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Parthasarathy) 12562— Temperature field of s	NENT 19375— Evaporative Cooling in a clay pot	17556- Optimal Design of Longitudinal-Fin Heat Sinks Accounting for Simultaneously Developing Flow and Conjugate Effects (Author - Georgios	Industrial Process I 18457 - Modeling Polymer Sheet Breakup for	nano-scale solid materials	17458 - Numerical study of the contaminants		1				
17567— Temperature field of si Mon 9:23 AM enfractometric detector in head	validation (Author - Sidnarth Chairsdarts)	Flow and Conjugate Effects (Author - Georgios Karamanis)	Devolatilization Processes in Steam Contactors (Author - Bradley Shindle)	17515— Hydrodynamic Cavitation behind a Pillar (Author - Arash nayebzadeh)	17458 - Numerical study of the contaminants transport and distribution in the airliner cabin environment (Author - Yihuan Yan)	1869- DROPLETS MOVEMENT AND COALESCENCE IN HYDROPHORIC MICROCHANNEL (Author - Yongping Chee)					
	19011 – Estimation of internal heat transfer coefficient in three-dimensional ducts through t indianely (Matchional approach: preliminary res (Mathor - Mancelo I Colaco)	he afts (Author - Lingen Chen)	18332 A Gas-dynamic model for the role of mixing in ejector performance (Author - David	17311 - Transient local resolution of flow boiling is a micro channel with a pin fin (Author - Yingying Wang)	18349 - Heat Mass Transfer Analysis on the Effects of Fountains to the Thermal Comfort of A Semi-	17859 - Boiling Heat Transfer Distribution in Helical Colls (Author - Handik Kothadia)]				
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1754— Methodology to deter	Nahmkeon Hurl subility 17999— A Localized RBF-MQ Meshless Method	For 17430 - HEAT TRANSFER IN THE TRANSITIONAL FLOW REGIME IN A CIRCULAR TUBE WITH TWISTED TAPE INSERT AND RE-ENTRANT INLET (Author	18574 Numerical study of heat transfer	17117— EXPERIMENTAL INVESTIGATION OF FLUID CONVECTION NEAR AN EVAPORATING WATER MENISCUS IN A HORIZONTAL CAPILLARY (Author-	18368 - Effective thermal expansion coefficient of	17985 - The effect of heating direction on flow					
Pando)	Nabizadeh Shahrebabak)	Sogo Mayokun Abolarin)	Isink (natural convection) (Author - SULIMAN MOHAMED MOHAMED ALI)	Tapan Kumar Pradhan)	(Author - Laurent Pilon)	boiling heat transfer of R134a in micro-channels (Author - Li IIa)					
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Mon 11:00 am-12:30 pm Technical Sessions Combustion, Fire : Analytical Met	Computational Methods/Tools in Thermal-fluid Systems III	Transfer -Heat Transfer Applications I	Industrial and Commercial Processes Passive Cooling Systems	Flow Heat Exchange in Micro and Nanosystems	Energy, Water, and Sustainability 7 - Thermal Energy Storage	Two phase Flow 4 - Flow boiling and evaporation I	Heat/mass transfer at high temperatures	Heat/mass transfer in porous media	Micro/Nano Heat/Mass Transfer	Radiative heat transfer	Advanced energy systems
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17709 - Contaminated Fuel Fin	EAuthor - Alibek Issakhovi	17450 - Numerical Study of the Effect of Triangular Surface Waves of Varying Height on Natural Convective Heat Transfer from an Upward Facing Heated Isothermal Horizontal Surface (Author -	17502 Heat loss from a pipe buried in saturated		17409 - SEASONAL STORAGE OF HEAT IN SEMI-	17996 – Experimental studies on the effect of inlet subcooling on flow boiling best transfer in microchannel (Author - Praxanna Jayaramu)	18500— Novel low melting point binary nitrates for thermal energy storage applications (Author - Ying	or 17743 Nano insulation Materials and the g Utilization of Hollow SII-ca Nanospheres (Author- Rigen Petter Jelle)	17618 - DISPERSION STABILITY OF BINARY BORON NITRICE AND ALUMINA NANOR LIDS (Author -	17764 - Tempering hemispherical radiative properties of ITO-glass with nano-imprinted circular pillars (Author - Yu-Bin Chen)	
Mon 11:36 AM Sensitivity of Resuspension and Krolution (Author - Alexander B	with Localised Heat Sources (Author - Sajad Alimohammad)	Heated Isothermal Horizontal Surface (Author - Patrick H Costhulpen)	soil (Author - Mohammad Haghighli)	18110 - Nanowires for Enhanced Spray Cooling Heat Transfer (Author - Jiannan Chen)	FLOODED CAVITIES (Author - Halkel Ben Hamed)	subcooling on flow boiling heat transfer in microchannel (Author - Prasanna Jayaramu)	thermal energy storage applications (Author - Ying Li)		Songping Mo)		27686— Vibration analysis on energy saving for Datacenters using Optical Wireless Communication (OWC) (Author - Kai Zheng:)
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Mon 12:30pm - 1:30pm Lunch	'			•	•		•	•		•	
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Mon 1:30pm - 2:15pm Jose Lage NSF 2:15pm - 2:20pm (Break to walk to session)											
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9:00am - 9:00am	n (break to walk to sessions)	IWHT Plenary Lecture												
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	Session Chair Session Co-Chair		Nicholas D Francis Co-Chair	TRA Co-Chair	Zhisiong Guo Roy Hogan	TBA Co-Chair	Ahmad Fakheri	XII Duan, Alex Rattner	TRA	TBA Co-Chair	TEA	eREF1 Co-Chair	TBA	TRA
