



ASTFE

American Society of Thermal and Fluids Engineers

2nd Thermal and Fluids Engineering Conference

4th International Workshop on Heat Transfer

April 2–5, 2017, Las Vegas, NV, USA

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ASTFE

American Society of Thermal and Fluids Engineers

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3 SUNDAY, APRIL 2, 2017

3 MONDAY, APRIL 3, 2017

3	8:00 AM - 9:00 AM	TFEC Plenary Lecture
3	9:10 AM - 9:55 AM	IWHT Keynote Lecture
3	10:00 AM - 10:45 AM	IWHT Keynote Lecture
3	9:15 AM - 10:45 AM	TFEC Technical Sessions
4	11:00 AM - 12:30 PM	TFEC Technical Sessions
6	11:00 AM - 12:30 PM	IWHT Technical Sessions
7	1:30 PM - 2:15 PM	TFEC Keynote Lecture
7	1:30 PM - 2:15 PM	IWHT Keynote Lecture
7	2:30 PM - 4:00 PM	TFEC Technical Sessions
8	2:30 PM - 4:00 PM	IWHT Technical Sessions
10	4:15 PM - 5:45 PM	TFEC Technical Sessions
11	4:15 PM - 5:45 PM	IWHT Technical Sessions

12 TUESDAY, APRIL 4, 2017

12	8:00 AM - 9:00 AM	IWHT Plenary Lecture
12	9:15 AM - 10:45 AM	TFEC Technical Sessions
13	9:15 AM - 10:45 AM	IWHT Technical Sessions
15	11:00 AM - 12:30 PM	TFEC Technical Sessions
16	11:00 AM - 12:30 PM	IWHT Technical Sessions
17	12:45 AM - 2:15 PM	TFEC Plenary Luncheon
17	2:25 PM - 3:10 PM	IWHT Keynote Lecture
17	3:15 PM - 4:00 PM	IWHT Keynote Lecture
17	2:30 PM - 4:00 PM	TEC Talk Session
18	4:15 PM - 5:45 PM	TFEC Technical Sessions
19	4:15 PM - 5:45 PM	IWHT Technical Sessions

20 WEDNESDAY, APRIL 5, 2017

20	8:00 AM - 9:00 AM	IWHT Plenary Lecture
20	9:15 AM - 10:45 AM	TFEC Technical Sessions
22	9:15 AM - 10:45 AM	IWHT Technical Sessions
23	11:00 AM - 12:30 PM	TFEC Technical Sessions
24	11:00 AM - 12:30 PM	IWHT Technical Sessions
24	12:30 PM	CLOSING CEREMONY

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
SUNDAY, APRIL 2, 2017				
9:00 AM - 4:00 PM		Measurement Uncertainty Workshop	Tropical B	
1:00 PM		ASTFE Board of Directors meeting [CLOSED]	Tropical A	
3:00 PM		ASTFE Board of Directors meeting [OPEN]	Tropical A	
6:00 PM		Welcome Reception	Tropical C,D,G,H	
MONDAY, APRIL 3, 2017				
8:00 AM - 9:00 AM	TFEC	TFEC Plenary Lecture	Palma Ballroom	Dr. H. C. Svante Littmarck-Multiphysics Simulations are More Powerful, and Much Less Complicated, than Ever Before Chair: Darrell Pepper
9:10 AM - 9:55 AM	IWHT	IWHT Keynote Lecture	Palma Ballroom	Hyung Hee Cho - Thermal Design of Cooling Systems in Advanced Gas Turbine Blades Chair: Yi-Tung Chen
10:00 AM - 10:45 AM	IWHT	IWHT Keynote Lecture	Palma ballroom	Jiang Peixue - Convection Heat Transfer of Fluids at Super-Critical Pressures in Tubes or Porous Structures Chair: Yasuyuki Takata
9:00 AM - 9:15 AM		(break to walk to sessions)		
9:15 AM	M.1	TFEC Combustion, Fire and Fuels - Analytical Methods I Chair: Francine Battaglia Co-Chair: Somrat Kerdsuwan	Coco A	18010 – IN-DEPTH HEAT TRANSFER ANALYSIS OF RDF-5 FROM DUMP SITE GASIFICATION IN A DOWNDRAFT GASIFIER (Author - Somrat Kerdsuwan)
9:33 AM				17514 – Methodology to determine the feasibility of replacement fuel in a boiler (Author - Gabriel Pando)
9:51 AM				17901 – MODELING COMBUSTION SYSTEMS USING A CHEMICAL REACTOR NETWORK METHODOLOGY (Author - Francine Battaglia)
10:09 AM				17512 – Non-Premixed swirl flame modelling using the open source CFD package OpenFOAM (Author - Weeratunge Malalasekera)
10:27 AM				17963 – SPRAY FLAMES OF THREE-COMPONENT FUEL BLENDS IN A POROUS MEDIA BURNER AT LEAN CONDITIONS (Author - Ramkumar Parthasarathy)
9:15 AM	M.2		TFEC Computational Methods/Tools in Thermal-fluid Systems I Chair: Sam Subia Co-Chair: Akshai Runcha	Coco B
9:33 AM				A Tribute to an Exceptional Life: D. Brian Spalding (Author Akshai Runchal)
9:51 AM				18375 – Evaporative Cooling in a clay pot Refrigerator: CFD simulation and experimental validation (Author - Sidharth Chakrabarti)
10:09 AM				19056 – Numerical analysis on the effect of an oil level on heat transfer characteristics inside a transaxle composed of transmission gears, differential gears, and a brake system (Author - Nahmkeon Hur)
10:27 AM				
9:15 AM	M.3	TFEC Fundamental Fluid Flow and Heat Transfer - Heat Transfer Applications I Chair: S.A. Sherif Co-Chair: Patrick Oosthuizen		Lambda A
9:33 AM				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 - Patrick H Oosthuizen)
9:51 AM				18310 – Exploring the optimal performance of an irreversible double resonance energy selective electron heat engine (Author - Lingen Chen)
10:09 AM				18188 – Reversible pump turbine flow stability aspects within Pumped Storage Hydropower Plants: A review (Author - Wen-Tao Su)
10:27 AM				17365 – Heat transfer correlations for hydrodynamically developed laminar flow in an annulus (Author - Sepehr Foroushani, presented by David Naylor)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
9:15 AM	M.4	TFEC Industrial and Commercial Processes - Passive Cooling Systems Chair: Mohammad Reza Shaeri Co-Chair: He Tao	Lambada B	17767 – Thermosyphon-based Flue-Gas Condensation to Improve the Performance of Dry-Cooled Power Plants (Author - He Tao)
9:33 AM				18457 – Modeling Polymer Sheet Breakup for Devolatilization Processes in Steam Contactors (Author - Bradley Shindle)
9:51 AM				18332 – A Gas-dynamic model for the role of mixing in ejector performance (Author - David Buttsworth)
10:09 AM				18320 – Thermodynamic analysis of multi-stage flash distillation application in wastewater treatment (Author - Jiao Wang)
10:27 AM				18135 – Modeling of Membrane Fouling for Rotating Filtration Systems (Author - Khaled Sallam)
9:15 AM	M.5	TFEC Micro and Nano-Scale Systems 1-Thermal transport phenomena in nano-scale solid materials Chair: Saeid Vafaei Co-Chair: Yingying Wang	Lambada C	17515 – Hydrodynamic Cavitation behind a Pillar (Author - Arash Nayebzadeh)
9:33 AM				17311 – Transient local resolution of flow boiling in a micro channel with a pin fin (Author - Yingying Wang)
9:51 AM				17117 – EXPERIMENTAL INVESTIGATION OF FLUID CONVECTION NEAR AN EVAPORATING WATER MENISCUS IN A HORIZONTAL CAPILLARY (Author - Tapan Kumar Pradhan)
10:09 AM				17100 – Heat transfer analysis of blood-gold nanofluid in a porous pipe with expanding or contracting wall (Author - Suripeddi Srinivas)
10:27 AM				18929 – FLOW BOILING HEAT TRANSFER IN MICROCHANNEL: EFFECT OF INLET TEMPERATURE (Author - Prasanna Jayaramu)
9:15 AM	M.6	TFEC Energy and Sustainability I Chair: Narcrisha Norman Co-Chair: Joseph BASSILA	Conga A	18363 – Energy Study And Heat Recovery Potential Of a Low Temperature Refrigeration System For Biogas Upgrading (Author - Joseph BASSILA)
9:33 AM				18349 – Heat Mass Transfer Analysis on the Effects of Fountains to the Thermal Comfort of A Semi-open Square (Author - Yew Khoy Chuah)
9:51 AM				18128 – THERMAL MODELING OF A DATA CENTER (Author - Jose Teixeira)
10:09 AM				18368 – Effective thermal expansion coefficient of three-component core-shellmatrix composites (Author - Laurent Pilon)
10:27 AM				18059 – Energy Use and Chilled Water Storage System Studies for an Educational Facility through High-resolution Modeling (Author - Zhuo Li, presented by Hessam Taherian)
9:15 AM	M.7	TFEC Flow boiling and evaporation I Chair: Hu Hui Co-Chair: Jorge Alvarado	Conga B	18409 – DROPLETS MOVEMENT AND COALESCENCE IN HYDROPHOBIC MICROCHANNEL (Author - Yongping Chen)
9:33 AM				18081 – Evaporation heat transfer coefficient of Low GWP refrigerants (Author - Keumnam Cho)
9:51 AM				18006 – IMPROVED CORRELATION FOR DISPERSED FLOW FILM BOILING HEAT TRANSFER IN VERTICAL TUBES (Author - Mirza Shah)
10:09 AM				17985 – The effect of heating direction on flow boiling heat transfer of R134a in micro-channels (Author - Li Jia)
10:27 AM				
10:45 AM		Refreshment Break	Hallway	
11:00 AM	M.8	TFEC Combustion, Fire and Fuels- Analytical Methods II Chair: Francine Battaglia Co-Chair: Flint Pierce	Tropical A	17476 – Multi-Dimensional Modeling of a 1 kW Free Piston Linear Alternator (Author - Sotirios Mamalis will be presented by Jon Longtin)
11:18 AM				17668 – Multicomponent Evaporation Effects on Particulate Release in a Liquid Fuel Fire (Author - Flint Pierce)
11:36 AM				17709 – Contaminated Fuel Fires: Parametric Sensitivity of Resuspension and Boiling Particle Evolution (Author - Alexander Brown)
11:54 AM				19449 – A new equation for estimating the exergy of woody biomass (Author - Yanning Zhang)
12:12 PM				18580 – Synthesis of Aluminum Based Explosive with Applications in Anti-WMD: Aluminum Iodate Hexahydrate[Al(H ₂ O) ₆](IO ₃) ₃ (HIO ₃) ₂ (Author - Dylan Smith)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
11:00 AM	M.9	TFEC Low GWP refrigerants within the context of Kyoto Protocol Chair: Sethi Ankit Co-Chair: Lorenzo Cremaschi	Coco B	19674 – Simulated Case Studies of Flooded Evaporators with R1234ze (and others) vs. R134a (Author - John Thome)
11:18 AM				Introduction on LGWP refrigerants (Author: Sethi Ankit)
11:36 AM				19682 – Recent Developments in Low GWP Refrigerants for Refrigeration and Air Conditioning (Author - Joshua Hughes)
11:54 AM				
12:12 PM				
11:00 AM	M.10	TFEC Fundamental Fluid Flow and Heat Transfer - Heat Transfer Applications II Chair: Peiwen Li Co-Chair: Sebastian Ruck	Lambda A	17408 – Thermal Performance of Cooling Channels With Rib-Arrays Detached from One Wall (Author - Sebastian Ruck)
11:18 AM				18348 – Numerical and Experimental Investigation of Heat/Mass Transfer in a Linear Turbine Cascade (Author - Umesh Madanan)
11:36 AM				18311 – Maximum exergy output rate for an endoreversible closed Brayton cycle combined cooling, heating and power plant (Author - Lingen Chen)
11:54 AM				18308 – Ecological Optimization of an Irreversible Otto Cycle with Variable Specific Heats of Working Fluid (Author - Lingen Chen)
12:12 PM				18315 – Exergy-based ecological criterion and optimization of an irreversible absorption heat pump (Author - Lingen Chen)
11:00 AM	M.11	TFEC Industrial and Commercial Processes - Two-phase Cooling Industrial Processes Chair: Jorge Alvarado Co-Chair: Gregory Thiel	Lambda B	17711 – An effectiveness-NTU relationship for evaporators with non-negligible boiling point elevation increases (Author - Gregory Thiel)
11:18 AM				18147 – A Computational Study of Natural Convection Heat Transfer between two horizontal parallel plates in a Thermoforming Process (Author - Gustavo Urquiza)
11:36 AM				17769 – Experimental study on heat transfer performance of shell-and-tube condenser with gas-liquid separation based on short-tube effect (Author - Baomin Dai)
11:54 AM				18318 – Two phase flow visualization in evaporator tube bundles using experimental and numerical techniques (Author - Steven Eckels)
12:12 PM				18317 – The Design on the Distributor of a Falling Film Evaporator (Author - Yang-Cheng Shih)
11:00 AM	M.12	TFEC Micro and Nano-Scale Systems 2 - Flow Heat Exchange in Micro and Nanosystems Chair: Saeid Vafaei Co-Chair: Harish Sivasankaran	Lambda C	17369 – Phase Change Behavior of Carbon Based Nanocomposites in Horizontal Shell-Tube Latent Heat Thermal Energy Storage Systems (Author - Harish Sivasankaran)
11:18 AM				17662 – Micro-channel cold plate dimensional precision effects on performance (Author - Ilker Tari)
11:36 AM				18110 – Nanowires for Enhanced Spray Cooling Heat Transfer (Author - Jiannan Chen)
11:54 AM				17808 – Electrowetting-based accelerated cooling during quenching (Author - Vaibhav Bahadur)
12:12 PM				
11:00 AM	M.13	TFEC EEnergy, Water, and Sustainability 1 - Thermal Energy Storage Chair: Daotong Chong Co-Chair: Hessam Taherian	Conga A	17409 – SEASONAL STORAGE OF HEAT IN SEMI-FLOODED CAVITIES (Author - Haikel Ben Hamed)
11:18 AM				18918 – Heat transfer problems for solid state hydrogen storage technology (Author - Moon-Sun Chung)
11:36 AM				18273 – POTENTIAL FIRE HAZARDS OF A GREEN SUBWAY STATION (Author - Nadia C.L. Chow)
11:54 AM				18007 – Modeling household appliances and maximizing energy efficiency in a solarpowered house (Author - Sandeep Chahal, presented by Hessam Taherian)
12:12 PM				18989 – Analysis of a Concentrated Solar Thermophotovoltaic System with Thermal Energy Storage (Author - Hamid Seyf)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
11:00 AM	M.14	TFEC Flow boiling and evaporation II Chair: Jorge Alvarado Co-Chair: Alex Rattner	Conga B	18988 – Theoretical study on critical heat flux with non-uniform axial power distribution (Author - Wenxing LIU)
11:18 AM				17994 – Experimental studies on the effect of inlet subcooling on flow boiling heat transfer in microchannel (Author - Prasanna Jayaramu)
11:36 AM				18461 – New type of evaporator for loop heat pipe (Author - Alexander Yakomaskin)
11:54 AM				18298 – Enhancement of boiling heat transfer by hydrophobic/hydrophilic mixed surface for LHP evaporator (Author - Yasuyuki Takata)
12:12 PM				18117 – Drag reduction in turbulent channel flow with two-tiered superhydrophobic walls (Author - Julie Crockett)
11:00 AM	M.15	IWHT Heat/mass transfer at high temperatures Chair: Hamid Hadim Co-Chair: Todd Bandhauer	Conga C	18515 – Investigation of Correlation for Forced Convective Heat Transfer to Supercritical Carbon Dioxide Flowing in a Vertical Tube (Author - Xuemei Lang)
11:18 AM				
11:36 AM				18500 – Novel low melting point binary nitrates for thermal energy storage applications (Author - Ying Li)
11:54 AM				18640 – CHARACTERIZATION OF THE THERMAL RESPONSE OF ENERGETIC MATERIAL IN EARTH COVERED STORAGE EXPOSED TO REAL AND ARBITRARY WEATHER CONDITIONS (Author - Hamid Hadim)
12:12 PM				18227 – Thermal transport in bismuth-antimony-telluride-selenide thin films (Author - Xianfan Xu)
11:00 AM	M.16	IWHT Heat/mass transfer in porous media Chair: Li Chen	Coco A	17991 – Pore-scale simulation of ice melting process in porous media (Author - Pu He)
11:18 AM				17855 – Thermodynamic Analysis of a Membrane-based Liquid Desiccant System with a Randomly Packed Hollow Fiber membrane module and Different Desiccant Solution (Author - Si-Tao Li)
11:36 AM				17743 – Nano Insulation Materials and the Utilization of Hollow Silica Nanospheres (Author - Bjørn Petter Jelle)
11:54 AM				17338 – Numerical model to determine radiative properties of representative open cell foam structure (Author - Vipul Patel)
12:12 PM				17616 – VARIABLE-ORDER ANOMALOUS HEAT TRANSPORT MATHEMATICAL MODELS IN DISORDERED AND HETEROGENEOUS POROUS MEDIA (Author - Abiola Obembe)
11:00 AM	M.17	IWHT Micro/Nano Heat/Mass Transfer Chair: Cu-Lu Zhao Co-Chair: Tao Xing	Tropical B	18037 – Study of thermal transport and thermal stress in thin metal film-glass substrate system (Author - Weigang Ma)
11:18 AM				17667 – Leidenfrost effect, simulation with molecular dynamics method (Author - Konstantinos Termentzidis)
11:36 AM				18687 – Heat Transfer Enhancement during Condensation of Hydrocarbons with Slippery Liquid-Infused Porous Surfaces for Improved Natural Gas Processing Efficiency (Author - Daniel J. Preston)
11:54 AM				17459 – EFFECTS OF FILM THICKNESS ON FEMTOSECOND LASER SPALLATION AND ABLATION OF SILVER FILM (Author - Yuwen Zhang)
12:12 PM				118864 – Induced-charge electrokinetic phenomena in tapered conducting nanochannels for a flexible control of ionic transport (Author - Cunlu Zhao)
11:00 AM	M.18	IWHT Radiative heat transfer Chair: Mathieu Francoeur	Tropical E	18270 – Measurement Method for Optical Constants of Semitransparent Solid Material under Cryogenic condition (Author - Yong Shuai)
11:18 AM				17818 – External luminescence efficiency enhancement in near-field thermophotovoltaics (Author - Mathieu Francoeur)
11:36 AM				17558 – Near-field thermal radiation interactions between a probe and a surface (Author - Mathieu Francoeur)
11:54 AM				17545 – Improving the efficiency of heating of concast bars in ring furnace for pipe production by mathematical modeling (Author - Alexander Titaev)
12:12 PM				

