



ASTFE

American Society of Thermal and Fluids Engineers

2nd Thermal and Fluids Engineering Conference

4th International Workshop on Heat Transfer

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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	A Tribute to an Exceptional Life: D. Brian Spalding (Author Akshai Runchal)
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	17451 – Natural Convective Heat Transfer from Two Thin Vertically Spaced Axially
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: Narcisha 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	Lambada 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	Lambada 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	Lambada 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-sacle 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 Sili-ca 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-FINNEDED 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 - Gedydy 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	Lambada 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 Alsaieri)
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	Lambada 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	Lambada 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)
11:54 AM				18091 – Numerical Simulation on Aero-heating of Blunt-nosed Body With Porous Spike (Author - Zhenhuan Li)
12:12 PM				17983 – Numerical investigation of effect of helix on high-speed steam condensation in square/circular channels (Author - Min Zeng)
11:00 AM	W.20	IWHT Energy conservation and storage techniques Chair: Xili Duan	Conga C	18394 – Economic analysis of vanadium redox-flow battery for energy storage in commercial applications (Author - Ming-Jia Li)
11:18 AM				18280 – Solidification of PCM in Triplex-Tube Thermal Energy Storage System using Fins and Nanoparticles Enhancement (Author - Emmanuel Nsofor)
11:36 AM				17936 – Numerical Study of Nanoparticle Enhanced Heat Transfer in a Solar Thermal Energy Storage Unit (Author - Xili Duan)
11:54 AM				17603 – Life cycle assessment of a grid-connected wind power system based on the configuration optimization (Author - Jin Xu)
12:12 PM				
11:00 AM	W.21	IWHT Heat/mass transfer in porous media Chair: Terrence Simon Co-Chair: Mahmood Alqefi	Coco A	17740 – Influence of Porosity on Spherical Hollow Aluminum Element Cell Attenuation Characteristics (Author - Haochun Zhang)
11:18 AM				17911 – Oscillatory flow regenerative heat exchangers for application to energy storage systems (Author - Terrence Simon)
11:36 AM				18112 – Experimental investigation of biomimetic self-pumping transpiration cooling (Author - Gan Huang)
11:54 AM				18012 – Rapid Generation Mechanism of Superheated Steam using a Water Containing Porous Material (Author - Shoji Mori)
12:12 PM				18295 – NITRATE TRANSPORT CHARACTERISTICS IN THE GROUNDWATER WITH PREFERENTIAL FLOW (Author - Jing Ding)
11:00 AM	W.22	IWHT Micro/Nano Heat/Mass Transfer Chair: Zeng-Yao Li	Tropical B	17625 – SHALE GAS TRANSPORT IN NANOPORES COUPLED WITH REAL GAS EFFECT AND SURFACE DIFFUSION (Author - Ying Yin)
11:18 AM				17610 – HEAT CONDUCTION THROUGH TWO CONTACTED SILICA NANOSPHERES (Author - Chuan-Yong Zhu)
11:36 AM				17986 – Optimizing titanium oxide nanofluid for dye-sensitized solar cells (Author - Kazuhiro Manseki)
11:54 AM				18075 – FLOW AND HEAT TRANSFER OF NANOFLUIDS IN WAVY MICROCHANNEL (Author - Pawan Singh)
12:12 PM				
12:30 PM		CLOSING CEREMONY	Palma Ballroom	

AUTHOR INDEX

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Abdelmotalib	Hamada	17592	M.42	Barnes	Arden	19680	W.16
Abir	Ahmed	18114	M.22	Bassila	Joseph	18363	M.6
Abu Shaban	Nabeel	17322	W.15	Basu	Debashis	18838	T.13
Abu-Khamsin	Sidqi A.	17616	M.16	Basu	Debashis	18839	W.3
Adam	Carlton	18638	M.36	Basu	Debashis	18840	W.3
Adee	Shane	18058	W.2	Battaglia	Francine	17901	M.1
Aguilar-Castro	Karla	17938	M.32	Battaglia	Francine	17966	T.19
Ahn	Ho Seon	18041	W.12	Baudin	Nicolas	18339	T.17
Ahn	Joon	19652	T.23	Baudin	Nicolas	18342	T.2
Ai	Qing	18091	W.19	Bayon	Alicia	17757	T.19
Al-Zamily	Ali	17374	T.29	Bayon	Alicia	17758	W.7
Alamayreh	Malik	17322	W.15	Bayrakceken	Abdulkadir	18487	M.24
Alangar	Sathyabhama	17538	T.22	Beckwith	Jenna	17413	W.7
Alanis	Jaime	18147	M.11	Beji	Hassen	17409	M.13
Alcaraz	Alejandro	17706	T.28	Bellan	Leon	17661	M.29
Alimohammadi	Sajad	18339	T.17	Bello	Renato	18462	W.9
Alimohammadi	Sajad	18342	T.2	Belmonte	Juan F.	17612	M.33
Almendros-Ibáñez	José A.	17612	M.33	Bermeo	Leonardo	18460	W.5
Alqefi	Mahmood H.	18417	T.14	Betz	Amy	17968	W.16
Alsaiari	Abdulmohsen	17571	W.15	Betz	Amy	18281	T.7
Alvarado	Jorge	17511	T.18	Betz	Amy Rachel	17720	T.7
Alvarado	Jorge	17690	M.38	Bhargava	Rama	17752	W.2
Alviso	Dario	18462	W.9	Bhatia	Bikram	17412	W.17
Amano	Ryo	18626	T.15	Bhavnani	Sushil	17689	M.27
Amaya-Bower	Luz	17438	M.37	Bian	Jiawei	18254	W.18
Amedome Min-Dianey	Kossi-Aniya	17740	W.21	Bigi	Andrea	17456	T.6
An	Dong Hyun	18996	M.41	Binama	Maxime	18188	M.3
An	Dongyang	18811	M.30	Blecker	Ken	18640	M.15
An	Xudong	17482	M.26	Blommaert	Maarten	18440	W.9
Anand	Sushant	18056	W.11	Bodaghkhani	Armin	17355	W.3
Anderson	Kevin	17423	M.36	Boetcher	Sandra	17413	W.7
Ansari	Shadi	18389	W.3	Bohm	Rachel	17968	W.16
Ansari	Shadi	18390	T.15	Bolyukh	Vladimir F.	17478	T.31
Antao	Dion	18687	M.17	Bolyukh	Vladimir F.	17397	M.32
Arbeiter	Frederik	17408	M.10	Bonner	Richard	16865	M.42
Arora	Manish	17482	M.26	Bonner	Richard	17016	M.21
Artemenko	Sergey	18148	T.3	Borrajo	Ruben	17425	W.15
Ashraf	Bilal	18195	M.26	Botello-Alvarez	Enrique	17706	T.28
Aslannejad	Hamed	18562	M.36	Branco	Vera	17997	W.1
B Nair	Ashish	18017	M.41	Branislav	Basara	17673	W.3
Bader	Roman	17756	W.17	Brantley	William C.	17482	M.26
Bader	Roman	17758	W.7	Braun	Minel.j	17674	T.1
Bae	Hyeng Sub	18168	W.10	Brekke	Nicholas	18459	T.33
Baelmans	Martine	18440	W.9	Brekke	Nicholas	18463	T.33
Bahadur	Vaibhav	17806	W.6	Breuille	Tristan	17756	W.17
Bahadur	Vaibhav	17808	M.12	Brinkerhoff	Joshua	17389	T.28
Bahaidarah	Haitham	18360	W.16	Brown	Alexander	17709	M.8
Bailie	S. Todd	17402	T.28	Brown	Alexander	17710	T.18
Baldauff	Robert	17513	W.2	Brown	Alexander L.	17668	M.8
Baldygin	Aleksey	18387	T.27	Bu	Shanshan	17736	T.12
Bamgbade	Ayobami	17562	W.14	Bulasara	Vijaya Kumar	17620	M.23
Bamorovat Abadi	Gholamreza	18370	M.25	Butcher	Tom	17767	M.4
Bandhauer	Todd	18302	W.6	Buttsworth	David	18332	M.4
Bandhauer	Todd	18345	W.6	Buyadgie	Dmytro	18146	T.30
Banerjee	Jyotirmay	18573	T.6	Buyadgie	Olexiy	18146	T.30
Banerjee	Jyotirmay	18573	T.6	Buyadgie	Olexiy	18148	T.3
Bang	Young Seok	17400	W.12	Córcoles Tendero	Juan I.	17612	M.33
Baozhi	Sun	17579	T.10	Cai	Lei	18097	T.8
Bardy	Erik	17815	T.28	Calderón	Mario	17706	T.28
Barham	Tareq	17322	W.15	Calderón-Muñoz	Williams	18648	W.10