9:15am - 10:45am	m Technical Sessions		Computational Methods/Tools in Thermal-Fluid Systems - Computational Fluid Dynamics I	Experimental Methods/Tools and Instrumentation III	Fundamentals in Fluid Flow, Heat, Mass and Momentum Transfer I	Industrial and Commercial Processes Special Topics II	Other Related Areas	Two phase Flow 1-Nanofluid transport phenomena	Two phase Flow 7- Condensation	CFD and numerical heat/mass transfer	Heat/mass transfer enhancement techniques	Multiphase heat/mass transfer	Co-Chair TFEC - Fundamental Fluid Flow and Heat Transfer - Heat Transfer Applications I	Multiphase heat/mass transfer
9:15 AM			17634 - Simulation of particulate fouling and its influence on heat transfer and friction loss on structured surfaces (Author - Robert Kasper)	18342 — Comparison of a Traditional Heat Sink versus a Vapour Chamber Heat Sink Cooled by Forced Convection (Author - Nicolas Baudin)	18148 - Equation Of State And Phase Behavior Of Working Nanoffulds (Author - Olesky Buyadgie)	18337 - NUMERICAL STUDY ON THE CRITICAL PRESSURE POWT OF ICE FORMATION IN THE PROCESSING OF METHANE HYDRATE DISSOCIATION BY OEPRESSURGATION METHOD	17776 - Laser-Assisted Manufacturing of Bi2Te3- based Thermoelectric Module Combined with Ink Dispensing Printing Technology (Author - Tao	18029 - Effect of Particle Morphology on Nanoffulds Laminar Forced Convection (Author- Fang Liu)	17549 - Research on condensation oscillation characteristic of steam submerged unstable jet condensation (Author - Daotong Chong)	17631 – The influence of crack size on LNG leakage characteristics in a Confined Space (Author - Joo Won)	17806 - Experimental investigation of Fonced convection heat transfer over a plate with notice plate (Author - Rupesh Yadavi)	18815 - STEAM ENGINE-PUMP WITH PERCUSSIVE BOUING (Author - Evilikhi Machavariani)	17297 - Li-ion Sattery Thermal Management - Air vs. Liquid Cooling (Author - Taeyoung Han)	17617— Thin Film Evaporation of Liquid Nitrogen on a Micro Structured Surface (Author - XII Duan)
9:33 AM			17473— A DYNAMIC LARGE EDDY MODEL FOR SIMULATING TURBULENT REACTIVE FLOW (Author- David Carrington)	17621 - An Experimental Study of Vapor Ejectors Working with 9245fa (Author - Janyong Chee)	17509 - CRITICAL CONDITION FOR THERMAL CONVECTION OF BINGHAM FLUIDS IN RECTANGULAR BAYLEIGH BENARD CONFIGURATION (Author - Sahin Yigit)	Wather - Husichi Han) 18060 - THERMAL ANALYSIS OF THE REMOVAL OF PARAFFIN BLOCKAGES IN OIL PIPELINES VIA THE WITROGEN GENERATING SYSTEM (SGN) (Author- HELICO CRIANCE)	chang) 17677— Thermal and Lagrangian transport analysis of chaotic advection in 20 anisotropic porous media (Author - Stephen Varghese)	s 18407— A molecular dynamics simulation on the cavitation of water with nanoparticles (Author- Min Chen)	17775- Condensation Heat Transfer	18209— Study on the natural circulation under rolling condition by using CFD methodology (Author - Tenglong Cong)	17645 - THT FIN SIDE FLOW AND HEAT TRANSFER CHARACTERISTICS OF CIRCULAR TUBE BANK FIN HEAT EXCHANGES WITH THE TRANSULARWAY FINS (Author - Liang-BI Wang)	17553 - Visualization of droplet condensation in membrane distillation desalization with surface modification: hydrophilicity, hydrophobicity, and wicking spacers (Author - David Warninger)	18094 - NUMERICAL SIMULATION ON THE COUPLED WATER-HEAT-STRESS FIELD OF FROZEN SOIL AROUND THE CRUIC OIL PIPELINE WITH THERMOSYPHONS PAUTHOR - Lichao Fang)	18008 - Experimental Study For The Reflood Behavior of the Nuclear Reactor in Medium And High Pressure Conditions Using 2x3 Heater Bundle (Author - Jongrok Kim)
9:51 AM				18145 - Investigation of Heat Transfer Coefficient for Non-circular duct with twisted tape insert (Author - Rupesh Yadav) 18548 - DITERMINATION OF THE EFFECT OF	18233 - Lattice Boltzmann simulation of 3-D lid- driven mixed convection with double MRT model (Author - Hong Tao Xu)	TEA	\$8082 - Modifying interfacial composition of yttria stabilized zirconia electrolyte by plasma enhanced atomic layer deposition (Author - Wonjong Yu)	18120 – NUMERICAL INVESTIGATION ON THE TURBULENT CONVECTIVE HEAT TRANSFER OF NANOFLUID FLOWS IN A UNIFORMALY HEATED PIPE (Author - Ghofrane Sekrani)	17720 - A theoretical model for the design modeling of biphilic surface (Author - Smreeti Dahanja)	17870 — Mixed Convection of CuO-Water Nanofluid in a Square Enclosure with an intruded Rectangular Fin (Author - Prodip X. Das)	17523 - Experimental Study on the Pool and Flow Boiling Heat Transfer Enhancement for Silicon Chips with Microstructured Surfaces (Author - Jinj Wel)	17579 - NUMERICAL SIMULATION OF FULL FLOW HIAT TRANSFER PROCESSES AND POST-DRYCOUT IN MIST FLOW REGION IN ONCE-THROUGH STEAM GENERATORS (Author - Janxin SHI)	18399 - Hybrid MD-LBM method for fluid flow based on the continuous and discrete velocity distribution functions (Author - 2i-Xiang Tong)	18073- NUMERICAL SIMULATION ON VERTICAL UPWIRD GAS-LIQUID ANNULAR FLOW BASED ON THE S-CLSVOF METHOD (Author - Yajun Deng)
10:09 AM				DIFFERENT INLET AND OUTLET WATER ORGULATION TEMPERATURES ON THE FLOW FIELD ARDUNED A PANEL RADIATOR USING PIV (Author - Temper Caldid	17652— Hydrodynamic and thermal analyses in a boundary layer flow over a concave / convex plate (Author - Larissa Marques)	TEA	19597 - Impact of an online learning environment on student performance and perceptions in a fluid mechanics course (Austror - Yitong Zhao)	17275 - TOWARDS A CFD MODEL OF AIR- NANOFLUID BURBLY FLOWS IN A VERTICAL TUBE (Author - Yang Yuan)	18281 — Droplet coalescence and departure mechanisms on flexible flapping films (Author - xi cheo)	18322 - Fast Simulation Technology of Hydraulic and Thermodynamic Calculation in Natural Gas Pipeline Network Based on GPU (Author - Yue Xiang)	17326 - SURFACE HEATTRANSFER CHARACTERISTICS DURING TRANSENT SPRAY COOLING (Author - Bin Chen)	17630— Mass transfer effects on flow pattern and slug hydrodynamics of liquid-liquid two-phase flow in microchannels (Author - Zan Wu)	18521 - Numerical simulation of all return in compressor gas-liquid separator (Author - Rui Ma)	18073- NUMERICAL SIMULATION ON VERTICAL UPWIRED GAS-LIQUID ANNULAR FLOW BASED ON THE S-CLSVOF METHOD (Author - Yajun Deng)