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
11:00 AM	M.19	IWHT Advanced energy systems Chair: Chi-Chuan Wang Co-Chair: Jianyong Chen	Tropical F	18002 – Effect of Locations of the Supply Vent on the Efficiency Index of a container datacenter (Author - Chi-Chuan Wang)
11:18 AM				17686 – Vibration analysis on energy saving for Datacenters using Optical Wireless Communication (OWC) (Author - Kai Zheng)
11:36 AM				17800 – Aerodynamic Design of a Locomotive Nose Fairing (Author - Chad Stucki)
11:54 AM				
12:12 PM				
12:30 PM - 1:30 PM		Lunch		Authors are on their own
1:00 PM - 2:30 PM	TFEC	Organizers Meeting	Conga C room	
1:30 PM - 2:15 PM	TFEC	TFEC Keynote Lecture	Palma Ballroom	Ashwani K. Gupta - Sustainable Clean Energy Production in a Carbon Constrained World Chair: Francine Battaglia
1:30 PM - 2:15 PM	TFEC	NSF Strategies	COCO B room	Dr. José Lage - Thermal Transport Processes, Division of Chemical, Bioengineering, Environmental and Transport Systems
1:30 PM - 2:15 PM	IWHT	IWHT Keynote Lecture	Coco A room	Xiaobing Luo - Heat and Fluid Flow in LED Packaging and Applications Chair: Yogesh Jaluria
2:15 PM - 2:30 PM		(break to walk to sessions)		
2:30 PM	M.20	TFEC Fluid Mechanics and Rheology of Nonlinear Materials and Complex Fluids Chair: Francine Battaglia Co-Chair: Hui Hu	Tropical A	18453 – An Experimental Study on Unsteady Heat Transfer Process over Ice Accreting Airfoil Surfaces Pertinent to Aircraft Icing Phenomena (Author - Hui Hu)
2:48 PM				18121 – A Study of Silicon Dioxide Colloidal Suspension Flow in Circular Channel with Sudden Area Expansion (Author - Clement Tang)
3:06 PM				17676 – Numerical Simulation of Free Convection Heat Transfer from a Vertical Plate to Non-Newtonian Nanofluids (Author - Partha Ghoshdastidar)
3:24 PM				18379 – A criterion for Darcy and non-Darcy flow in porous media (Author - Jinsui Wu)
3:42 PM				17471 – A DYNAMIC LARGE EDDY MODEL FOR SIMULATING TURBULENT REACTIVE FLOW (Author - David Carrington)
2:30 PM	M.21	TFEC Experimental Methods/Tools and Instrumentation I Chair: Yogesh Jaluria Co-Chair: Khaled Sallam	Coco B	17016 – ENHANCING HEAT TRANSFER RATES ACROSS DIFFERENT FLOW REGIMES USING PERFORATED-FINNEED HEAT SINKS (Author - Mohammad Reza Shaeri)
2:48 PM				17914 – On PIV Measurements of Diffusion Flames (Author - Khaled Sallam)
3:06 PM				17518 – Shock trains Characteristic of Supersonic air Ejector (Author - Weixiong Chen)
3:24 PM				17650 – Combining experimental and numerical tools to analyze the impact of the building envelope and the occupants' behaviour on thermal systems in building (Author - Wirich Freppel)
3:42 PM				18145 – Investigation of Heat Transfer Coefficient for Non-circular duct with twisted tape insert (Author - Rupesh Yadav)
2:30 PM	M.22	TFEC Fundamental Fluid Flow and Heat Transfer - Heat Transfer Applications III Chair: Mathieu Francoeur Co-Chair: Peiwen Li	Lambada A	18309 – Optimization for minimizing power-consumption of a real multistage heat pump system under a generalized heat transfer law via Hamilton-Jacobi-Bellman theory (Author - Lingen Chen)
2:48 PM				18114 – EXPERIMENTAL AND NUMERICAL INVESTIGATION OF PRESSURE DROP IN SILICON CARBIDE (SiC) FUEL ROD FOR PRESSURIZED WATER REACTOR (Author - Titan Paul)
3:06 PM				17978 – Analysis on the energy separation process in vortex tube with unsteady vortex characteristics (Author - Xiangji Guo)
3:24 PM				17821 – Total Entropy Production in Flow and Heat Transfer for Evaluation of Performance of Heat Transfer Devices (Author - Peiwen Li)
3:42 PM				17733 – Maximization of Entropy Flux as a design tool – Application to Heat Exchanger Networks Optimization (Author - Ahmad Fakheri)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
2:30 PM	M.23	TFEC Industrial and Commercial Processes - Special Topics I Chair: S.A. Sherif Co-Chair: Gurpreet Singh	Lambda B	17620 – Experimental investigation on heat transfer and pressure drop performance of flat tube with using water based Al ₂ O ₃ nanofluids (Author - Gurpreet Singh)
2:48 PM				17574 – The effect of the cold sink temperature on thermoelectric dehumidifiers (Author - Joonoh Kim)
3:06 PM				17820 – EXPERIMENTAL STUDY ON THE BLOWDOWN LOAD DURING THE STEAM GENERATOR STEAM LINE BREAK ACCIDENT IN THE EVOLUTIONARY PRESSURIZED WATER REACTOR (Author - K H Kang)
3:24 PM				18033 – COP IMPROVEMENT OF ELECTRIC VEHICLE BATTERY THERMAL MANAGEMENT SYSTEM WITH AN ADSORPTION HEAT PUMP (Author - Gamze Gediz Ilis)
3:42 PM				19006 – Transient thermal behavior surrounding a wellbore and its impact on production management (Author - Yu Jiang)
2:30 PM	M.24	TFEC Energy, Water, and Sustainability 3 - Wind and Tidal Power Chair: Ehsan Languri Co-Chair: Bhavesh Patel	Lambda C	17903 – RENEWABLE THERMAL ENERGY ASSISTED NOVEL TRIGENERATION SYSTEM FOR INDUSTRIAL COOLING APPLICATIONS (Author - Bhavesh Patel)
2:48 PM				18456 – An Experimental Study on the Wake Characteristics and Aeromechanic Performance of Novel Dual-Rotor Wind Turbines (Author - Hui Hu)
3:06 PM				17723 – Development Of An Advanced Wind Turbine Actuator Line Model (Author - Murphy O'Dea)
3:24 PM				18125 – Analysis of Distributed Generation with Renewable Energy Conversion in ASHRAE Climate Zone 3A (Author - Christy Green)
3:42 PM				18487 – ANALYSIS OF TURBULENT CONVECTIVE HEAT TRANSFER FROM RECTANGULAR BAFFLES BY TAGUCHI METHOD (Author - Eyüphan Manay)
2:30 PM	M.25	TFEC Flow boiling and evaporation III Chair: Jorge Alvarado Co-Chair: Alex Rattner	Conga A	18432 – GENERAL CORRELATION FOR HEAT TRANSFER DURING BOILING IN PLAIN MINI CHANNELS (Author - Mirza Shah)
2:48 PM				18370 – Performance Improvement of Evaporators with Zeotropic Refrigerant Mixture Using Metal Foams (Author - Kyung Chun Kim)
3:06 PM				18259 – Experimental investigation on natural circulation characteristics of passive heat removal system in Hualong pressurized reactor (Author - Ducheng Sun)
3:24 PM				17639 – Roughness Effect on Pool Boiling Heat Transfer of Water on Hydrophobic Surfaces (Author - Jinsub Kim)
3:42 PM				
2:30 PM	M.26	TFEC CFD and numerical heat/mass transfer Chair: Narcrisa Norman	Conga B	17482 – Numerical Analysis of Rectangular Channel Heat Sink Performance for Supercomputing Applications (Author - Xudong An)
2:48 PM				18143 – Effect of Variable viscosity, Thermal Conductivity and Hall currents on the flow over an Exponentially Stretching Sheet with Heat Generation/Absorption (Author - D. Srinivasacharya)
3:06 PM				18092 – Complex Model Building: Application to the Earth Radiation Budget Instrument (Author - Brian Vick)
3:24 PM				18333 – Numerical Simulation of Double Droplets Combustion Using a VOF Model. (Author - Yazhou Shao)
3:42 PM				18195 – Mixed convection flow of Casson fluid over a stretching sheet with convective boundary conditions and Hall effect. (Author - Bilal Ashraf)
2:30 PM	M.27	IWHT Heat/mass transfer enhancement techniques Chair: Pey-Shey Wu	Conga C	17584 – Experimental study on the composite fouling characteristics of calcium carbonate and nanometer magnesia (Author - Jingtao Wang)
2:48 PM				17547 – Topology optimization of heat and mass transfer for two fluids under steady state laminar regime: application on heat exchangers (Author - Rony Tawk)
3:06 PM				17689 – Jet Impingement-Cooled Module for Automotive Power Electronics using Water-Ethylene Glycol (Author - Michael Henry)
3:24 PM				17774 – LAMINAR FLOW AND HEAT TRANSFER OF TWO THERMAL EXPANSION FLUID IN PROTRUDED AND PIN-FINDED CHANNELS (Author - Yang Ke)
3:42 PM				17596 – The characteristics of heat transfer and flow resistance in a rectangular channel with vortex generators (Author - Zhimin Han)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
2:30 PM	M.28	IWHT Heat/mass transfer in porous media Chair: Hamid Hadim Co-Chair: Daniel Preston	Coco A	18154 – Stable, calm, and high-heat-flux heat removal using a porous-microchannel (Author - Tomio Okawa)
2:48 PM				17383 – A solar energy driven and hollow fiber membrane-based humidificationdehumidification desalination system: experiment and simulation (Author - Guopei Li)
3:06 PM				18130 – Internal convection heat transfer of CO2 at supercritical pressures in porous media (Author - Le Zhang)
3:24 PM				17929 – Effects of groove arrangements on the flow pattern and heat transfer in a heat exchanger tube with discrete grooves (Author - Nianben Zheng)
3:42 PM				
2:30 PM	M.29	IWHT Micro/Nano Heat/Mass Transfer Chair: Hyung-Hee Cho	Tropical B	17555 – THERMAL CONDUCTIVITY OF SINGLE AND DOUBLE SILICON NANORIBBONS (Author - Lin Yang)
2:48 PM				17661 – Effects of molecular structure on the thermal and mechanical properties of electrospun vinyl polymer nanofibers (Author - Yin Zhang)
3:06 PM				18131 – Numerical and Experimental Study on Heat Transfer of Supercritical CO2 in Micro Serpentine Tubes (Author - Yan Zheng)
3:24 PM				18991 – Reexamining the Theory of Alloy Thermal Conductivity (Author - Hamid Seyf)
3:42 PM				
2:30 PM	M.30	IWHT Radiative heat transfer Chair: Hong Qi	Tropical E	18032 – CHEBYSHEV COLLOCATION SPETRAL METHOD FOR RADIATIVE HEAT TRANSFER IN ONE-DIMENTIONAL CYLINDRICAL MEDIUM (Author - Rui-Rui Zhou)
2:48 PM				18359 – Simultaneous reconstruction of optical and thermal properties in heterogeneous absorbing media by using the light field imaging technique (Author - Hong Qi)
3:06 PM				18139 – Spectral absorption of near-infrared laser irradiation in water droplet (Author - Chuang Sun)
3:24 PM				18811 – The Heat Transfer Model of Coating Volatile Resistance and Radiation Characteristics Test Device (Author - Peng Xiao)
3:42 PM				
2:30 PM	M.31	IWHT CFD and numerical heat/mass transfer Chair: Francine Battaglia Co-Chair: Lu Chen	Tropical F	17583 – Numerical parametric study on the performance and optimal configurations of ionic wind generators with needle-to-ring electrode (Author - Jianfei Zhang, Presenter Shuang Wang)
2:48 PM				17525 – Three-dimensional simulation of bubble growth dynamics using OpenFOAM® (Author - Menaka Ray)
3:06 PM				17964 – Heat Transfer Analysis in a Higher Order Mode Waveguide for the Electron - Ion Collider at BNL (Author - Dhananjay Ravikumar)
3:24 PM				17487 – FLOW AND HEAT TRANSFER AROUND AND THROUGH AN ISOLATED HIGHRISE BUILDING IN NIGHT VENTILATION (Author - Yan Liu, presented by Shanshan Bu)
3:42 PM				17386 – Computational study of fluid flow and heat transfer in randomly packed bed with different tube walls (Author - Jian Yang)
4:00 PM - 4:15 PM		Refreshment Break	Hallway	
4:00 PM - 5:30 PM		Comsol, Inc. Workshop	Palma Ballroom	Multiphysics Simulation of Thermal and Fluid Systems David Kan - COMSOL Vice-President of Sales for South-Western Region of the US
5:30 PM - 6:30 PM	IWHT	Organizers meeting	Coco A	