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Calderón-Muñoz	Williams R.	18557	M.39	Chen	Xue	18110	M.12
Cameron	Katie	18385	T.25	Chen	Xuexi	18379	M.20
Cao	Yiding	17562	W.14	Chen	Yaqiong	18589	T.24
Caraballo	Edgar	17681	T.31	Chen	Ying	17621	T.2
Carrilho	Leo	18114	M.22	Chen	Yitung	17969	M.41
Carrington	David	17471	M.20	Chen	Yitung	18650	W.12
Cemgil	Taylan Ali	18039	W.13	Chen	Yongping	18409	M.7
Cervates	Manuel	17514	M.1	Chen	Yunfei	17661	M.29
Chahal	Sandeep	18007	M.13	Cheng	Chiang-Ho	18206	W.19
Chai	John	18083	W.12	Cheng	Chiang-Ho	18386	W.5
Chai	John	18095	M.40	Cheng	Chin-Hsiang	19202	T.20
Chakrabarti	Sidharth	18375	M.2	Cheng	Chin-Hsiang	19203	T.20
Chakraborty	Nilanjan	17509	M.34	Cheng	Funing	17983	W.19
Chamchine	Andrei	18146	T.30	Cheng	Ze-Dong	17576	W.17
Chan	Cho Lik	17151	T.26	Cheong	Ae Ju	19684	T.4
Chandy	Abhilash	18457	M.4	Cho	Hyung-Kyu	18831	T.31
Chandy	Abhilash J.	17674	T.1	Cho	Hyung-Hee	18167	T.22
Chang	Siang-Yee	17570	T.29	Cho	Hyung-Hee	18168	W.10
Chang	Young Soo	17574	M.23	Cho	Keumnam	18081	M.7
Chang	Yu-Hao	18219	W.19	Cho	Seok	18008	T.10
Chao	Ling-Yu	18317	M.11	Choi	Cheong Ryeol	17332	W.15
Charogiannis	Alexandros	17771	T.18	Choi	Dae Kyung	17332	W.15
Chatterjee	Rukmava	18056	W.11	Choi	Geehong	18167	T.22
Chatzopoulou	Maria-Anna	17713	W.17	Choi	Hae Seob	18008	T.10
Chavez-Servin	Jorge	17938	M.32	Choi	Kwang-Il	17775	T.7
Chekifi	Tawfiq	17524	T.21	Chong	Daotong	17518	M.21
Chen	Bin	17326	T.9	Chong	Daotong	17549	T.7
Chen	Chien-Hua	16865	M.42	Chow	Nadia C.I.	18273	M.13
Chen	Chih-Yao	18442	T.14	Chow	W.k.	18273	M.13
Chen	Hanfei	17672	W.6	Chu	In-Cheol	17332	W.15
Chen	Hao	19695	M.32	Chuah	Yew Khoy	18349	M.6
Chen	Jiannan	18110	M.12	Chudnovsky	Daria	18568	T.30
Chen	Jianyong	17621	T.2	Chudnovsky	Yaroslav	17767	M.4
Chen	Kai	18137	M.33	Chung	Heeyoon	18168	W.10
Chen	Kuo-Huey	18556	T.28	Chung	Moon-Sun	18918	M.13
Chen	Lei	17638	T.21	Clodic	Denis	18363	M.6
Chen	Li	17991	M.16	Clodic	Denis	18372	M.41
Chen	Lingen	18308	M.10	Coker	Eric	18058	W.2
Chen	Lingen	18309	M.22	Colaço	Marcelo	18060	M.35
Chen	Lingen	18310	M.3	Colbourne	Bruce	17355	W.3
Chen	Lingen	18311	M.10	Coletti	Francesco	19919	M.35
Chen	Lingen	18312	T.1	Collins	Maurice	17411	W.17
Chen	Lingen	18313	T.27	Collins	Maurice	18395	W.17
Chen	Lingen	18314	W.4	Cong	Tenglong	18209	T.8
Chen	Lingen	18315	M.10	Conroy	Tim	17411	W.17
Chen	Lu	17901	M.1	Conroy	Tim	18395	W.17
Chen	Min	18407	T.6	Costa	Mário	17997	W.1
Chen	Qi	17643	T.32	Cowley	Adam	17481	M.38
Chen	Quan-Hui	19203	T.20	Cremaschi	Lorenzo	17456	T.6
Chen	Ronghua	18204	T.32	Crockett	Julie	17366	M.38
Chen	Shi	18320	M.4	Crockett	Julie	17481	M.38
Chen	Shi	18589	T.24	Crockett	Julie	17708	W.14
Chen	Weixiong	17518	M.21	Crockett	Julie	18117	M.14
Chen	Weixiong	17549	T.7	Cui	Cong	17613	M.34
Chen	Xi	17691	T.7	Cui	Zhiguang	17570	T.29
Chen	Xi	18281	T.7	Cunningham	Glenn	17705	T.4
Chen	Xi	18394	W.20	Cwiok	Kevin	17413	W.7
Chen	Xia	18293	T.27	Dahariya	Smreeti	17720	T.7
Chen	Xia	18521	T.11	Dahiya	Anurag	18180	T.21
				Dai	Baomin	17769	M.11