10:27 AM	m Coffee Break		37674—THESE-OWNENSIONAL LANGE EDDY SIMULATIONS OF NATURAL CONVECTION IN LATERALLY HEATED CHINDRICAL ENCLOSURES WITH RACKS AND SEEDS FOR CRYSTAL GROWTH SAuthor - Hooman Enaugh	18915 - THE USE OF CAPACITIANCE TRANSDUCER FOR THE STUDY OF CONDENSATION PROCESSES IN THE LAVIAL-HIKE LOW TEMPERATURE RANGE HEAT PRES (Author - Arkadiy Seryakov)		TEA	18190 - Using Spreadsheets for Teaching fluid mechanics and Heat Transfer (Author - Ahmad Sakheri)	17456 - TWO PHASE FLOW BOUNG HEAT TRANSFER COEFFICIENT AND PRESSURE DROP OF REFRIGERANT AND 7-4020 BASED NAN OLUBRICANT MIXTURES IN A 9.5 MM SMOOTH TURE (Author - Andres Birl)	17091 - Effects of non-condensable gases on mini channel flow condensation (Author - si chee)	18097 - NUMERICAL STUDY ON BATCH TRANSPORTATION OF CRUDE OIL PRPELINE WITH DIFFERENT OUTLET TEMPERATURES (Author - Qing Yuan)	17390 - Drogwise Condensation Heat transfer on Hydroghobic Sine-shape Micro-grooved Surfaces (Author - baojin ql)	17530 – Characteristics of Evaporating Thin Layer for Sessile Nanofluid Droplet on Hydrophilic Surface (Author - Dae Yun Kim)	17908 - Experimental investigation on the effect of a nowl finned tube generator on the optimisation of a solar powered refrigerator using MH3-CaO2 working pair and activated carbon (Author - Amir Hossein Ghahnemani)	2 18073 - NUMERICAL SIMULATION ON VERTICAL UNWARD GAS-LIQUID ANNULAR FLOW BASED ON THE S-CLSVOF METHOD (Author - Yajun Deng)
10.43411-11.00411	Session Number		52	53	54	55	56	57	58	59	60	61	62	63
	Session Chair Session Co-Chair		Kevin Dowding, David Pratt Co-Chair	Computational Methods/Tools in	TBA Co-Chair	Zhixiong Guo James Hartley	Lorenzo Cremaschi Sethi Ankit	TBA Co-Chair	XII Duan, Wojciech Lipinski, Alex Rattner Co-Chair	TBA Co-Chair	TEA Co-Chair	TBA Co-Chair	Olesiy Buyadgie Co-Chair	Savid Veteri Co Chair Mirror and Namo, Scale Systems 2.
11:00am - 12:30pr	m Technical Sessions		Aerospace Applications	Computational Methods/Tools in Thermal-Fluid Systems - Computational Fluid Dynamics II	Experimental Methods/Tools and Instrumentation IV	Fundamentals in Fluid Flow, Heat, Mass and Momentum Transfer II	Low GWP refrigerants within the context of Kyoto Protoco	Two phase Flow 10- Dispersed two- phase flows, jets, and films	Two phase Flow 8- Multiphase flow in porous medium, fluidized bed and other complex geometry	Advanced energy systems	CFD and numerical heat/mass transfer	Heat/mass transfer enhancement techniques	Heat/mass transfer in renewable and clean energy systems	Micro and Nano-Scale Systems 2- Convective Heat processes in Micro Arrangements
11:00 AM			BEESE— UNCERTAINTY ESTIMATION FOR THE SPATIAL AND TEMPORAL RESOLUTION IN DETAILS EDGY SIMULATIONS (DES) OF TRANSONIC FLOW OVER AN OPEN CANTY (Author- Datushis Buss)	18415— CFD simulation to evaluate the insulation performance of the vapor cooled shield in a liquid hydrogen tank (Author - Gwang Hoon Rhee)	17727 Material Thermal Properties Analysis of Sapphire and Silicon Nitride Using Cryogenic Cycling (Author - Sonya Smith)	18504 Particle size and speed effects on the owneping convection in straight, isoflux channels (Author - Jose Lage)	19682 - Recent Developments in Low GWP Refrigerants for Refrigeration and Air Conditioning (Author - Joshua Hughes)	17511 - Experimental Investigation of Surface Flows and Heat Transfer Induced by Hinxagonal Onspiet Implingement Array (Author - Jorge Alvarado)	1826 - VISUAL EXPERIMENT ON PERFORMANCE OF R126-DMAC BURBLE ABSORPTION PROCESS IN A VERTICAL TURE (Author - Menghan Jiang)	17795 - MULTI-OBJECTIVE OPTIMIZATION OF S- CO2 RECOMPRESSION BRAITON CYCLE INTEGRATED INTO EXISTING MATURE MOLTEN SALT POWER TOWER (Author - Kun Wang)	27443 Numerical simulation of unsteady natural convection in a water filled cavity with hot partitioned wall (Author - FARAH ZEMANI-KACI)	18128 – Experimental investigation of flow and convection heat transfer of CO2 at super-critical pressures in small vertical tube with helical wire insert (Author - Chao Xiong)	18244— Low-grade Steam generation with non- concentrated Minichannel-based solar collector (Author - Gerardo Diaz)	17515 - Hydrodynamic Cavitation behind a Pillar (Author - Arash nayebzadeh)
11:18AM				BR17 - Numerical Study of Contoured Endwall Flow and Heat Transfer With Combustor Coolant and Film Cooling Flows for a Turbine Nozale Guide Vane (Author - Mahmood H. Algell)	18284 - Implementation of Focused Pienoptic Time-Resolved 3D-PTV in the Analysis of a Vortex Flow (Author - David Nobes)	17773— Modelling of electrically-assisted friction stir welding (Author - Jun Zhou)	19674 – Simulated Case Studies of Flooded Evaporators with R1234ze (and others) vs. R134a (Author - John Thome)	17936 – Simulation of supersonic injection of Aerated Liquid Jet (Author - Khalled Sallam)	17666- CFO Simulation of Coal Gasification in a Bubbling Fluidbed Bed Reactor (Author - Francine Battaglia)	18467 - TRANSIENT NUMERICAL STUDY OF NOVEL COMPOSITE ADSORBENT FOR COOLING APPLICATIONS (Author - Southy Mitra)	SEGGE - NUMERICAL SIMULATION OF DEOPLET IMPACTING ON CHEMICALLY STRIPED PATTERNED SUBSTRATE (Author - Hong Wang)	17538 - Comparative Study of Pool Boiling Heat Transfer from Microchannel of different Geometries (Author - AVCHOOT WALLING)	18095 - Numerical Modelling of Large Length-to- Diameter Ratio Vertical Concentric-Tube Ground- Coupled Heat Exchangers (Author - John Chal)	17313 - Transient local resolution of flow boiling a micro channel with a pin fin (Author - Yingying Wang)