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
4:15 PM	M.32	TFEC Heat Transfer and Fluid Flow in Biosystems-Industrial applications I Chair: Eduardo Divo Co-Chair: Alain Kassab	Tropical A	17397 – KrioBlast™: A Promising Cryogenic Platform for Kinetic Vitrification by Hyperfast Cooling (Author - Igor Katkov)
4:33 PM				19695 – INVESTIGATION ON LAMINAR FLOW AND HEAT TRANSFER CHARACTERISTICS OF MICROALGAE SLURRIES WITH RHEOLOGICAL PROPERTIES (Author - Qian Fu)
4:51 PM				17938 – OPTIMAL VENTILATION FOR AN ADEQUATE THERMAL ENVIRONMENT FOR GREENHOUSE AMARANTH GERMINATION (Author - Juan Serrano-Arellano)
5:09 PM				17626 – Numerical and experimental study on the detection limit and detection range on the performance of lateral flow assays (Author - Liu Zhi)
5:27 PM				17157 – Effect of an Insect Screen on Free Convection from a Window (Author - David Naylor)
4:15 PM	M.33	TFEC Experimental Methods/Tools and Instrumentation II Chair: Kevin Dowding, Co-Chair: Corcoles-Tendero	Coco B	17612 – Experimental characterization of tubular heat exchangers with different methodologies (Author - José A. Almendros-Ibáñez, Presenter Juan Igancio Corcoles-Tendero)
4:33 PM				18225 – Optimization of design and process parameters for maximized and stable solar receiver efficiency (Author - Nesrin Ozalp)
4:51 PM				18137 – An integrated thermal sensor based on MEMS for temperature and heat flux measurements of jet impingement cooling of CO2 at supercritical pressures (Author - Kai Chen)
5:09 PM				18068– Experimental Investigations of Combined Conductive and Radiative Heat Transfer in Silica Aerogel Composite at High Temperatures (Author - Hua Liu)
5:27 PM				
4:15 PM	M.34	TFEC Fundamentals in Fluid Flow, Heat, Mass and Momentum Transfer I Chair: Zhixiong Guo Co-Chair: Roy Hogan	Lambda A	17509 – CRITICAL CONDITION FOR THERMAL CONVECTION OF BINGHAM FLUIDS IN RECTANGULAR RAYLEIGH-BÉNARD CONFIGURATION (Author - Sahin Yigit)
4:33 PM				17652 – Hydrodynamic and thermal analyses in a boundary layer flow over a concave / convex plate (Author - Larissa Marques)
4:51 PM				17613 – Hydrophobic Steel Surfaces with Micron-Scale And Sub-Micron Structures From Laser Fabrication (Author - Xili Duan)
5:09 PM				
5:27 PM				18490 – Thermophysical property measurements of water based ferrofluids. (Author: Eyuphan Manay. Presenter: Emre Mandev)
4:15 PM	M.35	TFEC Industrial and Commercial Processes - Special Topics II Chair: Yaroslav Chudnovsky Co-Chair: Huaizhi Han	Lambda B	18337 – NUMERICAL STUDY ON THE CRITICAL PRESSURE POINT OF ICE FORMATION IN THE PROCESSING OF METHANE HYDRATE DISSOCIATION BY DEPRESSURIZATION METHOD (Author - Huaizhi Han)
4:33 PM				18060 – THERMAL ANALYSIS OF THE REMOVAL OF PARAFFIN BLOCKAGES IN OIL PIPELINES VIA THE NITROGEN GENERATING SYSTEM (SGN) (Author - Helcio Orlande)
4:51 PM				17776 – Laser-Assisted Manufacturing of Bi2Te3-based Thermoelectric Module Combined with Ink Dispensing Printing Technology (Author - Tao Zhang, presented by Jon Longtin)
5:09 PM				17677 – Thermal and Lagrangian transport analysis of chaotic advection in 2D anisotropic porous media (Author - Stephen Varghese)
5:27 PM				19919 – On the combined use of dynamic simulations and plant data to account for fouling in heat exchanger design. (Author - Francesco Coletti)
4:15 PM	M.36	TFEC Micro and Nano-Scale Systems 3- Thermal transport phenomena in nano-scale solid materials Chair: Alex Rattner Co-Chair: Xili Duan	Lambda C	18638 – Numerical simulation of interface and plume formation in high-speed multiphase flow (Author - Hamid Hadim)
4:33 PM				18562 – Temperature rise at the wetting front during spontaneous imbibition on paper microstructures (Author - Alexandros Terzis)
4:51 PM				18990 – A new method for classifying the vibrational modes in disordered solids (Author - Hamid Seyf)
5:09 PM				17423 – Measuring the Hyperthermia Response of Electrospun Nanofibers (Author - Yong Gan)
5:27 PM				