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Dai	Jingmin	18811	M.30	Elíabe	Guillermo	18460	W.5
Dai	Renkun	17983	W.19	Emery	Ashley	17670	T.31
Dai	Zan-En	17740	W.21	Enayati	Hooman	17674	T.1
Dale	John	18459	T.33	Enoki	Koji	18154	M.28
Dale	John	18463	T.33	Ericok	Ozan Burak	18039	W.13
Danlos	Amelie	18372	M.41	Erturk	Hakan	18039	W.13
Das	Arka	18781	T.25	Estumano	Diego	18060	M.35
Das	Kaushik	18838	T.13	Fakheri	Ahmad	17554	W.8
Das	Kaushik	18839	W.3	Fakheri	Ahmad	17733	M.22
Das	Kaushik	18840	W.3	Fakheri	Ahmad	18190	T.5
Das	Malay	17525	M.31	Fan	Aoran	17988	T.21
Das	Malay Kumar	17722	W.18	Fang	Lichao	18094	T.11
Das	Nitesh	17369	M.12	Fang	Xiaoming	18381	M.37
Das	Prashanta	18375	M.2	Fang	Yuan	17549	T.7
Das	Saritkumar	17994	M.14	Fanning	Tate	17566	T.13
Das	Saritkumar	18929	M.5	Farrell	Kevin	17336	W.18
Daval	Mathias	18496	T.19	Feng	Dudong	17424	W.2
De La Torre-Carbot	Karina	17938	M.32	Feng	Huijun	18311	M.10
De Lemos	Marcelo	18449	W.4	Feng	Zhenping	17934	T.32
De Lemos	Marcelo	18450	W.4	Feng	Zhenping	17550	W.8
Decampoli	William	18781	T.25	Fisher	Timothy S.	19679	T.30
Deguchi	Yoshihiro	17716	W.1	Foroushani	Sepehr	17157	M.32
Dejarnette	Drew	18459	T.33	Foroushani	Sepehr	17365	M.3
Demers	Aaron	17517	T.1	Forsberg	Chris	17389	T.28
Deng	Shuai	18822	T.24	Francoeur	Mathieu	17558	M.18
Deng	Shuai	18827	T.20	Francoeur	Mathieu	17818	M.18
Deng	Yajun	18073	T.10	Freed	Darren	18385	T.25
Dennai	Brahim	17524	T.21	Freeman	Thomas	17413	W.7
Denner	Fabian	17771	T.18	Freppel	Wirich	17650	M.21
Deokar	Pratik	17456	T.6	Fronk	Brian	19596	T.16
Derby	Melanie	17691	T.7	Fu	Qian	19695	M.32
Derby	Melanie	18281	T.7	Fuqua	Juliana	19597	T.5
Desai	Nishith	17903	M.24	Gómez-Naftè	Jesus	17706	T.28
Descombes	Georges	18363	M.6	Gabor	Kelly	18457	M.4
Descombes	Georges	18372	M.41	Gampp	Lukas	17756	W.17
Desutter	John	17818	M.18	Gan	Yong	17423	M.36
Di	Zhang	17774	M.27	Gandhidasan	Palanichamy	18360	W.16
Diaz	Ricardo	17510	W.14	Gangacharyulu	D.	17620	M.23
Ding	Jing	17782	M.40	Ganguly	Rangan	18452	T.27
Ding	Jing	18295	W.21	Gao	Qiang	18343	W.4
Ding	Zemin	18310	M.3	Gao	Tao	17743	M.16
Diriken	Jan	18440	W.9	Gao	Xuan	18061	T.22
Divo	Eduardo	17783	T.14	Gao	Xuenong	18381	M.37
Divo	Eduardo	18781	T.25	Garland	Shane	18302	W.6
Dong	Cheng	18037	M.17	Garrick	Sean	17744	T.26
Dong	Yuhong	18414	T.12	Ge	Yanlin	18308	M.10
Dongyin	Wu	17549	T.7	Ge	Yanlin	18309	M.22
Doughramaji	Nicole	18281	T.7	Ge	Yanlin	18310	M.3
Douzane	Omar	17650	M.21	Ge	Yanlin	18311	M.10
Drakhnia	Oleksii	18146	T.30	Ge	Yanlin	18312	T.1
Draper	Chris	17423	M.36	Ge	Yanlin	18313	T.27
Du	Chunxu	18521	T.11	Ge	Yanlin	18314	W.4
Du	Mu	19523	T.33	Ge	Yanlin	18315	M.10
Duan	Xili	17613	M.34	Ge	Yu	17423	M.36
Duan	Xili	17617	T.12	Gediz Ilis	Gamze	18033	M.23
Duan	Xili	17936	W.20	Gedupudi	Sateesh	17994	M.14
Dubal	Mark	17512	M.1	Gedupudi	Sateesh	18929	M.5
Dutta	Rabijit	18330	M.37	Gelis	Kadir	18487	M.24
Eckels	Steven	18318	M.11	George	Pradeep	18443	T.4
Edalatpour	Sheila	17558	M.18	Gerardo-Bravo	Michael	17706	T.28