11:36 AM			17566 - Numerical Study of the Effects of Tip Clearance and Inlet Diffusion on Inducer Backflow (Author - Tate Fanning)	1865— Comparison of CFD analysis aimed to identify possible contamination spots in urban areas, between models generated with Drone canning, and traditional hand maked models (Author - Jose Manuel Cuevas Zarate)	18340 - Two-Phase Flow Regime Identification Through Local Temperature Mapping (Author - Alan O'Donovan)	17613 Hydrophobic Steel Surfaces with Micron- Scale And Sub-Micron Structures From Laser Fabrication (Author - XII Duan)	xxxx – Introduction on LGWP refrigerants (Author: Sethi Ankit)	17995 - NUMERICAL SIMULATIONS OF PARTICLE DISPERSION IN A CIRCULAR SHEAR LAYER (Author- Jordi Pallanes)	17757 - Metal-coide based chemical looping for carbon dioxide capture and thermal energy storage: thermal transport and thermochemical coversion is single reacting particles (Author- Wojciech Lipinski)	18827 - Experimental Study on Pump Applied in Organic Rankine Cycle System (Author - Welcong Xu)	ETGT1 NUMERICAL STUDY OF FLUID FLOW AND MEAT TRANSFER CHARACTERISTICS OF AN IN-LINE CRICULAR TUBE BANK FIN HEAT ISIDHANGER WITH PUNCHED OUNNE DELTA-MANGLET VORTEX CENERATORS (Author - Liang-68 Wang)	18067 – Heat Transfer Characteristics of Single- 4 Phase Liquid Impingement Jet on Nanowine Coated Surface (Author - Namkyu Lee)	18269 - Thermodynamic cycle analysis for an idea d NG-204/NO-FeO redox reaction (Author - Yong Shuai)	19929 - FLOW BOILING HEAT TRANSFER IN MICROCHANNEL EFFECT OF INLET TEMPERATURE (Author - Prasanna Jayarama)
11:54 AM				1842 - Investigation on the Flow Behavior of the Tire Drainage via CFD and Experimental Studies (Author - Year-Der Kuan will be presented by Mr. Chih-Yao Chen.)		19675 An analysis of turbulent Prandtl number in flows over a wedge using DNS (Author - Seongwon Kang)	oox Comparative Analysis of Natural Refrigerants versus Low GWP HFO Refrigerants (Author - Zahid Ayub)	s upationemporally resolved heat transfer in falling- film flows by laser-induced fluorescence, particle tracking velocimetry and infrared thermography (Author - Alexandros Charpelannis)		19202 — Theoretical Analysis of a Pulse-tube Stirling Cooler (Author - Yu-Ting Lin)	SESSE- EFFECT ON NUMBER OF BLOCKS ON THE PERIODIC NATURAL CONVECTION INSIDE AN ENCLOSURE HEATED FROM THE SIDE (Author - Jos Lage)	David Agadasa)	18224 – Development of an Optimal Control Strategy to Regulate Temperature in a Solar Receiver (Author - Nesrin Ozalp)	18929- FLOW BOILING HEAT TRANSFER IN MICROCHANNEL EFFECT OF INLET TEMPERATURE (Author - Prasanna Jayarama)
12:12 PM			17368 – Prediction Model and Verification of Explosive Ignition in Exploding Foil Initiator System (Author - Kyoungjin Kim)	17783- Meshless Method using a RBF Interpolation Blending Scheme for invlocid Compressible Flows (Author - Michael Hants)	18390 - MEASUREMENT OF THE 3D FLOW FIELD OUT OF HIGH ASPECT RATIO SLOTS (Author - David Nobes)	18707 Novel thermal emitter for photovoltaic applications (Author - Alak Chanekar)	TDA	17702 — A study of solid concentration fluctuation in a liquid fluidized bed using electrical impedance tomography (Author - Maedeh Marefatallah)	17521 – Pool boiling mechanism investigation in gradient metal foams (Author - ahiguo su)	19203 – A Theoretical Model and Optical Design by SCGM for a Pulse-tube Stirling Engine (Author - Yu- Ting Lin)	TDA	18061 – Cooling Enhancement of Drop Impact on Flowing Liquid Film (Author - RI U)	18224- Development of an Optimal Control Strategy to Regulate Temperature in a Salar Receiver (Author - Nesrin Ozalp)	18929- FLOW BOILING HEAT TRANSFER IN MICROCHANNES: EFFECT OF INLET TEMPERATURE (Author - Prasanna Jayarama)
12:30pm - 12:45pm	m (break to walk to lunch in Rio)	TFEC Plenary Luncheon - Pat Mulroy, S. Nevada												
2:15pm- 2:15pm 2:15pm- 2:15pm	n													
3:15pm - 4:00pm 4:00pm - 4:15pm	n Aefreshmeet Break	IWHT Keynote Lectures 3 IWHT Keynote Lectures 4 TEC Talk Session												
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	n Refreshment Break Session Number Session Chair	IWHT Keynote Lectures 4	I Educado Otivo	2 TBA	3. Perita II Costitulare	4 Moussa Minibel	5 Sunga P Works, Young Zhang, Jan 2000	G. Varouler Chatenesky	7 XII Dann, Hal Ha, Alex Zettoer	E Alon Batter	10 784	11 TIA	12 TIA	13
	n Refreshment Break Session Number	IWHT Keynote Lectures 4	I Educido Sino Mono Fernito. Neno Fernito. Nesa Transfer and Fluid Flow In Biorystems Simmedical applications of a	ZA Cs-Out Computational Methods/Tools in Thermal-Fluid Systems Computational Method Algorithms I	Co-Chair Fundamental Fluid Flow and Heat Transfer - Energy Applications	4 Manual Mindrel G-CASH Foundamentals in Field Flow, Heat, Mass and Momentum Trainfer III	5 Grow Though them Though an Zhu Cac Old Thou and Heat Throater in Materials Processing Science and Manufacturing	6 travite Custonity Cs-One Energy and Sostainability I	7 Two phase Four 1 these change material, moting, moting, moting, moting, moting of the change material, moting, moting for feeding for feeding.	II Am beliner Ge-One Two phase Flow 9: Computational methods in two phase flow	10 TIA ScOor Energy conservation and storage techniques			13 Tak ScOver St. Multiphase heal/mass transfer