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
4:15 PM	M.37	TFEC Energy, Water, and Sustainability 4 - Wind and Tidal Power Chair: Yingying Wang Co-Chair: Luz Amaya-Bower	Conga A	17438 – A Novel Design for Vertical Axis Wind Turbine (Author - Luz Amaya-Bower)
4:33 PM				17572 – Tidal Current Turbine Designs for the Gulf Stream near Florida Coastal Belt (Author - Mohammed Mayeed)
4:51 PM				18381 – A novel battery heating strategy utilizing the sub-cooling of phase change materials (Author - Ziye Ling)
5:09 PM				18330 – Solution Verification of Large Eddy Simulation for a Periodic Channel Flow (Author - Tao Xing)
5:27 PM				17739 – Heat Pumps for Molten Salt Energy Storage (Author - Maria Ramos Gonzalez)
4:15 PM	M.38	TFEC Boiling and droplet heat transfer Chair: Xi Chen Co-Chair: Xili Duan	Conga B	17366 – Influence of Microstructure Geometry on Pool Boiling at Superhydrophobic Surfaces (Author - Matthew Searle)
4:33 PM				17659 – Effect of Subcooling on Pool Boiling Heat Transfer in Water Using Sintered Copper Microporous Coating (Author - Seongchul Jun)
4:51 PM				17481 – Sub-boiling nucleation in superhydrophobic microchannels (Author - Adam Cowley)
5:09 PM				17690 – Effects of acoustics on induced droplet shedding for dropwise condensation (Author - Jorge Alvarado)
5:27 PM				
4:15 PM	M.39	IWHT Panel Session Chair: Gerardo Diaz Co-Chair: Josefa Ibaceta-Jana	Conga C	18557 – Thermal instabilities of charge carrier transport in solar cells PN junctions (Author - Josefa Ibaceta-Jaña)
4:33 PM				18604 – Analysis of heat transfer in the conditions of twin plasma torch with transferred DC electric arc (Author - Homero Maciel)
4:51 PM				18529 – Heat Transfer Analysis of Graphite Rods Subject to Joule Heating using a Modified Semi-Conductor Formulation (Author - Gerardo Diaz)
5:09 PM				18242 – Temperature increase in liquids due to high-voltage plasma discharges (Author - Gerardo Diaz)
5:27 PM				
4:15 PM	M.40	IWHT Energy conservation and storage techniques Chair: Hongto Xu Co-Chair: Ri Li	Tropical F	18808 – The enhanced specific heat capacity of ternary carbonates nanofluids with different nanoparticles (Author - Lixia Sang)
4:33 PM				18765 – Nozzle Number Effects on Thermal Stratification in Thermal Storage Tank (Author - Dong Hwan Shin, Presenter Sarng Woo Karng)
4:51 PM				18095 – Numerical Modelling of Large Length-to-Diameter Ratio Vertical Concentric-Tube Ground-Coupled Heat Exchangers (Author - John Chai)
5:09 PM				17782 – MOLECULAR DYNAMICS SIMULATIONS OF THE LOCAL STRUCTURES AND TRANSPORT COEFFICIENTS OF ALKALI CARBONATES (Author - Gechuanqi Pan)
5:27 PM				
4:15 PM	M.41	IWHT Heat/mass transfer in compact heat exchangers Chair: Ting Ma Co-Chair: Elie Keryakos	Tropical B	17969 – A review of Printed Circuit Heat Exchanger (Author - Ting Ma)
4:33 PM				18996 – Heat Performance Test and COMSOL Analysis of 800HT Printed Circuit Heat Exchanger with Wavy Channels (Author - Chan Soo Kim)
4:51 PM				18017 – Optimization of perforated plate heat exchangers (Author - Ashish B Nair & Ashish K. John)
5:09 PM				18493 – SINGLE PHASE HEAT TRANSFER IN A COMPACT HEAT EXCHANGER WORKING IN AN ABSORPTION REFRIGERATION SYSTEM (Author - Gedy Gutierrez Urueta)
5:27 PM				18372 – Fin Pitch Effect on the Frosting Cycle in a Fin-and-Tube Heat Exchanger Operating at Low Temperatures (Author - Elie keryakos)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
MONDAY, APRIL 3, 2017				
4:15 PM	M.42	IWHT Computational Methods/Tools in Thermal-Fluid Systems - Heat Pipes & Porous Media Chair: Lu Chan Co-Chair: Michael Henry	Tropical E	16865 – Thermal Resistance Network Model for Heat Pipe - PCM Based Cool Storage System (Author - Sean Hoenig)
4:33 PM				17592 – Numerical modeling study on heat transfer in a conical fluidized bed combustor with immersed heater (Author - Ik-Tae Im)
4:51 PM				
5:09 PM				
5:27 PM				
5:45 PM - 6:30 PM		Exhibition and Networking		
TUESDAY, APRIL 4, 2017				
8:00 AM - 9:00 AM		IWHT Plenary Lecture	Palma Ballroom	Evelyn N. Wang - From Nanoscale Surface Engineering to Macroscale Thermal Energy Systems Chair: Qiuwang Wang
9:00 AM - 9:15 AM		(break to walk to sessions)		
9:15 AM	T.1	TFEC Computational Methods/Tools in Thermal-Fluid Systems - Computational Fluid Dynamics I Chair: Nicholas D Francis Co-Chair: Joseph VanderVeer	Tropical A	17687 – Development of a High Performance Multi-Physics Finite Difference Model for Use in a Monte Carlo Simulation with Real World Distributions (Author - Joseph VanderVeer)
9:33 AM				17517 – NUMERICAL SIMULATION OF UPWARD FACING OIL-JET COOLING OF A FLAT PLATE (Author - Morgan Jones)
9:51 AM				17674 – THREE-DIMENSIONAL LARGE EDDY SIMULATIONS OF NATURAL CONVECTION IN LATERALLY HEATED CYLINDRICAL ENCLOSURES WITH RACKS AND SEEDS FOR CRYSTAL GROWTH (Author - Hooman Enayati)
10:09 AM				18312 – An inverse optimization for minimizing entransy dissipation during heat transfer processes (Author - Lingen Chen)
10:27 AM				17597 – Optimal Design of Impeller for a Supersonic Separator Using Response Surface Method (Author - Youn-Jea Kim)
9:15 AM	T.2	TFEC Experimental Methods/Tools and Instrumentation III Chair: S.A. Sherif Co-Chair: Nicolas Baudin	Coco B	18342 – Comparison of a Traditional Heat Sink versus a Vapour Chamber Heat Sink Cooled by Forced Convection (Author - Nicolas Baudin)
9:33 AM				17621 – An Experimental Study of Vapor Ejectors Working with R245fa (Author - Jianyong Chen)
9:51 AM				18549 – DETERMINATION OF THE EFFECT OF DIFFERENT INLET AND OUTLET WATER CIRCULATION TEMPERATURES ON THE FLOW FIELD AROUND A PANEL RADIATOR USING PIV (Author - Tamer Calisir)
10:09 AM				
10:27 AM				
9:15 AM	T.3	TFEC Fundamentals in Fluid Flow, Heat, Mass and Momentum Transfer II Chair: Zhixiong Guo Co-Chair: James Hartley	Lambada A	18504 – Particle size and speed effects on the sweeping convection in straight, isoflux channels (Author - Jose Lage)
9:33 AM				17773 – Modelling of electrically-assisted friction stir welding (Author - Jun Zhou)
9:51 AM				18707 – Novel thermal emitter for photovoltaic applications (Author - Alok Ghanekar)
10:09 AM				17979 – Mixed Convection Heat Transfer in a Lid-Driven Cavity with a Rotating Circular Cylinder (Author - Khalil Khanafer)
10:27 AM				18148 – Equation Of State And Phase Behavior Of Working Nanofluids (Author - Victor Mazur, presented by Olesii Drakhnia)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
9:15 AM	T.4	TFEC Flow and Heat Transfer in Materials Processing Science and Manufacturing Chairs: Surya P Vanka, Yuwen Zhang, Jun Zhou Co-Chair: Yong Gan	Lambda B	17663 – Effects of a Magnetic Field on Turbulence and Bubble Transport in Continuous Casting of Steel (Author - Surya P Vanka)
9:33 AM				17705 – Role of Variable Frequency Drives on Cooling Tower’s Energy Saving (Author - Ehsan Languri)
9:51 AM				19684 – A Numerical Study on the Effect of the Mixing Vane Arrangement Patterns on the Heat Removal Capability inside the Fuel Assembly (Author - Gong Hee Lee)
10:09 AM				18443 – Reliability-based optimization of Gallium Nitride Metalorganic Chemical Vapor Deposition process (Author - Pradeep George)
10:27 AM				
9:15 AM	T.5	TFEC Panel on Thermo-Fluid Education I Chair: Yitong Zhao Co-Chair: Ahmad Fakheri	Lambda C	19597 – Impact of an online learning environment on student performance and perceptions in a fluid mechanics course (Author - Yitong Zhao)
9:33 AM				18190 – Using Spreadsheets for Teaching fluid mechanics and Heat Transfer (Author - Ahmad Fakheri)
9:51 AM				Use of advanced engineering software (solid modelling with SolidWorks) in an introductory fluid mechanics course (Author - David Nobes)
10:09 AM				Thermo-Fluid Education in Switzerland (Author - John Thome)
10:27 AM				Thermo 2 lab on the vapor-compression refrigeration cycle and uses an “off-the-shelf” air conditioner, Presenter - Andrew Somme’s
9:15 AM	T.6	TFEC Two phase Flow 1 - Nanofluid transport phenomena Chair: Xili Duan Co-Chair: Min Chen	Conga A	18120 – NUMERICAL INVESTIGATION ON THE TURBULENT CONVECTIVE HEAT TRANSFER OF NANOFUID FLOWS IN A UNIFORMLY HEATED PIPE (Author - Ghofrane Sekrani)
9:33 AM				17375 – TOWARDS A CFD MODEL OF AIR-NANOFUID BUBBLY FLOWS IN A VERTICAL TUBE (Author - Yang Yuan)
9:51 AM				17456 – TWO PHASE FLOW BOILING HEAT TRANSFER COEFFICIENT AND PRESSURE DROP OF REFRIGERANT AND γ -Al ₂ O ₃ BASED NANOLUBRICANT MIXTURES IN A 9.5 MM SMOOTH TUBE (Author - Andrea Bigi presented by Lorenzo Cremaschi)
10:09 AM				18573 – LDV AS AN OPTICAL TECHNIQUE FOR MEASUREMENT OF PLUG/SLUG FREQUENCY IN GAS-LIQUID TWO-PHASE FLOW (Author - Jignesh Thaker)
10:27 AM				18407 – A molecular dynamics simulation on the cavitation of water with nanoparticles (Author - Min Chen)
9:15 AM	T.7	TFEC Two phase Flow - Condensation Chair: Mirza Shah Co-Chair: Hu Hui	Conga B	17549 – Research on condensation oscillation characteristic of steam submerged unstable jet condensation (Author - Daotong Chong)
9:33 AM				17775 – Condensation Heat Transfer Characteristics and Pressure Drop of R410A and R22 in multiport rectangular channel (Author - Jong-Taek Oh)
9:51 AM				17720 – A theoretical model for the design modeling of biphilic surface (Author - Smreeti Dahariya)
10:09 AM				18281 – Droplet coalescence and departure mechanisms on flexible flapping films (Author - Xi Chen)
10:27 AM				17691 – Effects of non-condensable gases on mini-channel flow condensation (Author - Xi Chen)
9:15 AM	T.8	IWHT CFD and numerical heat/mass transfer Chair: Lian Shen Co-Chair: Zeng-Yao Li	Conga C	18209 – Study on the natural circulation under rolling condition by using CFD methodology (Author - Tenglong Cong)
9:33 AM				18102 – Fast Simulation Technology of Hydraulic and Thermodynamic Calculation in Natural Gas Pipeline Network Based on GPU (Author - Yue Xiang)
9:51 AM				18097 – NUMERICAL STUDY ON BATCH TRANSPORTATION OF CRUDE OIL PIPELINE WITH DIFFERENT OUTLET TEMPERATURES (Author - Qing Yuan)
10:09 AM				18566 – NUMERICAL SIMULATION OF DROPLET IMPACTING ON CHEMICALLY STRIPED PATTERNED SUBSTRATE (Author - Hong Wang)
10:27 AM				17671 – NUMERICAL STUDY OF FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS OF AN IN-LINE CIRCULAR TUBE BANK FIN HEAT EXCHANGER WITH PUNCHED CURVE DELTA-WINGLET VORTEX GENERATORS (Author - Liang-Bi Wang)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
9:15 AM	T.9	IWHT Heat/mass transfer enhancement techniques Chair: Gerardo Diaz Co-Chair: Xudong An	Coco A	17645 – THT FIN SIDE FLOW AND HEAT TRANSFER CHARACTERISTICS OF CIRCULAR TUBE BANK FIN HEAT EXCHANGER WITH THE TRANGULARWAVY FINS (Author - Liang-Bi Wang)
9:33 AM				17523 – Experimental Study on the Pool and Flow Boiling Heat Transfer Enhancement for Silicon Chips with Microstructured Surfaces (Author - Jinjia Wei)
9:51 AM				17326 – SURFACE HEAT TRANSFER CHARACTERISTICS DURING TRANSIENT SPRAY COOLING (Author - Bin Chen)
10:09 AM				17390 – Dropwise Condensation Heat transfer on Hydrophobic Sine-shape Microgrooved Surfaces (Author - Baojin Qi)
10:27 AM				17804 – Experimental investigation of Forced convection heat transfer over a plate with nozzle plate (Author - Rupesh Yadav)
9:15 AM	T.10	IWHT Multiphase heat/mass transfer Chair: Jian Yang Co-Chair: Elie Keryakos	Tropical B	18815 – STEAM ENGINE–PUMP WITH PERCUSSIVE BOILING (Author - Evtikhi Machavariani)
9:33 AM				17553 – Visualization of droplet condensation in membrane distillation desalination with surface modification: hydrophilicity, hydrophobicity, and wicking spacers (Author - David Warsinger)
9:51 AM				17579 – NUMERICAL SIMULATION OF FULL FLOW HEAT TRANSFER PROCESSES AND POST-DRYOUT MIST FLOW REGION IN ONCE-THROUGH STEAM GENERATORS (Author - Jianxin Shi)
10:09 AM				18073 – NUMERICAL SIMULATION ON VERTICAL UPWARD GAS-LIQUID ANNULAR FLOW BASED ON THE S-CLSVOF METHOD (Author - Yajun Deng)
10:27 AM				18008 – Experimental Study For The Reflood Behavior of the Nuclear Reactor In Medium And High Pressure Conditions Using 3x3 Heater Bundle (Author - Jongrok Kim)
9:15 AM	T.11	IWHT Fundamental Fluid Flow and Heat Transfer - Heat Transfer Applications IV Chair: Mahmood Alqelf Co-Chair: Xing Yang	Tropical E	17297 – Li-ion Battery Thermal Management – Air vs. Liquid Cooling (Author - Taeyoung Han)
9:33 AM				18094 – NUMERICAL SIMULATION ON THE COUPLED WATER-HEAT-STRESS FIELD OF FROZEN SOIL AROUND THE CRUDE OIL PIPELINE WITH THERMOSYPHONS (Author - Lichao Fang)
9:51 AM				18399 – Hybrid MD-LBM method for fluid flow based on the continuous and discrete velocity distribution functions (Author - Zi-Xiang Tong)
10:09 AM				18521 – Numerical simulation of oil return in compressor gas-liquid separator (Author - Rui Ma)
10:27 AM				17908 – Experimental investigation on the effect of a novel finned tube generator on the optimization of a solar powered refrigerator using NH3-CaCl2 working pair and activated carbon (Author - Amir Hossein Ghahremani)
9:15 AM	T.12	TFEC Multiphase heat/mass transfer Chair: Lap Mou Tam Co-Chair: Hou Kuan Tam	Tropical F	17617 – Thin Film Evaporation of Liquid Nitrogen on a Micro Structured Surface (Author - Xili Duan)
9:33 AM				18414 – DNS Study of Heat Transfer in Particle-Laden Turbulent Channel Flows (Author - Lian Shen)
9:51 AM				17893 – NUMERICAL SIMULATION OF NUCLEATE BOILING IN SHALLOW LIQUID BY VOSET (Author - Le Lei)
10:09 AM				17736 – NUMERICAL INVESTIGATIONS OF SUBCOOLED FLOW BOILING IN A PEBBLE BED (Author - Shanshan Bu)
10:27 AM				17984 – Heat transfer coefficient and pressure drop characteristics of R410A condensation during upward flow in vertical smooth and micro-fin tubes (Author - Li Jia)
10:45 AM - 11:00 AM		Refreshment Break	Hallway	