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Gerboth	Matthew	17555	M.29	Hassanizadeh	Majid	18562	M.36
Ghaemi	Sina	18390	T.15	Haussener	Sophia	17756	W.17
Ghahremani	Amir Hossein	17908	T.11	Havet	Michel	17815	T.28
Ghajar	Afshin J.	17541	T.24	Havtun	Hans	17621	T.2
Ghanekar	Alok	18707	T.3	He	Honbing	18298	M.14
Ghannam	Boutros	17547	M.27	He	Pu	17991	M.16
Ghods	Reza	17438	M.37	He	Sida	18414	T.12
Ghosh	Indranil	18375	M.2	He	Tao	17767	M.4
Ghoshdastidar	Partha	17669	W.16	He	Ya-Ling	17576	W.17
Ghoshdastidar	Partha	17676	M.20	He	Ya-Ling	17638	T.21
Gianello	Melissa	17412	W.17	He	Ya-Ling	17795	T.20
Gigineishvili	Giorgi	18815	T.10	He	Ya-Ling	18399	T.11
Golden	Chris	17535	W.11	Henry	Asegun	18989	M.13
Goldstein	Richard J.	18348	M.10	Henry	Asegun	18990	M.36
Gollahalli	S. R.	17963	M.1	Henry	Asegun	18991	M.29
Gong	Liang	18083	W.12	Henry	Michael	17689	M.27
González Bayón	Juan José	17425	W.15	Hermes	Christian	17681	T.31
Gorbunov	Andrei	18604	M.39	Herrmann-Priesnitz	Benjamin	18648	W.10
Gorrell	Steven	17566	T.13	Hidaka	Sumitomo	18298	M.14
Goshayeshi	Hamid Reza	17908	T.11	Hill	Justin	18007	M.13
Goyal	Mania	17752	W.2	Hinkley	James	17758	W.7
Goyal	Rangoli	17752	W.2	Hirata	Ryo	18154	M.28
Gradeck	Michel	17667	M.17	Hitimana	Emmanuel	18121	M.20
Green	Christy	18125	M.24	Hoang	Triem	17513	W.2
Grimes	Ronan	17411	W.17	Hodes	Marc	17556	T.17
Grimes	Ronan	18340	T.15	Hoefler	Matthias	17793	W.13
Grimes	Ronan	18395	W.17	Hoenig	Sean	16865	M.42
Grossman	Gershon	17120	T.32	Hoffmeister	Kathryn	18058	W.2
Gu	Youwei	18407	T.6	Hong	Jiarong	18269	T.23
Guanglei	Yu	17608	T.32	Hong	Seung Hyun	17900	W.7
Guessous	Laila	17517	T.1	Hong	Seunghyun	18008	T.10
Guessous	Laila	17723	M.24	Hossain	M. Enamul	17616	M.16
Guo	Heng	17609	W.5	Hu	Dezhi	18379	M.20
Guo	Kailun	18204	T.32	Hu	Hui	18453	M.20
Guo	Xiangji	17978	M.22	Hu	Hui	18456	M.24
Guo	Xiaoman	18811	M.30	Hu	Yiran	18337	M.35
Guo	Zhixiong	17510	W.14	Huang	Dingbin	17638	T.21
Guo	Zhixiong	18796	T.30	Huang	Gan	18112	W.21
Gupta	Ajay	18106	W.1	Huang	Jun	18988	M.14
Gupta	Himanshu	17686	M.19	Huang	Qiyu	18094	T.11
Gutierrez Urueta	Gedydy	18493	M.41	Huang	Shanbo	18083	W.12
Ha	Jonghyun	17362	W.7	Huang	Wei	17482	M.26
Habermehl	Martin	17793	W.13	Huang	Xing	18269	T.23
Hadfield	Jake	18384	T.15	Huang	Xing	18270	M.18
Hadim	Hamid	18638	M.36	Huang	Xing	18359	M.30
Hadim	Hamid	18640	M.15	Huang	Yanping	18515	M.15
Hamed	Haikel	17409	M.13	Huang	Yun	19695	M.32
Hamza	Amar	17554	W.8	Hughes	Joshua	19682	M.9
Han	Dongxu	18097	T.8	Hwang	David	17776	M.35
Han	Huaizhi	18337	M.35	Ibaceta	Josefa	18557	M.39
Han	Taeyoung	17214	W.4	Im	Ik-Tae	17592	M.42
Han	Taeyoung	17297	T.11	Im	Kihak	18831	T.31
Han	Taeyoung	18556	T.28	Isaiev	Mykola	17667	M.17
Han	Zhimin	17584	M.27	Issakhov	Alibek	17591	T.17
Hardick	Sean	17767	M.4	Iverson	Brian	17481	M.38
Harikumar	Parameswar	18459	T.33	Iverson	Brian	17708	W.14
Harikumar	Parameswar	18463	T.33	Iverson	Brian D.	17366	M.38
Harris	Michael	17783	T.14	Iyer	Akshay	17424	W.2
Hasan	Mohammed	18839	W.3	J	Prasanna	17994	M.14
Hasan	Mohammed	18840	W.3	Jafarani	Raheel	18056	W.11
Hassanipour	Fatemeh	17482	M.26	Jagadeeshwar	P	18143	M.26