	n Refreshment Break Session Number Session Chair Session Ca-Chair	IWHT Keynote Lectures 4	Alain Kassab Heat Transfer and Fluid Flow in	Co-Chair Computational Methods/Tools in Thermal-Fluid Systems -	Co-Chair Fundamental Fluid Flow and Heat Transfer - Energy Applications 12920 - Cost reduction and Performance improvement of Low Melting Proint Months Salts for High Temperature Heat Transfer and Storage Author- Valleng	Co-Chair Fundamentals in Fluid Flow, Heat,	Co-Care Flow and Heat Transfer in Materials Processing Science and Manufacturing 12422 - Measuring the Hyperthermia Response of Electroppun Nanofibers (Author - Yong Gas)	Co-Otalir	Co-Chair Two phase Flow 11- Phase change	Co-Chair Two phase Flow 9- Computational	Co-Chair Energy conservation and storage	TBA Co-Chair Heat/mass transfer in compact heat	TBA Co-Chair Heat/mass transfer in renewable and	Co-Chair
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Wed	10:15 AM		29695 - INVESTIGATION ON LAMINAR FLOW AND HEAT TRANSFER CHARACTERISTICS OF MICROALGAS SLURBES WITH RHEDURICAL PROPERTIES (Author - Qian Fe)	17424 - Microchannel Cooling of Microprocessor with Non-Uniform heating using Porous Media Thermal Modelling (Author - Akshay Iyer)		18449 - Turbulent flow in an axisymmetric channel with a sinuscidal contraction and a layer of porous material (Author - Marcelo I.S. de Lemos)	18386 - Design and fabrication of the pleaselectric actuated air forced convection thermal management and application to high power LED cooling (Author - Chiang-Ho Cheng)	17672 - Thermodynamic Modeling of a Free Piston Vulleumier Heat Pump (Author - Hanfel Chen)	17900 – Single phase convective heat transfer in a nod bundle containing partial blockage (Author - Ngoc Hung Nguyen)	18009 - ANALYSIS OF RADATIVE HEAT TRANSFER ON MEASURING THERMAL CONDUCTIVITY OF SEM TRANSPARENT MATERIALS USING TRANSENT PLANS SCURCE METHOD (Author - Hu Zhang)	18462 - Thermal Processes Operational Optimization Through Avoidable and Unavoidable Seegy Destruction Evaluation, A Case Study. (Author - Renato Sello)	18648 – Effect of hydrodynamic boundary layer structure on the performance of a swift flow microchannel heat sick for high heat flux applications (Author - Benjamin Herrmann- Prisonitz)	18056— Engineering Surfaces for Enhanced Nucleation and Droplet Removal During Dropwise Condensation (Author - Sameera Khan)	17984 - Heat transfer coefficient and pressure drop characteristics of R410A condensation during speand flow in vertical smooth and micro-fin tubes (Author - Li Jia)
Wed	10:33 AM		18011 — Effects of blockages and inflow pulsation on flow behavior of s-shaped arterie (Author - Somnath Roy)	TEA	17931 - Effects of Slip Velocity at the Interface on Heat Transfer Characteristics of Solid Spheres in Mewtonian Fluids under CWT and UHF Conditions (Author - Nanda Kishone)	18450 - Turbulent flow in a channel with porcus baffies simulated with linear and non-linear models (Author - Marcello J.S. de Lemos)	Josefa (baceta-Jaffa)	18473 – Performance evaluation of nano-UPG in refrigeration system (Author - Taiwo Baharinde)	17801 - Optimization of a Rectangular Fin inside a Lid-Onliven Square Cavity filled with AI2O3-water Nanofluid (Author - Prodip K. Dan)	17617 – Numerical simulation of heat exchange between solid particles and fluid flow in ponous media (Author - ping wang)	18703 - Simulation study on the molten salt bubble column for solar thermal storage (Author- wenhao pu)	18773 – A novel plastic heat exchangers applicable for dehumidification (Author - Mohammed Amer)	17433— THE THERMAL CONDUCTIVITY OF POLYMERS DEPEND ON COMBINED EFFECTS OF HIDROGEN BOND AND STRETCHING EFFECT (Author - Quanwen Liao)	17736 - NUMERICAL INVESTIGATIONS OF SUBCOOLED FLOW BOILING IN A PERBLE RED (Author - Sharshan Ru)
Wed	11:15 AM		17938— OPTIMAL VENTILATION FOR AN ADEQUATE THERMAL ENVIRONMENT FOR GREENHOUSE AMMEANTH GERMINATION (Author- Juni Sertago-Arelland)	TBA	18387 - Effect of aspect ratio on pressure loss and characteristics of low Raynolds number flow through narrow slots (Author - David Nobes)	17563— DIMPUMG OF CONTINUOUS PLAIN FINS IN TUBE-AND-PLATE HEAT EXCHANGERS AS EFFECTIVE WAY OF HEAT TRANSFER ENHANCEMENT (Author - Mikhail Gotovakii)	17609 - Modeling on the characteristics of a direct current argon micro discharge with the consideration of thermionic emission on cathode surface at atmospheric pressure (Author - Wen Zhou)	18302 - Performance Model of a Waste Heat Driven Turbo-Compression Chiller (Author - Todd Bandhauer)	18222 – Effects of the Configuration of Vane Distributor on the Separation Efficiency of FWKD (Author - Youn-Jea Kim)	18369— A novel spacer grids with rectangular win longitudinal vortex generators in a SvS rod bundle (Author - Junmel Wu)	18369 - Temperature control schemes for buildings with a PCM-composite envelope (Author - Laurent Pilon)		18427 - A Preliminary Framework for Modelling Polycrystalline Metal Processing Using Ultrafast Pulsed Laser (Aathor - Xu Mao)	17893 - NUMERICAL SIMULATION OF NUCLEATE BOILING IN SHALLOW LIQUID BY VOSET (Author - le lei)