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
11:00 AM	T.13	TFEC Aerospace Applications Chair: David Pratt Co-Chair: Tate Fanning	Tropical A	18838 – UNCERTAINTY ESTIMATION FOR THE SPATIAL AND TEMPORAL RESOLUTION IN DETACHED EDDY SIMULATIONS (DES) OF TRANSONIC FLOW OVER AN OPEN CAVITY (Author - Debashis Basu)
11:18 AM				17566 – Numerical Study of the Effects of Tip Clearance and Inlet Diffusion on Inducer Backflow (Author - Tate Fanning)
11:36 AM				17368 – Prediction Model and Verification of Explosive Ignition in Exploding Foil Initiator System (Author - Kyoungjin Kim)
11:54 AM				17999 – A Localized RBF-MQ Meshless Method for Simulating Compressible Flows (Author - Ebrahim Nabizadeh Shahreababak)
12:12 PM				
11:00 AM	T.14	TFEC Computational Methods/Tools in Thermal-Fluid Systems - Computational Fluid Dynamics II Chair: Darrell Pepper Co-Chair: Michael Harris	Coco B	18415 – CFD simulation to evaluate the insulation performance of the vapor cooled shield in a liquid hydrogen tank (Author - Gwang Hoon Rhee)
11:18 AM				18417 – Numerical Study of Contoured Endwall Flow and Heat Transfer With Combustor Coolant and Film Cooling Flows for a Turbine Nozzle Guide Vane (Author - Mahmood H. Alqefli)
11:36 AM				18442 – Investigation on the Flow Behavior of the Tire Drainage via CFD and Experimental Studies (Author - Yean-Der Kuan will be presented by Mr. Chih-Yao Chen)
11:54 AM				17783 – Meshless Method using a RBF Interpolation Blending Scheme for inviscid Compressible Flows (Author - Michael Harris)
12:12 PM				
11:00 AM	T.15	TFEC Experimental Methods/Tools and Instrumentation IV Chair: Olexiy Buyadgie Co-Chair: David Nobes	Lambda A	18384 – Implementation of Focused Plenoptic Time-Resolved 3D-PTV in the Analysis of a Vortex Flow (Author - David Nobes)
11:18 AM				18626 – Wind Turbine Aerodynamics (Author - Ryo S. Amano)
11:36 AM				18390 – MEASUREMENT OF THE 3D FLOW FIELD OUT OF HIGH ASPECT RATIO SLOTS (Author - David Nobes)
11:54 AM				18340 – Two-Phase Flow Regime Identification Through Local Temperature Mapping (Author - Alan O'Donovan, presented by Tim Conroy)
12:12 PM				17727 – Material Thermal Properties Analysis of Sapphire and Silicon Nitride Using Cryogenic Cycling (Author - Sonya Smith)
11:00 AM	T.16	TFEC Fundamentals in Fluid Flow, Heat, Mass and Momentum Transfer III Chair: Moussa Mirehei Co-Chair: Hamid Seyf	Lambda B	
11:18 AM				19088 – Internal air flow modeling for an open-type induction motor based on equivalent thermal circuit method (Author - Chiwon Kim)
11:36 AM				19090 – The orientation effect of various fin-type cylindrical heat sinks (Author - Seung-Jae Park)
11:54 AM				19596 – Experimental Investigation of Heating of Supercritical Carbon Dioxide in Microchannels (Author - Brian Fronk)
12:12 PM				
11:00 AM	T.17	TFEC Computational Methods/Tools in Thermal-fluid Systems II Chair: Nesrin Ozalp Co-Chair: David Carrington	Lambda C	
11:18 AM				17591 – MATHEMATICAL MODELLING OF THE DISCHARGED HEATWATER EFFECT ON THE AQUATIC ENVIRONMENT FROM THERMAL POWER PLANT BY USING TOWWATER DISCHARGED PIPES (Author - Alibek Issakhov)
11:36 AM				18339 – Multi-Objective Shape Optimisation of Natural Convection Cooled Plate-Fin Heat Sinks with Localised Heat Sources (Author - Sajad Alimohammadi)
11:54 AM				17556 – Optimal Design of Longitudinal-Fin Heat Sinks Accounting for Simultaneously Developing Flow and Conjugate Effects (Author - Georgios Karamanis)
12:12 PM				17611 – Transient Thermal Convexity of Tubular Heat Exchangers (Author - Moulay Abdelghani-Idrissi)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
11:00 AM	T.18	TFEC Two phase Flow 10- Dispersed twophase flows, jets, and films Chair: Mirza Shah Co-Chair: Hu Hui	Conga A	17511 – Experimental Investigation of Surface Flows and Heat Transfer Induced by Hexagonal Droplet Impingement Array (Author - Jorge Alvarado)
11:18 AM				17916 – Simulation of supersonic Injection of Aerated Liquid Jet (Author - Khaled Sallam)
11:36 AM				17995 – NUMERICAL SIMULATIONS OF PARTICLE DISPERSION IN A CIRCULAR SHEAR LAYER (Author - Jordi Pallares)
11:54 AM				17771 – An experimental study of spatiotemporally resolved heat transfer in falling-film flows by laser-induced fluorescence, particle tracking velocimetry and infrared thermography (Author - Alexandros Charogiannis)
12:12 PM				17710 – Modeling Aerodynamic Break-up of Liquid Drops in a Gas Flow with Molecular Dynamics Analogy Methods (Author - Alexander Brown)
11:00 AM	T.19	TFEC Two phase Flow 8- Multiphase flow in porous medium, fluidized bed and other complex geometry Chair: Wojciech Lipinski Co-Chair: Liang Gong	Conga B	18324 – VISUAL EXPERIMENT ON PERFORMANCE OF R124-DMAC BUBBLE ABSORPTION PROCESS IN A VERTICAL TUBE (Author - Mengnan Jiang)
11:18 AM				17966 – CFD Simulation of Coal Gasification in a Bubbling Fluidized Bed Reactor (Author - Francine Battaglia)
11:36 AM				17757 – Metal-oxide based chemical looping for carbon dioxide capture and thermal energy storage: thermal transport and thermochemical conversion in single reacting particles (Author - Wojciech Lipinski)
11:54 AM				17496 – Flow structures and the dynamics in the wake of a bubble rising close to a vertical wall (Author - Hyungmin Park)
12:12 PM				18496 – Study of the Effect of Wall Boundary Conditions on the Predictions of the Liquid-Solid Flows in Fluidized Beds (Author - Chao Zhang)
11:00 AM	T.20	IWHT Advanced energy systems Chair: Chin-Hsiang Cheng	Conga C	17795 – MULTI-OBJECTIVE OPTIMIZATION OF S-CO ₂ RECOMPRESSION BRAYTON CYCLE INTEGRATED INTO EXISTING MATURE MOLTEN SALT POWER TOWER (Author - Kun Wang)
11:18 AM				18467 – TRANSIENT NUMERICAL STUDY OF NOVEL COMPOSITE ADSORBENT FOR COOLING APPLICATIONS (Author - Sourav Mitra)
11:36 AM				18827 – Experimental Study on Pump Applied in Organic Rankine Cycle System (Author - Weicong Xu)
11:54 AM				19202 – Theoretical Analysis of a Pulse-tube Stirling Cooler (Author - Yu-Ting Lin)
12:12 PM				19203 – A Theoretical Model and Optical Design by SCGM for a Pulse-tube Stirling Engine (Author - Yu-Ting Lin)
11:00 AM	T.21	IWHT Micro/Nano Heat/Mass Transfer Chair: Lei Chen Co-Chair: Xudong An	Coco A	17524 – CFD Study of Microfluidic Oscillator Characteristics for Flow-Separation Control (Author - Tawfiq Chekifi)
11:18 AM				18180 – EXPERIMENTAL STUDIES OF HEAT TRANSFER ANALYSIS OF MICROCHANNEL HEAT SINK THROUGH DIFFERENT MANIFOLD ARRANGEMENTS (Author - Anurag Dahiya)
11:36 AM				17988 – Joule Heating and Laser Flash Tip-enhanced Raman Spectroscopy Method for Characterizing Specific Heat of a Single Nanoparticle (Author - Xing Zhang)
11:54 AM				18047 – Fast Quenching onto CuO porous micro-structured surface (Author - Junyoung Kang, presented by Gi Cheol Lee)
12:12 PM				17638 – Study on Methane Adsorption in Graphite Slit-pores by Molecular Dynamics (Author - Lei Chen)
11:00 AM	T.22	IWHT Heat/mass transfer enhancement techniques Chair: Wen Tao Ji Co-Chair: Michael Henry	Tropical B	18505 – EFFECT ON NUMBER OF BLOCKS ON THE PERIODIC NATURAL CONVECTION INSIDE AN ENCLOSURE HEATED FROM THE SIDE (Author - Jose Lage)
11:18 AM				18167 – Heat Transfer Characteristics of Single-Phase Liquid Impingement Jet on Nanowire Coated Surface (Author - Namkyu Lee)
11:36 AM				18523 – Evaluation of Heat Exchanger Designs using Enhanced Heat Transfer Tubes (Author - David Kukulka)
11:54 AM				18061 – Cooling Enhancement of Drop Impact on Flowing Liquid Film (Author - Ri Li)
12:12 PM				17538 – Comparative Study of Pool Boiling Heat Transfer from Microchannel of different Geometries (Author - Avdhoot Walunj)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
11:00 AM	T.23	IWHT Heat/mass transfer in renewable and clean energy systems Chair: Gerardo Diaz	Tropical E	18244 – Low-grade Steam generation with non-concentrated Minichannel-based solar collector (Author - Gerardo Diaz)
11:18 AM				18224 – Development of an Optimal Control Strategy to Regulate Temperature in a Solar Receiver (Author - Nesrin Ozalp)
11:36 AM				19652 – Heat Transfer Simulations of a Solar Air Receiver Under the Concentrated Solar Flux (Author - Hyunjin Lee)
11:54 AM				18269 – Thermodynamic cycle analysis for an ideal NiFe ₂ O ₄ /NiO-FeO redox reaction (Author - Yong Shuai)
12:12 PM				18138 – Experimental investigation of flow and convection heat transfer of CO ₂ at super-critical pressures in small vertical tube with helical wire insert (Author - Chao Xiong)
11:00 AM	T.24	IWHT Multiphase heat/mass transfer Chair: Todd Bandhauer Co-Chair: Tao Xing	Tropical F	18589 – The spherical segment droplet model validation on solid substrate (Author - Yaqiong Chen)
11:18 AM				18822 – EXPERIMENTAL STUDY ON TWO-PHASE SEPARATION IN A T-JUNCTION (Author - Wen Su)
11:36 AM				18334 – Experimental system for the flash evaporation with high pressure and high temperature (Author - Siguang Li)
11:54 AM				17541 – Experimental investigation of the heat transfer in a horizontal mini-tube with three different inlet configurations (Author - Hou Kuan Tam)
12:12 PM				17552 – FALLING FILM EVAPORATION OUTSIDE A HORIZONTAL PLAIN TUBE AND A TUBE BUNDLE WITH R410A (Author - Puhang Jin)
12:30 PM - 12:45 PM		(break to walk to lunch in Rio)		
12:45 PM - 2:15 PM		TFEC Plenary Luncheon	Amazon G Ballroom	Pat Mulroy - Reinventing Water Management in the 21st Century Chair: Darrell Pepper
2:15 PM - 2:30 PM		(break to walk to sessions)		
2:25 PM - 3:10 PM		WHT Keynote Lecture	COCO A room	Zhixiong Guo - Radiation Transport Applied to Energy, Biomedicine, Micro/Nano Fabrication and Sensing Chair: William Worek
3:15 PM - 4:00 PM		IWHT Keynote Lecture	COCO A room	John Chai - An Integrated Thermodynamics-Transport Model for Asphaltene Deposition in Pipelines and Wellbores Chair: Wen-Quan Tao
2:30 PM - 4:00 PM		Technology, Entrepreneurship, Communications, (TEC) Talk	Palma Ballroom	Svante Littmarck – Building Multiphysics Apps for Users in the Real World Pat Mulroy – Reinventing Water Management in the 21st Century William Worek – Challenges in Comfort Cooling: Separating Sensible and Latent Loads - Material Constraints and New Opportunities Joseph Lombardo – Leveraging High Performance Computing for Alzheimer’s Research and Beyond Daniel Seagleman – Predicting The Future is not Really Getting Easier Leslie Phinney – Sustaining an Engineering Career Chair: John Lloyd Co-Chair: Darrell Pepper
4:00 PM - 4:15 PM		(break to walk to sessions)		