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Jaluria	Yogesh	17422	W.15	Khalighi	Bahram	18556	T.28
Jaluria	Yogesh	18443	T.4	Khalil	Carlos	18060	M.35
Jameson	Kevin	18058	W.2	Khan	Jamil	18114	M.22
Jara-Bravo	Cristian	18557	M.39	Khan	Sameera	18056	W.11
Jayaramu	Prasanna	18929	M.5	Khanafer	Khalil	17979	T.3
Jelle	Bjørn Petter	17743	M.16	Khelfaoui	Rachid	17524	T.21
Jeon	Woo Jin	17332	W.15	Khinkis	Mark	18111	W.1
Ji	Pengfei	17459	M.17	Khoury	Anthony	18781	T.25
Ji	Wentao	17552	T.24	Kiaee	Amir	18504	T.3
Ji	Wentao	18541	W.12	Kim	Beom Seok	18167	T.22
Jia	G.s.	18095	M.40	Kim	Chan Soo	18996	M.41
Jia	Li	17984	T.12	Kim	Chiwon	19088	T.16
Jia	Li	17985	M.7	Kim	Eung Seon	18996	M.41
Jiang	Mengnan	18324	T.19	Kim	Geon-Woo	18831	T.31
Jiang	Pei-Xue	18112	W.21	Kim	Gun Woo	18415	T.14
Jiang	Pei-Xue	18130	M.28	Kim	Gun Woo	18416	W.13
Jiang	Pei-Xue	18137	M.33	Kim	Hisuk	19089	W.10
Jiang	Peixue	18110	M.12	Kim	Ho-Young	17574	M.23
Jiang	Peixue	18131	M.29	Kim	Hwan Yeol	17659	M.38
Jiang	Peixue	18138	T.23	Kim	Jinsub	17639	M.25
Jiang	Wei	17609	W.5	Kim	Jinsub	17659	M.38
Jiang	Yu	19006	M.23	Kim	Jong Rok	17900	W.7
Jin	Kai	17663	T.4	Kim	Jongrok	18008	T.10
Jin	L.W.	18095	M.40	Kim	Joonoh	17574	M.23
Jin	Puhang	17552	T.24	Kim	Jung-Han	19090	T.16
Jin	Zi-Cheng	18068	M.33	Kim	Kyeongho	18765	M.40
Jing	Dengwei	18015	W.11	Kim	Kyoungjin	17368	T.13
John	Anish K.	18017	M.41	Kim	Kyung Chun	18370	M.25
Jones	Morgan	17517	T.1	Kim	Min Soo	17592	M.42
Joshi	Prathamesh	17804	T.9	Kim	Minsoo	18081	M.7
Joshi	Prathamesh	18145	M.21	Kim	Moo Hwan	18047	T.21
Juan	Yu-Hsuan	18206	W.19	Kim	Seon Ho	18168	W.10
Juan	Yu-Hsuan	18219	W.19	Kim	Sung-Min	18232	W.7
Jun	Seongchul	17639	M.25	Kim	Tong Kyun	18047	T.21
Jun	Seongchul	17659	M.38	Kim	Yong	18417	T.14
K	Krishnakumar	18017	M.41	Kim	Youn-Jea	17597	T.1
Kachhwaha	Surendra	17903	M.24	Kim	Youn-Jea	18232	W.7
Kaiser	Benedikt	17408	M.10	Kimber	Mark	18116	W.13
Kalensky	David	18111	W.1	Kinzel	Edward	17968	W.16
Kalliadasis	Serafim	17771	T.18	Klaus	Philip	18556	T.28
Kamble	Dhanapal	18150	T.30	Kneer	Reinhold	17793	W.13
Kamimoro	Takahiro	17716	W.1	Knight	Roy	17689	M.27
Kang	Ji-Yun	18232	W.7	Kohno	Masamichi	17369	M.12
Kang	Jun-Young	18047	T.21	Kohno	Masamichi	18298	M.14
Kanjirakat	Anoop	17511	T.18	Kong	Lei	18496	T.19
Karamanis	Georgios	17556	T.17	Kordas	Olga	17605	T.33
Karng	Sarng Woo	18765	M.40	Kore	Sandeep	17804	T.9
Kassab	Alain	17783	T.14	Kore	Sandeep	18145	M.21
Kassab	Alain	18781	T.25	Korotunov	Sergiy	18225	M.33
Katkov	Igor	17397	M.32	Koukoravas	Theodore	18452	T.27
Katkov	Igor	17478	T.31	Kozlov	Aleksandr	18111	W.1
Kaushik	Shailendra	17297	T.11	Kraft	Edward	18116	W.13
Ke	Yang	17774	M.27	Krajnovic	Sinisa	17673	W.3
Kekaula	Kaipo	18650	W.12	Kryukova	Natalya V.	17478	T.31
Kempers	Roger	18339	T.17	Kuan	Yean-Der	18442	T.14
Kennedy	John	17554	W.8	Kukulka	David	18523	T.22
Kerdsuwan	Somrat	18010	M.1	Kundu	Arpan	19679	T.30
Keryakos	Elie	18372	M.41	Kurita	Jorge	17745	W.1
Khalighi	Bahram	17214	W.4	Kurita	Jorge	18462	W.9
Khalighi	Bahram	17297	T.11	Kwon	Tae Soon	17332	W.15