Wed	10:45am - 11:00am	Coffee Break												
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Wed	[Session Number	27	28	29	30	31	32	33	34	35	36	37	38
Wed	[Session Chair	Eduardo Divo	Durrell Pegger	James Y. Hardey	TEA	TBA	Lorenzo Cremaschi	XII Duan, Liang Gong, Alex Rattner	TRA	TEA	TRA	TBA	TRA
Wed		Session Co-Chair	Alain Kassab	Co-Chair	Roy Hogan	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair
Wed	11:00am - 12:30pm	Technical Sessions	Heat Transfer and Fluid Flow in Biosystems-Industrial applications II	Computational Methods/Tools in Thermal-Fluid Systems -Applications in Heat Transfer I	Fundamental Fluid Flow and Heat Transfer - Heat Transfer in Nano- fluids I	Industrial and Commercial Processes Air-cooled Systems	Electric, Magnetic, Flow and Thermal Phenomena in Micro and Nano-Scale Systems 19680 - Improvement of Thermoelectric	Energy and Sustainability III	Two phase flow 2 - Two phase flows and convection I	CFD and numerical heat/mass transfer	Energy conservation and storage techniques	Heat/mass transfer in compact heat exchangers	Micro/Nano Heat/Mass Transfer	Multiphase heat/mass transfer
Wed	11:00 AM		18927— THERMAL MIXING OF LIQUID METAL CODIANT IN A T-JUNCTION (Author - Nikolay Pribaturin)	17752— FEM simulation of thermo-diffusion effects on MHD flow of nanoffusio over an exponentially stretching sheet with application to extrusion (Author - Rangoll Goyst)	18386 - Investigation of bubbles passing through a mini-stot using particle shadow velocimetry (Author - David Nobes)	17332— Heat Transfer and Pressure Drop Characteristics of Air Cooled Finned Tube Heat Exchanger (Author - In-Cheol Chu)	19880 - Improvement of Inermolectric Properties through Reduction of Thermal Conductivity by Nanoparticle Addition and Stoichiometric Change to Mg2S (Author - William Yorgason)	18345 — Simulation of a NGCC Power Plant at Elevated Temperatures (Author - Todd Bandhauer)	17688- Rivulet flow over corrugated sheets: effects of solvent properties and corrugation angles (Author - Rajesh Singh)	18365 – A NUMERICAL STUDY OF RLOW AND HEAT TRANSFER IN WEDGED CORRUGATED PLATE CHANNELS (Author - Pey-Shey Wu)	18394 - Economic analysis of vanadium redox-flow battery for energy storage in commercial applications (Author - Ming-Ila LI)	1845 – Study of plume interaction in forced convection from a system of parallel tubes in a compact Heat Exchanger (Author - Anistan Roy)	17GIS SHALE GAS TRANSPORT IN NANOPORES COUPLED WITH RIAL GAS EFFECT AND SURFACE DIFFUSION (Author - Ying Yin)	18541 - Pool boiling heat transfer of R134a outside reestrant cavity tubes at higher heat flux (Author- Wentao Ji)
Wed	11:18 AM		17898— A Fundamental Equation for the Bubble Roint Formation Volume Factor of world Chude Oils (Author - PETER UBHCRO CHERHAN)	18058 Thermochemical Model of Intumescing Fire Protection Coating (Author - Marvin Larsen)	17788 - Self-Cleaning Properties on Superhydrophobic Surfaces via Condensation (Author - David Miller)	17435— HEAT TRANSFER AND PRESSURE DROP MECHANISMS IN WAYY FINS HAVING ONE, TWO, THREE AND FOUR ROWS OF ROUND TURES. (Author - Ruben Borrajo)	18360 - Enhancing the Heat Transfer Characteristics of Liquid Desiccents with Nanoparticles (Author - Quil Talal)	18478 — comparative analysis of energetic performance of a bossehold refrigerator using R134a and Riccos (Author - Talwo Babarinde)	18656 – Two-phase flow pressure drop in circular channel with abrupt contraction and expansion (Author - Clement Tang)	18206 — WIND FLOW PREDICTIONS AROUND BUILDINGS HAVING SEMI-OPEN SPACES IN LIRBAN CANYONS (Author - An-Shik Yang)	18280 - Solidification of PCM in Triplew Tube Thermal Energy Storage System using Fins and Nanoparticles Enhancement (Author - Emmanuel Noofor)	17606 - Performance of Plastic Heat Exchanger used for Evaporative Cooling (Author - Seong-Yeon Noo)	17610- HEAT CONDUCTION THROUGH TWO CONTACTED SIJCA NANOSPHERES (Author - Chuan- Yong Zhu)	18083 – Numerical Study on the Characteristics of Immincible Displacement in a Partial Ponous Channel using the Lattice Boltsmann Method (Author - Liang Gong)
Wed	11:36 AM		17626 Numerical and experimental study on the detection limit and detection range on the performance of lateral flow assays (Author - Liu 2hi)	17669— A Computational Study of the Effect of Magnetic Field on Heat Transfer in Ferrofluid Flow in a Circular Tube (Author - Partha Ghoshdasidar)		17323 Design of High Efficiency Aggregate Air Cooling System (Author - Malik Alamayreh)	18418 - Measurements of Heat Generation Rate in Nanoporous Pseudocapacitive Electrodes (Author- Laurent Plan)	17413— Uslizing Phase-Change Material to Thermally Regulate and Capture Heat from Building Integrated Photovoltaic Panels (Author - Sandra Roetcher)	17336 – Adiabatic Air-water Upflow in a Large Diameter Pipe: Experiments vs. CFD (Author - Kevin Farrell)	18219— PREDICTIONS OF LOAD CAPACITY IN THERMO-HYDRODYNAMIC LUBRICATION PROCESS FOR HERBINGBONE GROOVE BEARINGS (Author- An-Shik Yang)	18710 - Thermal Performance of Encapsulated Phase Change Material based Thermal Energy Storage for Solar Applications (Author - Sandip Gumar Saha)	19089 – Frosting behaviors on a superhydrophobic heat exchanger (Author - Hsuk Kim)	17986— Optimizing Stanium oxide nanofluid for dye-sensitized solar cells (Author - Kazuhiro Manseki)	18041 — Oropiet impact behavior on micro- structured surface from boiling temperature to Leidenfrost temperature (Author - Ho Seon Ahn)