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
4:15 PM	T.25	TFEC Heat Transfer and Fluid Flow in Biosystems-Biomedical applications I Chair: Eduardo Divo Co-Chair: Alain Kassab	Tropical A	18026 – Simulation of the Flow of Single Stranded DNA through a Microchannel using Dissipative Particle Dynamics (Author - Khaled Sallam)
4:33 PM				17666 – Hemodynamics of Cerebral Aneurysms under Rest and Exercise Conditions (Author - Shivam Patel)
4:51 PM				18781 – Laboratory Development of a Self-Powered FONTAN for Treatment of Congenital Heart Disease (Author - Eduardo Divo)
5:09 PM				18385 – Time-resolved PIV of the pulsatile flow field downstream of a mock aorta in an ex vivo heart perfusion model (Author - David Nobes)
5:27 PM				17898 – A Fundamental Equation for the Bubble Point Formation Volume Factor of world Crude Oils (Author - PETER URHOBO OHIRHIAN)
4:15 PM	T.26	TFEC Computational Methods/Tools in Thermal-Fluid Systems - Computational Method Algorithms I Chair: Sam Subia Co-Chair: Gennady Ziskind	Coco B	18159 – A general numerical approach to melting of moving bodies (Author - Gennady Ziskind)
4:33 PM				17744 – Modeling and simulation of droplet dynamics with a Lagrangian volume of fluid method (Author - Everett Wenzel)
4:51 PM				17151 – THREE DIMENSIONAL SIMULATION OF AC ELECTROTHERMAL PUMPING BY LATTICE BOLTZMANN METHOD WITH NON-UNIFORM MESHES USING GPU (Author - Cho Lik Chan)
5:09 PM				18027 – Time Step Estimates for Lorentz Force Driven Convective Transport (Author - Zhang Xiaohui)
5:27 PM				
4:15 PM	T.27	TFEC Fundamental Fluid Flow and Heat Transfer - Energy Applications Chair: Patrick H Oosthuizen Co-Chair: Lingen Chen	Lambda A	18293 – Cost reduction and Performance improvement of Low Melting Point Molten Salts for High Temperature Heat Transfer and Storage (Author - Yuting Yu Wu)
4:33 PM				18313 – Dynamic programming for power-optimization of multistage isothermal irreversible chemical engines with diffusive mass transfer law (Author - Lingen Chen)
4:51 PM				17537 – DNS study on heat transfer of viscoelastic forced homogeneous isotropic turbulent flows (Author - Wenhua Zhang)
5:09 PM				18387 – Effect of aspect ratio on pressure loss and characteristics of low Reynolds number flow through narrow slots (Author - David Nobes)
5:27 PM				18452 – Hot-spot cooling by directional transport of jet impinging orthogonally on wettability-patterned surface (Author - Theodore Koukoravas)
4:15 PM	T.28	TFEC Industrial and Commercial Processes - Computational Modeling of Industrial Process I Chair: Aneesha Gogineni Co-Chair: Bahram Khalighi	Lambda B	18556 – Air Cooling Concepts for Li-ion Battery Pack in Cell Level (Author - Kuo-Huey Chen, presented by Bahram Khalighi)
4:33 PM				17815 – Electrohydrodynamic (EHD) heat transfer enhancement in low primary airflow velocities (Author - Erik Bardy)
4:51 PM				17402 – A Numerical Model of a Two-Pass, Cross-Flow Conformal Heat Exchanger for Aerospace Applications (Author - Nicholas Truster)
5:09 PM				17706 – Simulation of ohmic sterilization mango pulp (Author - Mario Calderón)
5:27 PM				17389 – Increasing Fast Refill of Compressed Natural Gas by Active Heat Removal (Author - Ri Li)
4:15 PM	T.29	TFEC Micro and Nano-Scale Systems 4- Thermal transport phenomena in nano-scale solid materials Chair: Jaeho Lee Co-Chair: Qian Zhang	Lambda C	17570 – Thermal Conductivity of Individual Boron Carbide Nanowires (Author - Qian Zhang)
4:33 PM				17721 – Thermal Transport in Silicon Nanowires at High Temperatures (Author - Jaeho Lee)
4:51 PM				17374 – NUMERICAL STUDY OF A MIXED CONVECTION OF NANOFLUID IN A CAVITY FILLED WITH A POROUS MEDIUM FOR DIFFERENT LOCATIONS OF THE HEAT SOURCES (Author - Ali Al-Zamily)
5:09 PM				17627 – Optimizing parameters of Si nanoring arrays for optical absorption enhancement (Author - Dongli Lu)
5:27 PM				

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
4:15 PM	T.30	TFEC Energy and Sustainability 5 Chair: Yaroslav Chudnovsky Co-Chair: Arpan Kundu	Conga A	18568 – WATER RECOVERY AS BYPRODUCT OF THE HEAT RECOVERY SYSTEM (Author - Rahim Sajwani)
4:33 PM				19679 – Thermoelectric supercapacitor for waste heat recovery (Author - Arpan Kundu)
4:51 PM				18150 – Parametric study and CFD Analysis of Air Filter (Author - Dhanapal Ananda Kamble)
5:09 PM				18146 – Binary Fluids Application In The Ejector Energy Systems (Author - Olexiy Buyadgie, presented by Oleksii Drakhnia)
5:27 PM				18796 – INVESTIGATION ON THE APPLICATION OF PHASE CHANGE COMPOSITE WITH CNTS IN WATER HEATER (Author - Jifen Wang)
4:15 PM	T.31	TFEC Two phase Flow - Phase change materials, melting, solidification and freezing Chair: Xili Duan Co-Chair: Liang Gong	Conga B	17642 – Numerical predictions of Transient Cooling and Phase Change of a Falling Drop in Sub-zero Air Temperatures (Author - Kaniz R Sultana)
4:33 PM				17681 – Predicting the Frost Density on Hydrophilic and Hydrophobic Surfaces: A New Semi-Empirical Correlation (Author - Andrew Sommers)
4:51 PM				17670 – Characterizing Uncertainties in a Thermal Storage Packed Bed using Bayesian Inference with MCMC and Variational Approximations (Author - Ashley Emery)
5:09 PM				18831 – Melting and Evaporation Simulation of Tungsten under High Heat Flux Condition in Nuclear Fusion Reactors (Author - Geon-Woo Kim)
5:27 PM				17478 – Influence of temperature processes in the work of the linear pulse electromechanical transducer induction type (Author - Igor Katkov)
4:15 PM	T.32	IWHT CFD and numerical heat/mass transfer Chair: Zeng Yao Li Co-Chair: Hu Zhang	Conga C	17120 – A Numerical Investigation of Heat and Mass Transfer Phenomena in a Tapered Channel with Reciprocating Flow (Author - Motti Raizner)
4:33 PM				17643 – Numerical and Experimental Study on Heat Transfer Characteristic and Thermal Load near refrigerating gasket of a Frost-free Refrigerator (Author - Qi Chen)
4:51 PM				18204 – Numerical Simulation of the Fluid-Solid Mixture Flow Based on the MPS method (Author - Kailun Guo)
5:09 PM				17608 – Numerical Studies on Tubular Heat Exchangers for Cooled Cooling Air System of Aero-engine (Author - Yu Guanglei)
5:27 PM				17934 – A NUMERICAL STUDY ON THE EFFECTS OF NUMBER OF JETS ON SWIRL COOLING OF A GAS TURBINE BLADE LEADING EDGE (Author - Zhenping Feng, presented by Zhao Liu)
4:15 PM	T.33	IWHT Heat/mass transfer in renewable and clean energy systems Chair: Pey-Shey Wu Co-Chair: Brian Vick	Coco A	17605 – Unsteady Energy Transfer in Vertical Geothermal Systems (Author - Olga Kordas)
4:33 PM				19523 – Exergy analysis and performance evaluation of a hybrid PV/T system based on plasmonic nanofluids (Author - Mu Du)
4:51 PM				18459 – On-Sun Testing of Hybrid Concentrating Photovoltaic/Thermal Solar Collector with Selective Nanoparticle Absorption (Author - Todd Otanicar)
5:09 PM				18463 – On-Sun Performance of Photovoltaic Cells after High Temperature Thermal Cycling (Author - Todd Otanicar)
5:27 PM				
4:15 PM	T.34	IWHT Panel - Nuclear Thermal Hydraulics Chair: Guanghui Su	Tropical B	Research on severe accident phenomenology of light water reactors, Presenter – Professor Guanghui Su
4:33 PM				Challenges and opportunities in fluoride salt-cooled high temperature reactor research and development, Presenter - Prof. Lin-Wen Hu
4:51 PM				Laser diagnostic technique in study of reactor thermal Hydraulics, Presenter – Prof. Tan Sichao
5:09 PM				Heat transfer in homogeneous and stratified melt pools in the lower head of a reactor pressure vessel, Presenter - Dr. Alexei Miassoedov
5:27 PM				