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Lage	Jose	18504	T.3	Li	Siguang	18334	T.24
Lage	Jose	18505	T.22	Li	Xiang	17390	T.9
Lai	Ming-Yu	18386	W.5	Li	Xiangdong	17375	T.6
Lang	Xuemei	18515	M.15	Li	Xiao-Bin	18188	M.3
Langlet	Thierry	17650	M.21	Li	Xiaoming	18334	T.24
Languri	Ehsan	17705	T.4	Li	Xueqiang	17769	M.11
Larsen	Marvin	18058	W.2	Li	YanJun	18334	T.24
Laux	Kevin	18116	W.13	Li	YanJun	18337	M.35
Lawler	Benjamin	17476	M.8	Li	Ying	18500	M.15
Lee	Byoung In	18167	T.22	Li	Yong	18259	M.25
Lee	Duck-Gyu	17574	M.23	Li	Yonglin	18204	T.32
Lee	Gi Cheol	18047	T.21	Li	Yue-Ming	18069	W.8
Lee	Gong Hee	19684	T.4	Li	Yueming	17494	W.8
Lee	Hyunjin	19652	T.23	Li	Zeng-Yao	17609	W.5
Lee	Jaeho	17721	T.29	Li	Zeng-Yao	17610	W.22
Lee	Jaehwan	19089	W.10	Li	Zhenhuan	18091	W.19
Lee	Jooyoung	17496	T.19	Li	Zhuo	18059	M.6
Lee	Jung Ho	17639	M.25	Liang	Haoyu	18169	W.8
Lee	Kwan-Soo	19088	T.16	Liang	Yongtu	18073	T.10
Lee	Kwan-Soo	19089	W.10	Liao	Qiang	19695	M.32
Lee	Kwan-Soo	19090	T.16	Liao	Quanwen	17433	W.11
Lee	Namkyu	18167	T.22	Liao	Zhiyuan	18112	W.21
Lee	W.H.	18273	M.13	Lienhard	John H.	17711	M.11
Lee	Yee-Ting	18206	W.19	Lienhard V	John	17553	T.10
Lee	Yee-Ting	18219	W.19	Lin	Chih-Ying	18349	M.6
Lee	Yong-Bok	18765	M.40	Lin	Hsien-Hung	19203	T.20
Lee	Young Mun	18168	W.10	Lin	Yu-Ting	19202	T.20
Lei	Le	17893	T.12	Lin	Yu-Ting	19203	T.20
Leiroz	Albino	18060	M.35	Lin	Zhimin	17671	T.8
Leitch	Michael	18387	T.27	Ling	Kong	17893	T.12
Leitch	Michael	18388	W.14	Ling	Ziye	18381	M.37
Leitch	Michael	18389	W.3	Linlin	Zhang	17579	T.10
Leitch	Michael	18390	T.15	Lipinski	Wojciech	17756	W.17
Leroy	Arny	17412	W.17	Lipinski	Wojciech	17757	T.19
Li	Ben-Wen	18032	M.30	Lipinski	Wojciech	17758	W.7
Li	Bingxi	18269	T.23	Lisienko	Vladimir	17545	M.18
Li	Bingxi	19449	M.8	Liu	Cai-Ping	17671	T.8
Li	Chih-Tao	17597	T.1	Liu	Caixi	18414	T.12
Li	Deyu	17555	M.29	Liu	Chien-Sheng	18219	W.19
Li	Deyu	17570	T.29	Liu	Hua	18068	M.33
Li	Deyu	17661	M.29	Liu	Jixin	17552	T.24
Li	Dong	17326	T.9	Liu	Shengchun	17769	M.11
Li	Feng-Chen	18188	M.3	Liu	Shenghui	18515	M.15
Li	Gen	17518	M.21	Liu	Tai	18808	M.40
Li	Guopei	17383	M.28	Liu	Wei	17433	W.11
Li	He-Ping	17609	W.5	Liu	Wenxing	18988	M.14
Li	Jiang	17782	M.40	Liu	Xiangdong	18409	M.7
Li	Jun	17934	T.32	Liu	Xiaohua	18589	T.24
Li	Liantao	17769	M.11	Liu	Yan	17487	M.31
Li	Ming-Jia	17576	W.17	Liu	Yongchen	17523	T.9
Li	Ming-Jia	18399	T.11	Liu	Zhao	17934	T.32
Li	Mingjia	18394	W.20	Liu	Zhao	17550	W.8
Li	Peiwen	17821	M.22	Liu	Zhichun	17550	W.8
Li	Perry	17911	W.21	Liu	Zhichun	17433	W.11
Li	Qinyi	17988	T.21	Liu	Zuodong	17596	M.27
Li	Ri	17389	T.28	Loftis	Anthony	17705	T.4
Li	Ri	18061	T.22	Longtin	Jon	17686	M.19
Li	Shiyang	17487	M.31	Longtin	Jon	17776	M.35
Li	Shuai	18337	M.35				

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Longtin	Jon	17964	M.31	Mejia	Jose	17511	T.18
Longtin	Jon P.	17767	M.4	Mejia	Jose	17690	M.38
Longtin	Jon P.	17672	W.6	Mendoza	Fabio	18462	W.9
Louie	David	17668	M.8	Meng	Fankai	18314	W.4
Louie	David	17709	M.8	Meng	Jiandong	18443	T.4
Lovelace	Kirsten	17727	T.15	Miller	David	17708	W.14
Lu	Dongli	17627	T.29	Mirehei	Moussa	18505	T.22
Lu	Jianfeng	17782	M.40	Mitra	Sourav	18467	T.20
Lu	Jianfeng	18295	W.21	Miyazaki	Takahiko	18146	T.30
Lu	Taojie	18112	W.21	Mofid	Sohrab Alex	17743	M.16
Lu	Yuanwei	18293	T.27	Molina	Antonio	17612	M.33
Lu	Yuanwei	18500	M.15	Monreal	Cintia	18493	M.41
Lundgreen	Ryan	17566	T.13	Montalbano	Andrew	17572	M.37
Luo	Feng	18131	M.29	Moon	Hee-Koo	18417	T.14
Luo	Roger	18227	M.15	Moon	Sang-Ki	17900	W.7
Ma	Bolong	17517	T.1	Moon	Sang-Ki	18008	T.10
Ma	Chongfang	18293	T.27	Moon	Seong-Sik	18415	T.14
Ma	Chongfang	18500	M.15	Morales	Jorge	18493	M.41
Ma	Chongfang	18521	T.11	Morales	Lucien	17553	T.10
Ma	Hongbin	17617	T.12	Moreno	Flavio	17963	M.1
Ma	Rui	18521	T.11	Mori	Shoji	18012	W.21
Ma	Ting	17969	M.41	Morrow	Jordan	17691	T.7
Ma	Weigang	17988	T.21	Moya	José D.	17612	M.33
Ma	Weigang	18037	M.17	Mu	Richard	17661	M.29
Ma	Xiuzhen	18333	M.26	Mu	Xingsen	18320	M.4
Ma	Xiuzhen	18337	M.35	Mu	Yu-Tong	17991	M.16
Machavariani	Evtikhi	18815	T.10	Munteshari	Obaidallah	18418	W.16
Macias-Melo	Edgar	17938	M.32	Muthusamy	Jayaveera	17511	T.18
Maciel	Homero	18604	M.39	Muzychka	Yuri	17355	W.3
Maciel	Homero	18604	M.39	Muzychka	Yuri	17642	T.31
Madanan	Umesh	18348	M.10	Myk	David	17535	W.11
Maddox	John	17689	M.27	Nabil	Mahdi	17655	W.18
Magaña	Hernan	17514	M.1	Nabizadeh Shahrehabak	Ebrahim	17999	T.13
Magee	Dylan	17767	M.4	Najafabadi	Hamed	18224	T.23
Mahan	Robert	18092	M.26	Napora	Andrew	17681	T.31
Mahdi	Jasim	18280	W.20	Naruka	Dilip Singh	18075	W.22
Mahony	Denis	17513	W.2	Naskar	Souvik	17676	M.20
Malalasekera	Weeratunge	17512	M.1	Nath	Rahul	17669	W.16
Malikov	German	17545	M.18	Nayebzadeh	Arash	17515	M.5
Mamalis	Sotirios	17476	M.8	Naylor	David	17157	M.32
Manay	Eyüphan	18490	M.34	Naylor	David	17365	M.3
Manay	Eyüphan	18487	M.24	Nemer	Maroun	17547	M.27
Mandev	Emre	18490	M.34	Newaz	Golam	17572	M.37
Manseki	Kazuhiro	17986	W.22	Ng	Serina	17743	M.16
Mao	Huan	18083	W.12	Nguyen	Ngoc Hung	17900	W.7
Mao	Xu	18437	W.11	Nguyen Ba	Chien	17775	T.7
Marazzi	Alberto	17745	W.1	Nikiforovich	Eugene	17605	T.33
Markides	Christos N.	17771	T.18	Nissenson	Paul	19597	T.5
Markides	Christos N.	18106	W.1	Niu	Chun-Yang	18359	M.30
Markides	Christos N.	17713	W.17	Noall	Jeff	18302	W.6
Marques	Larissa	17652	M.34	Nobes	David	18384	T.15
Mayeed	Mohammed	17572	M.37	Nobes	David	18385	T.25
Maynes	Daniel	17366	M.38	Nobes	David	18387	T.27
Maynes	Daniel	17481	M.38	Nobes	David	18388	W.14
Maynes	Daniel	17566	T.13	Nobes	David	18389	W.3
Maynes	Daniel	17708	W.14	Nobes	David	18390	T.15
Maynes	Daniel	17800	M.19	Norman	Narcrisa	17727	T.15
Maynes	Daniel	18117	M.14	Nsofor	Emmanuel	18280	W.20
Mayorga	Pedro	17514	M.1	O'dea	Murphy	17723	M.24
Mazur	Victor	18148	T.3	O'donovan	Alan	18340	T.15
Megaridis	Constantine	18452	T.27				