Wed	11:50 AM		17653— Heat Dissipation Research on the Micro Water Channel of HL-2M in-vessel Colls (Author- Jaming Jiang)	18039 — Characterization of Soot Aggregates via Light Scattering Considering Particle Size Distribution (Author - Hakas Erturk)	17510 – Molecular Dynamics Study of Contact Angle Effect on Maximum Critical Heat Flux in Nano Patterned Pool Boiling (Author - Zhixiong Guo)	13571 - Experimental Evaluation of Jet Implingement Cooling for Application in Power Plants Condensers (Author - Abdulmohsen Alsalan)	17966 - Nanostructured surface significantly alters droplet dynamics and freezing behavior (Author - Rachel Bohm)	17576— OPTICAL PERFORMANCE ANALYSIS OF A POROLIS OPEN VOLUMETRIC AIR RECEIVER IN A SOLAR POWER TOWER (Author - Yu Qiu)	17770 – Liquid-Liquid flow patterns in glass microchannels with cross-shaped junctions (Author -Zhen CAO)	18091 — Numerical Simulation on Aero-heating of Blunt-nosed Body With Ponous Spike (Author - Zhenhuan LI)	Enhanced Heat Transfer in a Solar Thermal Energy	13686 – Numerical Studies on Tubular Heat Exchangers for Cooled Cooling Air System of Aero- engine (Author - Yu Guanglei)	18075— FLOW AND HEAT TRANSFER OF NANOFLLIDS IN WALLY MICROCHANN EL (Author - Pawan Singh)	17400 – Analysis of UCB-Kuhn Condensation Tests by MARS-KS Code (Author - Ju Yeop Park)
Wed	12:12 PM		17157— Effect of an Insect Screen on Free Convection from a Window (Author - David Naylor)	17355— 3-D Numerical and experimental simulation of spray cloud formation due to wave- body interactions (Author - Armin Bodaghkhani)	17562 - NUMERICAL MODELLING OF TWO-PHASE RECIPROCATING FLOW USING A VIRTUAL LOOP (Author - Olubunni Papaola)	17423 — Cooling of Data Centers with Variation in Load and Environmental Conditions (Author- Yogesh Jaluria)	TBA	17411— Levellaed cost of electricity evaluation of billboard receiver designs through a thermal efficiency and fatigue life analysis (Author - Tim Corroy)	17655— Two phase flow regime maps in microgaps and pin-fin arrays for enhanced heat eschanger design (Author - Alex Rattner)	17983 — Numerical investigation of effect of helix on high-speed steam condensation in square/Groular channels (Author - Min Zeng)	17685 - The impact of Iwan as an exterior shading device on thermal performance of building (Author-Rouhallah Moosavi)	TRA	17922— Effects of Shear-Thinning type Nanofluids and their Upward Motion on Suoyancy Alded Mixed Convection Heat Transfer of Elliptical Cylindens at Re = 40 (Author - Nanda Kishone)	17533 — A study on icing characteristics of supercooled liquid droplet using SPR imaging technology. (Author - Chan Ho Jeong)
Wed	12:30pm - 1:30pm	Lunch												
Wed	[Session Number	39	40	41	42	43	44	45	46	#REF!	#REF!	#REF!	14
Wed	l i	Session Chair	Alexander Brown	Lorenzo Cremaschi	TBA	Aneesha Gogineni	TRA	TBA	TRA	TBA	TRA	TRA	Ahmad Fakheri	TBA
Wed	[Session Co-Chair	Flint Pierce	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair	Co-Chair
Wed	1:30pm - 3:00pm	Technical Sessions	Combustion, Fire and Fuels Experimental Techniques	Computational Methods/Tools in Thermal-fluid Systems I	Fundamental Fluid Flow and Heat Transfer - Turbulent Flows	Industrial and Commercial Processes Computational Modeling of Industrial Process I	Micro and Nano-Scale Systems 1- Thermal transport phenomena in nano-scale solid materials	Energy and Sustainability IV	Two phase flow 3 - Two phase flows and convection II	CFD and numerical heat/mass transfer	Heat/mass transfer in porous media	Micro/Nano Heat/Mass Transfer	Other related areas	Micro and Nano-Scale Systems 3- Flow Heat Exchange in Micro and Nanosystems
Wed	1:30 PM		17745 - HHO OF ERATED HYDROGEN ASSISTED COMBINATION TO REDUCE FUEL CONSISTINFTION AND EMISSION DURING HIOT WEATHER CONDITION - A CASE STUDY USING 1896 CC EAGING FROM TOYOTA 1802-FE VVT-4 (Author-Aldo Villarba)	17793 – Development of a transient simulation model for a shell-and-tube heat exchanger (Author- Matthias Hoefler)	18840 – Spectral Analysis of Unsteady Turbulent Row and Thermal Mikings in T-Junctions in Coolant Loop of Pressurised Water Reactors (Author - Debashis Bassu)	18556- Air Cooling Concepts for Li-ion Battery Pack in Cell Level (Author - Kuo-Huey Chen)	18066 – Functionalization and densification of inter-bundle interfaces for improvement in electrical and thermal transport of carbon manosube fibers (Author - Lin Qiu)	17412 - Passive directional daytime radiative cooling system (Author - Bikram Shatia)	17722—Three dimensional numerical simulation of a bubble rising in viscous liquid using OpenFQAM (Author - Ankit Ventus)	17120 – A Numerical investigation of Heat and Mass Transfer Phenomena in a Tapered Channel with Reciprocating Flow (Author - Mottl Raizner)	17906 - MHD Partial Slip flow and heat transfer of Nanofhids with Convective Boundary Condition (Author - Yohannes Kefelu)	17524 - CFD Study of Microfluidic Ducillator Characteristics for Flow-Separation Control (Author -Tawfig Chekiff)	17603 – Life cycle assessment of a grid-connected wind power system based on the configuration optimization (Author - Jin Xu)	17369— Phase Change Behavior of Carbon Based Nanocemposites in Horizontal Shelb Tube Latent Heat Thermal Energy Storage Systems (Author- Harish Sixusekaran)