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
TUESDAY, APRIL 4, 2017				
4:15 PM	T.35	TFEC Panel on Thermo-Fluid Education II Chair: Ahmad Fakheri Co-Chair: Wenquan Tao	Tropical E	Heat Transfer Education In China (Presenter - Wenquan Tao)
4:33 PM				Teaching experience and implementation of heat transfer course (Presenter – Liangbi Wang)
4:51 PM				Correlating applied CFD simulations with lab experiments (Jorge Kurita Nagasawa)
5:09 PM				Combining Laser Diagnostics and CFD for undergraduate fluid education - Does it work? (Presenter - Khaled Sallam)
5:27 PM				Students’ beliefs about their own intelligence and how it affects their attitudes and learning (Presenter – Amy Betz)
5:45 PM - 6:30 PM		Exhibition and Networking		
WEDNESDAY, APRIL 5, 2017				
8:00 AM - 9:00 AM		IWHT Plenary Lecture	Palma Ballroom	Wen-Quan Tao - Some Recent Advances in Computational Heat Transfer & Fluid Flow Chair: Terrence Simon
9:00 AM - 9:15 AM		(break to walk to sessions)		
9:15 AM	W.1	TFEC Combustion, Fire and Fuels Experimental Techniques Chair: Alexander Brown Co-Chair: Flint Pierce	Tropical A	17745 – HHO-OPERATED HYDROGEN ASSISTED COMBUSTION TO REDUCE FUEL CONSUMPTION AND EMISSION DURING HOT WEATHER CONDITION - A CASE STUDY USING 1496 CC ENGINE FROM TOYOTA 1NZ-FE VVT-I (Author - Aldo Villalba)
9:33 AM				17997 – Effect of Particle Size on the Burnout and Emissions of Particulate Matter from Combustion of Pulverized Biomass in a Drop Tube Furnace (Author - Mário Costa)
10:15 AM				17716 – Application of Computed Tomography - Tunable Diode Laser Absorption Spectroscopy to Combustion Analysis (Author - Yoshihiro Deguchi)
10:33 AM				18106 – Turbulent Inhomogeneous Autoignition of Polydispersed n-Heptane Droplets: An Experimental Study (Author - Ajay Gupta)
11:15 AM				18111 – High Efficiency Combustion System for Stirling Engine (Author - Aleksandr Kozlov)
9:15 AM	W.2	TFEC Computational Methods/Tools in Thermal-Fluid Systems - Computational Method Algorithms II Chair: Nicholas Francis, Co-Chair: Chuanshan Dai	Coco B	17513 – Transient Thermal Model for Loop Heat Pipes (Author - Denis Mahony)
9:33 AM				17424 – Microchannel Cooling of Microprocessor with Non-Uniform heating using Porous Media Thermal Modelling (Author - Akshay Iyer)
10:15 AM				17752 – FEM simulation of thermo-diffusion effects on MHD flow of nanofluid over an exponentially stretching sheet with application to extrusion (Author - Rangoli Goyal)
10:33 AM				18058 – Thermochemical Model of Intumescent Fire Protection Coating (Author - Marvin Larsen)
11:15 AM				17857 – PUMPING OR REINJECTION SOURCE TERM TREATMENT OF DARCY’S FLOW IN POROUS MEDIA USING LBM (Author - Chuanshan Dai)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
WEDNESDAY, APRIL 5, 2017				
9:15 AM	W.3	TFEC Fundamental Fluid Flow and Heat Transfer - Fundamentals II Chair: Ehsan Languri Co-Chair: Debashis Basu	Lambada A	18840 – Spectral Analysis of Unsteady Turbulent Flow and Thermal Mixings in T-Junctions in Coolant Loop of Pressurized Water Reactors (Author - Debashis Basu)
9:33 AM				18839 – Turbulence Induced Thermal Mixing Effects and Thermal Fatigue analysis in T-Junction Configurations in Pressurized Water Reactors (PWR) (Author - Debashis Basu)
10:15 AM				17673 – CALCULATIONS OF TURBULENT FLOW THROUGH A STAGGERED TUBE BANK (Author - Basara Branislav)
10:33 AM				17355 – 3-D Numerical and experimental simulation of spray cloud formation due to wave-body interactions (Author - Armin Bodaghkhani)
11:15 AM				18389 – Flow visualization of electro kinetic driven flow through mini-channels in SAGD wells (Author - David Nobes)
9:15 AM	W.4	TFEC Industrial and Commercial Processes - Advances in Heat Exchangers Chair: Mohammad Reza Shaeri Co-Chair: Jun Wang	Lambada B	17214 – Air Cooling Concepts for Li-Ion Battery Pack Thermal Management (Author - Erik Yen will be presented by Dr. Bahram Khalighi)
9:33 AM				18449 – Turbulent flow in an axisymmetric channel with a sinusoidal contraction and a layer of porous material (Author - Marcelo J.S. de Lemos)
10:15 AM				18450 – Turbulent flow in a channel with porous baffles simulated with linear and non-linear models (Author - Marcelo J.S. de Lemos)
10:33 AM				18314 – Air-cooling thermoelectric power generation from wastewater (Author - Lingen Chen)
11:15 AM				18343 – Development and Application of Micro Channel Heat Exchanger for Heat Pump (Author - Jun Wang)
9:15 AM	W.5	TFEC Electric, Magnetic, Flow and Thermal Phenomena in Micro and Nano-Scale Systems Chair: Yaroslav Chudnovsky Co-Chair: Luat Vuong	Lambada C	19763 – Thermal Cycles and Electrohydrodynamic Instabilities in Plasmonic Nanofluids (Author - Luat Vuong)
9:33 AM				18386 – Design and fabrication of the piezoelectric actuated air forced convection thermal management and application to high power LED cooling (Author - Chiang-Ho Cheng)
10:15 AM				18460 – PPROXIMATION ERROR MODEL FOR STATE ESTIMATION IN THE RADIOFREQUENCY HYPERTHERMIA TREATMENT OF CANCER (Author - Leonardo Bermeo Varon)
10:33 AM				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)
11:15 AM				18889 – Thermomagnetic convection of ferrofluid due to non-uniform internal magnetic field. (Author - Ashkan Vatani)
9:15 AM	W.6	TFEC Energy and Sustainability 6 Chair: Lorenzo Cremaschi Co-Chair: Vaibhav Bahadur	Conga A	17806 – Waste natural gas-based atmospheric water harvesting (AWH) for oil production (Author - Vaibhav Bahadur)
9:33 AM				17672 – Thermodynamic Modeling of a Free Piston Vuilleumier Heat Pump (Author - Hanfei Chen, presented by Jon Longtin)
10:15 AM				18345 – Simulation of a NGCC Power Plant at Elevated Temperatures (Author - Todd Bandhauer)
10:33 AM				18302 – Performance Model of a Waste Heat Driven Turbo-Compression Chiller (Author - Todd Bandhauer)
11:15 AM				
9:15 AM	W.7	TFEC Two phase Flow 12- Other multiphase flow and heat transfer problems Chair: Xi Chen Co-Chair: Wojciech Lipinski	Conga B	17758 – Experimental investigation of carbon dioxide capture and high-temperature thermal energy storage via metal oxide chemical looping in a 1 kW solar prototype reactor (Author - Wojciech Lipinski)
9:33 AM				17900 – Single phase convective heat transfer in a rod bundle containing partial blockage (Author - Ngoc Hung Nguyen)
10:15 AM				17413 – Utilizing Phase-Change Material to Thermally Regulate and Capture Heat from Building-Integrated Photovoltaic Panels (Author - Sandra Boetcher)
10:33 AM				18232 – Effects of the Configuration of Vane Distributor on the Separation Efficiency of FWKO (Author - Youn-Jea Kim)
11:15 AM				17362 – Capillary rise and swelling in cellulose sponges (Author - Jonghyun Ha)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
WEDNESDAY, APRIL 5, 2017				
9:15 AM	W.8	IWHT CFD and numerical heat/mass transfer Chair: Xian Wang	Conga C	17494 – LARGE-SCALED NUMERICAL INVESTIGATION ON FILM COOLING WITH CASCADED DOUBLE JETS (Author - Yanqin)
9:33 AM				17554 – Numerical and Experimental investigations of Flow and Heat Transfer in a concentric Helical Coils (Author - John Kennedy)
10:15 AM				18069 – ANALYSIS OF RADIATIVE HEAT TRANSFER ON MEASURING THERMAL CONDUCTIVITY OF SEMI-TRANSPARENT MATERIALS USING TRANSIENT PLANE SOURCE METHOD (Author - Hu Zhang)
10:33 AM				18169 – A novel spacer grids with rectangular wing longitudinal vortex generators in a 5x5 rod bundle (Author - Junmei Wu)
11:15 AM				17550 – INTERACTIONS OF COMBUSTOR WALL AND FILM COOLING ON ENDWALL FOR A FIRST-STAGE VANE (Author - Zhenping Feng)
9:15 AM	W.9	IWHT Energy conservation and storage techniques Chair: Umesh Madanan	Coco A	18440 – Limits of latent heat storage charging (Author - Bart Peremans)
9:33 AM				17595 – IMPROVEMENTS OF NEWLY DEVELOPED ADSORPTION HEAT PUMPS GENERATING HIGH TEMPERATURE STEAM FROM WASTED HOT WATER (Author - Jun Fukai)
10:15 AM				18462 – Thermal Processes Operational Optimization Through Avoidable and Unavoidable Exergy Destruction Evaluation, A Case Study. (Author - Renato Bello)
10:33 AM				18369 – Temperature control schemes for buildings with a PCM-composite envelope (Author - Laurent Pilon)
11:15 AM				
9:15 AM	W.10	IWHT Heat/mass transfer in compact heat exchangers Chair: Ting Ma Co-Chair: Joseph Bassila	Tropical B	18168 – Optimal Design of Heating Element to Enhance Thermal Performance in Gas-Gas Heater (Author - Young Mun Lee)
9:33 AM				17649 – COMPARISON OF THE PERFORMANCES BETWEEN THE CHANNEL AND THE CORRUGATED CHANNEL OF THE SPHERICAL CONVEX/CONCAVE FIN (Author - Liang-Bi Wang)
10:15 AM				18648 – Effect of hydrodynamic boundary layer structure on the performance of a swirl flow microchannel heat sink for high heat flux applications (Author - Benjamin Herrmann-Priesnitz)
10:33 AM				19089 – Frosting behaviors on a superhydrophobic heat exchanger (Author - Hisuk Kim)
11:15 AM				
9:15 AM	W.11	IWHT Micro/Nano Heat/Mass Transfer Chair: Yi-Tung Chen	Tropical E	18015 – Sedimentation of particles and aggregates in colloids considering both streaming and seepage (Author - Dengwei Jing)
9:33 AM				17535 – NANOFUID THERMAL CONDUCTIVITY (Author - Saeid Vafaei)
10:15 AM				
10:33 AM				17433 – THE THERMAL CONDUCTIVITY OF POLYMERS DEPEND ON COMBINED EFFECTS OF HYDROGEN BOND AND STRETCHING EFFECT (Author - Quanwen Liao)
11:15 AM				18437 – A Preliminary Framework for Modelling Polycrystalline Metal Processing Using Ultrafast Pulsed Laser (Author - Xu Mao)
9:15 AM	W.12	IWHT Multiphase heat/mass transfer Chair: Wen Tao Ji	Tropical F	18083 – Numerical Study on the Characteristics of Immiscible Displacement in a Partial Porous Channel using the Lattice Boltzmann Method (Author - Liang Gong)
9:33 AM				18041 – Droplet impact behavior on micro-structured surface from boiling temperature to Leidenfrost temperature (Author - Ho Seon Ahn)
10:15 AM				17400 – Analysis of UCB-Kuhn Condensation Tests by MARS-KS Code (Author - Ju Yeop Park)
10:33 AM				18650 – Analysis of Film Condensation Air-cooled Heat Exchangers with Non-Circular Plain Tubes (Author - Kaipoo Kekaula)
11:15 AM				18541 – Pool boiling heat transfer of R134a outside reentrant cavity tubes at higher heat flux (Author - Wentao Ji)
10:45 AM - 11:00 AM		Refreshment Break	Hallway	

