bundle Cross-Flow for Different Tube Shapes in a Boiler
P	194	<u>A. Filali</u> and <u>L. Khezzer</u>	Finite element simulation of the Graetz problem in an elliptic duct for a viscoelastic fluid
P	199	<u>Ziyaddin Recebli</u> and <u>Selçuk Selimli</u>	Convective Heat Transfer Numerical Analysis of MHD Steady State Laminar Lithium Pipe Flow
P	204	<u>A. N. Lumpova</u> , <u>E. E. Son</u> and <u>P. T. Zubkov</u>	Numerical Simulation of Turbulent Flows of Thermoviscous Fluids in Channels with Different Temperature Dependence of Viscosity
P	209	<u>M. S. Khabbouchi</u> , <u>M. S. Guellouz</u> and <u>S. Tavoularis</u>	Effect of a Moving Wall Proximity on the Near Wake of a Circular Cylinder (presented as oral)
P	223	<u>A. N. Doludenko</u> , <u>S. V. Fortova</u> and <u>E. E. Son</u>	Numerical Simulation of the Rayleigh-Taylor Instability of Inviscid and Viscous Fluid
RWP	34	<u>A. N. Doludenko</u> and <u>E. E. Son</u>	DNS Simulation of Viscous Plastic Turbulent Flows
RWP	40	<u>Nabil Bessanane</u> , <u>Mohamed Si-Ameur</u> , <u>Anis Hamza</u> , <u>Jean-Pierre Daguerre</u> and <u>Mourad Rebay</u>	Numerical and Experimental Study of the Fluid Flow in Diamond Shaped Heat Sink
RWP	41	<u>Selçuk Selimli</u> and <u>Ziyaddin Recebli</u>	MHD Steady State Turbulent Liquid Metal Duct Flow Convective Heat Transfer Analysis
RWP	48	<u>Nabil Benyahia</u> , <u>Mohamed Aksouh</u> and <u>Amina Mataoui</u>	Effect of Surface Radiation on the Turbulent Natural Convection Flow
RWP	57	<u>Alberto E. Quintero</u> and <u>Marcos Vera</u>	Wall Conduction Effects in Laminar Counterflow Parallel-plate Heat Exchangers with Small Scale Wall Corrugations
RWP	87	<u>Noureddine Hadidi</u> and <u>Yacine Ould-Amer</u>	The Study of the Double Diffusive Convection Two-dimensional in a Bi-layered Porous Enclosure

RWP	126	<u>Wenjuan Wu, Bin Chen, Dong Li, Guoxiang Wang, and Linzhuang Xing</u>	Dynamic Characteristics of Vascular Morphological After a 1064nm Laser Pulse Exposures
RWP	130	<u>Razli Mehdaoui, Mohammed Elmir, Syham Kadri and Abdelkrim Missoum</u>	Effect of the Inclined Porous-Fluid Interface on the Natural Convection in Partially Porous Enclosure
RWP	138	<u>M. N. Bouaziz and Z. Benharkat</u>	Heat and Mass Convection for MHD Rotating Fluid Past a Semi-infinite Vertical Moving Plate with Hall Effect
RWP	144	<u>Djedid Taloub and Abdelhadi Beghidja</u>	Effect of Heat Flow on the Turbulent Structures in a Cavity Differentially Heated
RWP	156	<u>Ahmed Zineddine Dellil and A. Azzi</u>	Numerical Investigation of the Impact of a Radiative Wall in an Annular Space
RWP	159	<u>Mohamed Kherief Nacereddine, S. Benissaad, F. Berrahil and K. Talbi</u>	Effect of Magneto-Hydrodynamic on Natural Convection Flows in a Tri-Dimensional Rectangular Enclosure
RWP	326	<u>Changwoo Kang and Kyung-Soo Yang</u>	Heat Transfer Enhancement in Turbulent Ribbed-pipe Flow