Wed	1:48 PM		17997— Effect of Particle Size on the Bussout and Emissions of Particulate Matter from Combustion of Pulverized Biomass in a Crop Tube Furnace (Author - Mário Costa)	18416- THE STUDY ON THE EFFECT OF OFFSET FLOW CONTROL IN WAYN FIN HEAT EXCHANGER (Author - Gwang Hoon Shee)	18830— Turbulence Induced Thermal Miking Effects and Thermal Fatigue analysis in T-function Configurations in Presurized Water Reactors (PWR) (Author - Debashis Basu)	17815 - Electrohydrodynamic (EMD) heat transfer enhancement in low primary airflow velocities (Author - Erik Bandy)	17570 – Thermal Conductivity of Individual Biocon Cartride Nanowires (Author - Qian Zhang)		18254— Experimental study on void fraction of ECCS two-phase flow (Author - Guojun Yu)	17643 - Numerical and Esperimental Study on Heat Transfer Characteristic and Thermal Load rea refrigerating gaslet of a Frost-free Refrigerator (Author - Q Chee)	17911 Oscillatory flow regenerative heat eachangers for application to energy storage systems (Author - Tenence Simon)	18180 - EXPERIMENTAL STUDIES OF HEAT TRANSFER ANALYSIS OF MICROCHANNEL HEAT SINCT THROUGH DEFERENT MANFOLD ARRANGEMENTS (Author - Anuring Cablys)	18363 – An experimental investigation of spray characteristic using FVV and multi-scale data process method (Author - Longbin Yang)	17662— Micro-channel cold plate dimensional precision effects on performance (Author - liker Tarl)
Wed	2:06 PM		17736 - Application of Computed Tomography - Tunable Diode Laser Absorption Spectroscopy to Combustion Analysis (Author - Yoshihiro Deguchi)	18074 - Numerical Investigation of Forced Convection Fluid Flow of BL00s/TIO2 Nanonetrigerant in a Pipe (Author - Kamil Anslan)	17672 CALCULATIONS OF TURBULENT FLOW THROUGH A STAGGERED TUBE BANK (Author- Basers Branklay)	17403 — A Numerical Model of a Two-Pass, Cross- Flow Conformal Heat Exchanger for Aenospace Applications (Author - Nicholas Truster)	17721— Thermal Transport in Silicon Nanowires at High Temperatures (Author - Jaeho Lee)	12700 — Volume Element Model of a Parabolic Trough Solar Receiver (Author - Sam Yang)	18573- LDV AS AN OPTICAL TECHNIQUE FOR MEASUREMENT OF PEUS/SLUG FREQUENCY IN GAS-LIQUID TWO-PHASE R.OW (Author - JIGNESH THAKER)	18204 - Numerical Simulation of the Fluid-Solid Mixture Flow Based on the MPS method (Author- Kallun Guo)	18112 - Experimental investigation of biomimetic self-pumping transpiration cooling (Author - Gan Huang)	17888— Joule Heating and Lauer Flash Tip- ieshanced Raman Spectroscopy Method for Characterising Specific Heat of a Single Nanoparticle (Author - Xing Zhang)	18817— THE ROAD TRANSPORTATION EFFECTS ON CLIMATE CHANGE FOR ANKARA PROVINCE OF TURKEY (Author - ALI CAN)	18110 - Nanowines for Enhanced Spray Cooling Heat Transfer (Author - Sannan Chen)
Wed	2:24 PM		18106 - Turbulent inhomogeneous Autoignition of Polydispersed n-Heptane Droglets: An Experimental Study (Author - Ajay Gupta)	18116—Thermal-Wydraulic Performance of Aluminum Foam Heat Exchangers with Varying Cellular Lattice Structures (Author - Edward Kraft)	1817— Drag reduction in turbulent channel flow with two-diered superhydrophobic walls (Author- Julie Cnockett)	12786 - Simulation of chmic sterilization mango pulp (Author - Mario Caldedn)	17276— NUMERICAL STUDY OF A MIXED CONVECTION OF PANDFULID IN A CAVITY FILLED WITH A POROUS MEDIUM FOR DEFERENT LOCATIONS OF THE HEAT SOURCES (Author - All Alzensky)	17756— Transient heat transfer analysis in a fluidized bed of metal oxide particles undergoing solar thermochemical reduction (Author - Wejciech Lipinski)	18105 - A Study on counter - current imbiblision phenomena for two phase flow process in a Heterogeneous porous media (Author - HARDIK PATEL)	17550- INTERACTIONS OF COMBUSTOR WALL AND FILM COCUING ON ENDWALL FOR A FIRST- STAGE VANE (Author - Zheeping Feng)	18012 Rapid Generation Mechanism of Superheated Steam using a Wister Containing Porous Material (Author - Shoji Mori)	18047 - Fast Quenching onto CuO porous micro- structured surface (Author - Jun-young Kang)	IBBAD - CHARACTERIZATION OF THE THERMAL RESPONSE OF ENDRGETIC MATERIAL IN EARTH COVERED STORAGE DIPOSED TO REAL AND ABBITMARY WIGHTH CONDITIONS (Author - Hamid Hadim)	17808— Electrowetting-based accelerated cooling during quenching (Author - Valbhav Rahadur)
Wed	2:42 PM		18111 - High Efficiency Combustion System for Scirling Engine (Author - Aleksandr Koslov)	18548 - ENHANCEMENT OF HEAT OUTPUT OF PARKE PADANTORS USING NUMERICAL TECHNIQUES (Author - Tamer Calisir)	17763 – Large eddy simulation of tip-leakage flow in an axial fan (Author - Haecheon Choil)	17389 - Increasing Fast Retill of Compressed Natural Gas by Active Heat Removal (Author - RLL)	17627 — Optimizing parameters of SI nanoning arrays for optical absorption enhancement (Author - Dongli Lu)	and power systems in building applications (Author	17406 - Flow structures and the dynamics in the wake of a bubble rising close to a vertical wall (Author - Hyungmin Park)	17834 - A NUMERICAL STUDY ON THE EFFECTS OF NUMBER OF JETS ON DWIFE COOLING OF A GAS TURBINE BLADE LEADING EDGE (Author - 2henping Feng)	17740 - Influence of Porosity on Spherical Hollow Aluminum Element Cell Attenuation Characteristics (Author - Haochum Zhang)	17638 – Study on Methane Adsorption in Graphite Sit-pores by Molecular Dynamics (Author - Lei Chec)	18272 - Fin Pitch Effect on the Frosting Cycle in a Fin-and-Tube Heat Exchanger Operating at Low Temperatures (Author - Elle keryakos)	TRA
Wed	3:30pm	CLOSING CEREMONY												