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Obembe	Abiola	17616	M.16	Pepper	Darrell W.	17471	M.20
Oh	Jong-Taek	17775	T.7	Peremans	Bart	18440	W.9
Ohashi	Junki	18154	M.28	Perkins	Richard	18117	M.14
Oiimat	Abdulla N.	17322	W.15	Persoons	Tim	18339	T.17
Okawa	Tomio	18154	M.28	Persoons	Tim	18342	T.2
Okuyama	Kunito	18012	W.21	Peters	Robert	18059	M.6
Oleksenko	Sergey V.	17478	T.31	Petraconi	Gilberto	18604	M.39
Oliphant	Kerry	17566	T.13	Petraconi	Gilberto	18604	M.39
Oosthuizen	Patrick H	17450	M.3	Pham Quang	Vu	17775	T.7
Oosthuizen	Patrick H	17451	M.3	Pierce	Flint	17668	M.8
Ophoff	Cédric	18224	T.23	Pierce	Flint	17709	M.8
Ophoff	Cédric	18225	M.33	Pierce	Flint	17710	T.18
Orlande	Helcio	18060	M.35	Pilon	Laurent	18368	M.6
Orlande	Helcio	18460	W.5	Pilon	Laurent	18369	W.9
Orosz	Matthew	18459	T.33	Pilon	Laurent	18418	W.16
Orosz	Matthew	18463	T.33	Poduska	Kris	17613	M.34
Otanicar	Todd	18459	T.33	Poncet	Sebastien	18120	T.6
Otanicar	Todd	18463	T.33	Pope	Kevin	17642	T.31
Ouyang	Xiaolong	18110	M.12	Popoola	Olubunmi	17562	W.14
Oviedo	Francisco	18493	M.41	Pradhan	Tapan Kumar	17117	M.5
Ozalp	Nesrin	18224	T.23	Preston	Daniel J.	18687	M.17
Ozalp	Nesrin	18225	M.33	Priestley	Kory	18092	M.26
Ozkan	Onur	17806	W.6	Promis	Geoffrey	17650	M.21
Oztoprak	Canberk	17662	M.12	Qi	Baojin	17390	T.9
Pacheco	Cesar	18060	M.35	Qi	Hong	18359	M.30
Pal	Animesh	18467	T.20	Qin	Xiaoyong	18308	M.10
Pallares	Jordi	17995	T.18	Qin	Xiaoyong	18315	M.10
Palm	Björn	17621	T.2	Qiu	Suizheng	18204	T.32
Pan	Cj	16865	M.42	Qiu	Sz	18254	W.18
Pan	Gechuanqi	17782	M.40	Qiu	Yu	17576	W.17
Pan	Liangming	17736	T.12	Qu	Zhiguo	17625	W.22
Pando	Gabriel	17514	M.1	Qu	Zhiguo	17627	T.29
Panigrahi	Pradipta Kumar	17117	M.5	Quanbin	Zhao	17549	T.7
Pantoya	Michelle	18580	M.8	Radhakrishnan	Babu	17722	W.18
Papa	Francesco	18348	M.10	Raizner	Motti	17120	T.32
Park	Byung Ha	18996	M.41	Rasimarzabadi	Faezeh	18388	W.14
Park	Chan Woo	17592	M.42	Rasimarzabadi	Faezeh	18389	W.3
Park	Goon Cherl	18831	T.31	Rasimarzabadi	Faezeh	18390	T.15
Park	Hyun Sun	18047	T.21	Rattner	Alex	17655	W.18
Park	Hyungmin	17496	T.19	Ravikumar	Dhananjay	17964	M.31
Park	Jinsoo	18415	T.14	Ray	Menaka	17525	M.31
Park	Jong-Kuk	18008	T.10	Ray	Menaka	17722	W.18
Park	Ju Yeop	17400	W.12	Reddy	A. Surbramanyam	17100	M.5
Park	Keunhwan	17574	M.23	Reinholz	Emilee	18058	W.2
Park	Kil Won	17332	W.15	Ren	Qinlong	17151	T.26
Park	Seung-Jae	19090	T.16	Ren	Wuyue	18254	W.18
Parsazadeh	Mohammad	17936	W.20	Rhee	Gwang Hoon	18415	T.14
Parthasarathy	Ramkumar	17963	M.1	Rhee	Gwang Hoon	18416	W.13
Patel	Bhavesh	17903	M.24	Ribeiro	Paulo	18128	M.6
Patel	Shivam	17666	T.25	Rico-Martínez	Ramiro	17706	T.28
Patel	Vipul	17338	M.16	Roberts	Kenneth	18459	T.33
Patil	Pallavi	17705	T.4	Roberts	Nick	19680	W.16
Paudel	Achyut	18345	W.6	Robinson	Anthony J.	18342	T.2
Paul	Indrani	17482	M.26	Rocha	Nelson	18060	M.35
Paul	Titan	18114	M.22	Rodríguez Aumente	Pedro	18493	M.41
Peña	Rafael	18493	M.41	Rodríguez-Sanchez	David	17612	M.33
Pearlman	Howard	17016	M.21	Rodríguez-Uribe	Juan Carlos	17938	M.32
Peles	Yoav	17311	M.5	Rogenski	Josuel	17652	M.34
Peng	Minjun	18209	T.8	Rouaud	Olivier	17815	T.28
Pepper	Darrell	17999	T.13	Ruan	Li-Ming	18359	M.30