Poster Session B Thursday, June 12 16:30 – 18:30

P	67	Maryem Dahmeni, Maher Ben Chiekh, Anis Hamza and Mourad Rebay	Numerical Analysis of Convective Heat Transfer in a Pin Fin Heat Sink under Non Uniform Heat Flux Conditions
P	82	Benitha Sandrine Umurigirwa, Chadi Maalouf and Ton Hoang Mai	Hygric Performances of Hemp–starch Concrete
P	88	Ahmed Kouidri, B. Madani, B. Roubi and A. Hamadouche	Experimental Study of the Upward Forced Convection between Two Heated Plates
P	98	Nadim El Wakil, Jacques Padet and Renato M. Cotta	Transient Mixed Convection in a Plane Vertical Channel
P	129	Ali Alhelfi and Bengt Sunden	Fluid Dynamics and Thermal Transport of a Gas Bubble in Varying Sound Fields
P	230	Abderrahim Bourouis, Abdeslam Omara and Said Abboudi	Conjugate Mixed Convection Heat Transfer in a Lid-driven Cavity Partially Occupied by a Vertical or Horizontal Porous Medium
P	258	E. Victorovna Korobko, A. A. Makhaneck and N. A. Bedik	Simulation of Hydromechanics and Heat Transfer of Electrocontrolled Fluids in Narrow Channels-Capacitors of Special Heat Exchanger Devices
P	260	Victor Vasilyev, Svetlana Vinokurova and Svetlana Kotova	Control in Scale of Generated Vortexes at an Input in Not Round Interrupted Ducts with the Purpose of Realization of a Rational Enhancement of Convective Heat Exchanger
P	266	Leon Boguslawski	Influence of the Flow Turbulence on Heat Convection on a Sphere
P	267	Fariborz Ahmadi, M. H. Abedini-saniji, M. Yaghoubi and E. Goshtasbirad	Three Dimensional Numerical Study of AL_2O_3 -Therminol VP1 Oil Nano-fluid on Heat Transfer Enhancement from an Absorber Tube of a Parabolic Trough Collector
P	277	Naim Akkouche, Mourad Balistrou and Mohand Tazerout	Experimental and Kinetic Study of Syngas Produced by Pyrolysis
P	301	Sung Wan Son, Man Yeong Ha and Hyung Rak Kim	A Numerical Study on the Behaviour of the Water Meniscus Formed between A Flat Surface and a Flat or Circular Tip
P	307	Ersin Sayar and Bakhtier Farouk	A computational study on transducer material selection in Bulk Acoustic Wave piezoelectric valveless micropumps
P	323	Nahla Bouaziz, Dorra Lounissi and Ridha Ben Iffa	Energy and exergy analysis of a double stage hybrid heat pump operating with water ammonia
P	329	Fatiha Bentarzi, Mourad Rebay and Amina Mataoui	Modelling of Hydrodynamic and Thermal Behaviours in Impinging Twin-Jets
RWP	93	Abdelkarim Maamar and Bounegta Bachir	The Inverse Problem in the Identification of a Heat Flux
RWP	168	S. Khaldi, A. N. Korti and Said Abboudi	Numerical Study of the Dynamic and Thermal Behaviour of a Solar Dryer Having a Reverse Absorber and a Porous Bed for Storage
RWP	170	Amr Elazhary and Hassan Soliman	Entropy Generation in Parallel-plate Micro-channels with an Applied Electric Field
RWP	198	Abdelkrim Missoum, M. Elmir, A. Belkacem, B. Draoui, A. Slimani and R. Belarbi	Numerical Simulation of Coupled Heat Transfer through Building Facades in the Arid Zone
RWP	208	Zellagui Redouane and Bellaouar Ahmed	Influence of Temperature on the Crack Propagation
RWP	211	Seok Ho Yoon, Jae Hyun Lim, Jang Min Park, Dong Wook Oh and Sang Jin Park	Experimental Study on the Thermal Performance of Polymer Primary Surface Heat Exchanger with Various Surface Shape

RWP	249	<u>Taecheon Kim</u> , <u>Kyu Hyung Do</u> , Byung-il Choi, Yong-Shik Han and Myungbae Kim	Numerical Study for Leakage Flow Characteristics of a Valve System
RWP	292	<u>Ouahiba Benouared</u> and Mahmoud Mamou	Numerical Study of Subcritical Thermal Convections in Non-Newtonian Fluids
RWP	299	<u>Kyu Hyung Do</u> and Yogendra Joshi	A Comparative Investigation of Data Centers with Different Cooling Schemes for Energy Efficient Thermal Management
RWP	302	<u>Rahim Jafari</u> and Tuba Okutucu-Özyurt	Numerical Simulation of the Surface Roughness Effect on Flow Boiling in Microchannels