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
WEDNESDAY, APRIL 5, 2017				
11:00 AM	W.13	TFEC Computational Methods/Tools in Thermal-Fluid Systems - Applications in Heat Transfer I Chair: Darrell Pepper Co-Chair: Matthias Hoefler	Tropical A	17793 – Development of a transient simulation model for a shell-and-tube heat exchanger (Author - Matthias Hoefler)
11:18 AM				18416 – THE STUDY ON THE EFFECT OF OFFSET FLOW CONTROL IN WAVY FIN HEAT EXCHANGER (Author - Gwang Hoon Rhee)
11:36 AM				18116 – Thermal-Hydraulic Performance of Aluminum Foam Heat Exchangers with Varying Cellular Lattice Structures (Author - Edward Kraft)
11:54 AM				18548 – ENHANCEMENT OF HEAT OUTPUT OF PANEL RADIATORS USING NUMERICAL TECHNIQUES (Author - Tamer Calisir)
12:12 PM				
11:00 AM	W.14	TFEC Fundamental Fluid Flow and Heat Transfer - Heat Transfer in Nanofluids I Chair: Roy Hogan Co-Chair: David Nobes	Coco B	18388 – Investigation of bubbles passing through a mini-slot using particle shadow velocimetry (Author - David Nobes)
11:18 AM				17708 – Self-Cleaning Properties on Superhydrophobic Surfaces via Condensation (Author - David Miller)
11:36 AM				17510 – Molecular Dynamics Study of Contact Angle Effect on Maximum Critical Heat Flux in Nano-Patterned Pool Boiling (Author - Zhixiong Guo)
11:54 AM				17562 – NUMERICAL MODELLING OF TWO-PHASE RECIPROCATING FLOW USING A VIRTUAL LOOP (Author - Olubunmi Popoola)
12:12 PM				
11:00 AM	W.15	TFEC Industrial and Commercial Processes - Air-cooled Systems Chair: James Y. Hartley Co-Chair: In-Cheol Chu	Lambda A	17332 – Heat Transfer and Pressure Drop Characteristics of Air Cooled Finned Tube Heat Exchanger (Author - In-Cheol Chu)
11:18 AM				17322 – Design of High Efficiency Aggregate Air Cooling System (Author - Malik Alamayreh presented by Tareq Barham)
11:36 AM				17571 – Experimental Evaluation of Jet Impingement Cooling for Application in Power Plants Condensers (Author - Abdulmohsen Alsaiani)
11:54 AM				17422 – Cooling of Data Centers with Variation in Load and Environmental Conditions (Author - Yogesh Jaluria)
12:12 PM				17425 – HEAT TRANSFER AND PRESSURE DROP MECHANISMS IN WAVY FINS HAVING ONE, TWO, THREE AND FOUR ROWS OF ROUND TUBES. (Author - Ruben Borrajo)
11:00 AM	W.16	TFEC Electric, Magnetic, Flow and Thermal Phenomena in Micro and Nano-Scale Systems Chair: Alex Rattner Co-Chair: William Yorgason	Lambda B	19680 – Improvement of Thermoelectric Properties through Reduction of Thermal Conductivity by Nanoparticle Addition and Stoichiometric Change to Mg ₂ Si (Author - William Yorgason)
11:18 AM				18418 – Measurements of Heat Generation Rate in Nanoporous Pseudocapacitive Electrodes (Author - Laurent Pilon)
11:36 AM				17968 – Nanostructured surface significantly alters droplet dynamics and freezing behavior (Author - Rachel Bohm)
11:54 AM				17669 – A Computational Study of the Effect of Magnetic Field on Heat Transfer in Ferrofluid Flow in a Circular Tube (Author - Partha Ghoshdastidar)
12:12 PM				18360 – Enhancing the Heat Transfer Characteristics of Liquid Desiccants with Nanoparticles (Author - Qazi Talal)
11:00 AM	W.17	TFEC Energy and Sustainability 7 Chair: Ehsan Languri Co-Chair: Yu Qiu	Lambda C	17576 – OPTICAL PERFORMANCE ANALYSIS OF A POROUS OPEN VOLUMETRIC AIR RECEIVER IN A SOLAR POWER TOWER (Author - Yu Qiu)
11:18 AM				17412 – Passive directional daytime radiative cooling system (Author - Bikram Bhatia)
11:36 AM				18395 – Thermal efficiency and pressure drop analysis of a liquid sodium receiver (Author - Tim Conroy)
11:54 AM				17756 – Transient heat transfer analysis in a fluidized bed of metal oxide particles undergoing solar thermochemical reduction (Author - Wojciech Lipinski)
12:12 PM				17713 – Modelling of advanced combined heat and power systems in building applications (Author - Maria-Anna Chatzopoulou)

Time	No.	Conf. , Session Name, Chair, Co-Chair	Room	Title, Author
WEDNESDAY, APRIL 5, 2017				
11:00 AM	W.18	TFEC Two phase flow 2 - Two phase flows and convection I Chair: Liang Gong Co-Chair: Xi Chen	Conga A	18458 – Two-phase flow pressure drop in circular channel with abrupt contraction and expansion (Author - Clement Tang)
11:18 AM				17336 – Adiabatic Air-water Upflow in a Large Diameter Pipe: Experiments vs. CFD (Author - Kevin Farrell)
11:36 AM				17655 – Two phase flow regime maps in microgaps and pin-fin arrays for enhanced heat exchanger design (Author - Alex Rattner)
11:54 AM				17722 – Three dimensional numerical simulation of a bubble rising in viscous liquid using OpenFOAM (Author - Ankit Verma)
12:12 PM				18254 – Experimental study on void fraction of ECCS two-phase flow (Author - Guojun Yu)
11:00 AM	W.19	IWHT CFD and numerical heat/mass transfer Chair: Min Zeng	Conga B	18365 – A NUMERICAL STUDY OF FLOW AND HEAT TRANSFER IN WEDGED CORRUGATED PLATE CHANNELS (Author - Pey-Shey Wu)
11:18 AM				18206 – WIND FLOW PREDICTIONS AROUND BUILDINGS HAVING SEMI-OPEN SPACES IN URBAN CANYONS (Author - An-Shik Yang)
11:36 AM				18219 – PREDICTIONS OF LOAD CAPACITY IN THERMO-HYDRODYNAMIC LUBRICATION PROCESS FOR HERRINGBONE GROOVE BEARINGS (Author - An-Shik Yang)
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Singh	Harpreet	18180	T.21	Tam	Hou Kuan	17541	T.24
Singh	Pawan	18075	W.22	Tam	Lap Mou	17541	T.24
Singh	Shailendra Pratap	18375	M.2	Tan	He-Ping	18359	M.30
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Tang	Clement	18458	W.18	Waghmare	Prashant	18387	T.27
Tang	Guihua	19523	T.33	Waghmare	Prashant	18389	W.3
Tang	Shuai	18414	T.12	Wagner	Timothy	17767	M.4
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Tao	Wen-Quan	17893	T.12	Walunj	Avdhoot	17538	T.22
Tao	Wen-Quan	17991	M.16	Wang	Chao	18409	M.7
Tao	Wen-Quan	18069	W.8	Wang	Cheng-Hao	18002	M.19
Tao	Wen-Quan	18394	W.20	Wang	Chi-Chuan	18002	M.19
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Tao	Wenquan	17603	W.20	Wang	Hong	18566	T.8
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Teixeira	Jose	18128	M.6	Wang	Jie	17736	T.12
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Termentzidis	Konstantinos	17667	M.17	Wang	Jing	18068	M.33
Terzis	Alexandros	18562	M.36	Wang	Jingtao	17584	M.27
Tewolde	Mahder	17776	M.35	Wang	Jingtao	17596	M.27
Thaker	Jignesh	18573	T.6	Wang	Jun	18343	W.4
Thaker	Jignesh	18573	T.6	Wang	Junfang	18097	T.8
Than	Yatming (Roberto)	17964	M.31	Wang	Kun	17795	T.20
Thiel	Gregory	17711	M.11	Wang	Kunfang	18337	M.35
Thomas	Brian	17663	T.4	Wang	Liang-Bi	17645	T.9
Thome	John R.	19674	M.9	Wang	Liang-Bi	17649	W.10
Thu	Kyaw	18467	T.20	Wang	Liang-Bi	17671	T.8
Tian	Jiameng	17326	T.9	Wang	Peng	18102	T.8
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Ting	Wu	18293	T.27	Wang	Qian	19449	M.8
Titaev	Alexander	17545	M.18	Wang	Qiuwang	17386	M.31
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Tong	Zi-Xiang	18399	T.11	Wang	Qiuwang	17736	T.12
Toubassy	Joseph	18363	M.6	Wang	Qiuwang	17969	M.41
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Tran Le	Anh Dung	17650	M.21	Wang	Shuang	17583	M.31
Trieling	Ruben	17677	M.35	Wang	Tianmi	19523	T.33
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Urquiza	Gustavo	18147	M.11	Wang	Xiaoxiao	18589	T.24
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Vafaei	Saeid	17535	W.11	Wang	Yabo	17769	M.11
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Varghese	Stephen	17677	M.35	Wei	Jinjia	17390	T.9
Vatani	Ashkan	18889	W.5	Wei	Jinjia	17523	T.9
Verma	Ankit	17722	W.18	Wei	Jinjia	17537	T.27
Vick	Brian	18092	M.26	Wei	Jinjia	18818	M.19
Vijayalakshmi	A	17100	M.5	Wei	Xiaolan	17782	M.40
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Xi	Huan	17795	T.20	Yang	Chun	18864	M.17
Xi	Zhao	18259	M.25	Yang	Jian	17386	M.31
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Xiao	Peng	18811	M.30	Yang	Yunxiao	17984	T.12
Xiaohui	Zhang	18027	T.26	Yang	Xing	17550	W.8
Xie	Feng	18259	M.25	Yap	Y.F.	18095	M.40
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Zhang	Li-Zhi	17855	M.16	Zhou	Jing	18343	W.4
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Zhang	Xin	17661	M.29	Zhu	Jia	18027	T.26
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