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Rubalcava-Cruz	Jose	18368	M.6	Sivasankaran	Harish	17369	M.12
Ruck	Sebastian	17408	M.10	Skop	Helen	18568	T.30
Sabbagh	Reza	18387	T.27	Sloan	Todd	17389	T.28
Sabbagh	Reza	18389	W.3	Smith	Dylan	18580	M.8
Sadr	Reza	17511	T.18	Smith	Rick	18523	T.22
Saha	Bidyut Baran	18467	T.20	Smith	Sonya	17727	T.15
Sahin	Bayram	18487	M.24	Sofianopoulos	Aimilios	17476	M.8
Sajwani	Rahim	18568	T.30	Soljačić	Marin	17412	W.17
Sang	Lixia	18808	M.40	Soltani	Hirad	18388	W.14
Sangeorzan	Brian	17517	T.1	Sommers	Andrew	17402	T.28
Sant	Gaurav	18368	M.6	Sommers	Andrew	17681	T.31
Sant	Gaurav	18369	W.9	Soncini	Ryan	17966	T.19
Schlup	Jason	18318	M.11	Song	Chulhwa	17900	W.7
Searle	Matthew	17366	M.38	Song	Dongxing	18015	W.11
Sehgal	Satbir	18180	T.21	Song	Fuyuan	18333	M.26
Sekrani	Ghofrane	18120	T.6	Song	In-Yeob	17597	T.1
Seol	Hyo Seong	17332	W.15	Souza	Leandro	17652	M.34
Seon	Gu-Won	19652	T.23	Speetjens	Michel	17677	M.35
Serrano-Arellano	Juan	17938	M.32	Srinivas	Suripeddi	17100	M.5
Seyf	Hamid	18989	M.13	Srinivasacharya	D.	18143	M.26
Seyf	Hamid	18990	M.36	Steinfeld	Aldo	17756	W.17
Seyf	Hamid	18991	M.29	Steins	Christopher	17793	W.13
Shaeri	Mohammad Reza	17016	M.21	Stucki	Chad	17800	M.19
Shah	Mirza	18006	M.7	Su	Cheng-Shuai	17740	W.21
Shah	Mirza	18432	M.25	Su	Fengmin	17617	T.12
Shahriari	Arjang	17808	M.12	Su	G. H.	18254	W.18
Shangguan	Yanqin	17494	W.8	Su	G. H.	18204	T.32
Shanghua	Liu	17579	T.10	Su	Wen	18822	T.24
Shao	Yazhou	18333	M.26	Su	Wen	18827	T.20
Sharma	Abhishek	17666	T.25	Su	Wen-Tao	18188	M.3
Shekrladze	David	18815	T.10	Su Cheong	Park	18041	W.12
Shekrladze	Irakli	18815	T.10	Sugimoto	Shusei	17986	W.22
Shen	Biao	18298	M.14	Suh	C. Steve	18437	W.11
Shen	Chaoqun	18409	M.7	Sultaan	Kaniz R	17642	T.31
Shen	Lian	18414	T.12	Sun	Baozhi	18337	M.35
Shen	Shengqiang	18320	M.4	Sun	Dongliang	17537	T.27
Shen	Shengqiang	18589	T.24	Sun	Dongliang	18073	T.10
Shen	Yichen	17412	W.17	Sun	Ducheng	18259	M.25
Shi	Jianxin	17579	T.10	Sun	Haifeng	18091	W.19
Shi	Kewei	17617	T.12	Sun	Jun	18359	M.30
Shih	Angela	19597	T.5	Sun	Liyong	17773	T.3
Shih	Shih-Hao	18317	M.11	Sun	Wan	17736	T.12
Shih	Yang-Cheng	18317	M.11	Sun	Zhaolei	17643	T.32
Shim	Jae Sool	18996	M.41	Sung	Min-Feng	18442	T.14
Shin	Dong Hwan	18765	M.40	Swaminathan	Jaichander	17553	T.10
Shin	Dong Hwan	18765	M.40	Taherian	Hessam	18007	M.13
Shin	Youhwan	18765	M.40	Taherian	Hessam	18059	M.6
Shindle	Bradley	18457	M.4	Taherian	Hessam	18125	M.24
Shuai	Yong	18269	T.23	Takahashi	Koji	18298	M.14
Shuai	Yong	18270	M.18	Sugiura	Takashi	17986	W.22
Simon	Terrence	17911	W.21	Takata	Y	18298	M.14
Simon	Terrence	17934	T.32	Takata	Yasuyuki	17369	M.12
Simon	Terrence W.	17758	W.7	Talal	Qazi	18360	W.16
Simon	Terrence W.	18417	T.14	Talapatra	Siddharth	17336	W.18
Singh	Gurpreet	17620	M.23	Talukdar	Prabal	17338	M.16
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
Sinha Mahapatra	Pallab	18452	T.27	Tan	Heping	18269	T.23
Sitao	Li	17855	M.16	Tan	Heping	18270	M.18

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Tanaka	Mikako	18012	W.21	Vuong	Luat	19763	W.5
Tang	Clement	18121	M.20	Wachs	Faye	19597	T.5
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
Tao	Wen-Quan	17638	T.21	Walker	Greg	17555	M.29
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
Tao	Wenquan	17552	T.24	Wang	Evelyn N.	17412	W.17
Tao	Wenquan	17583	M.31	Wang	Evelyn N.	18687	M.17
Tao	Wenquan	17603	W.20	Wang	Hong	18566	T.8
Tari	Ilker	17662	M.12	Wang	Hui	17625	W.22
Tawk	Rony	17547	M.27	Wang	Jiao	18320	M.4
Teixeira	Jose	18128	M.6	Wang	Jie	17736	T.12
Teixeira	Senhorinha	18128	M.6	Wang	Jifen	18796	T.30
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
Tian	Wenxi	18254	W.18	Wang	Po-Chun	18206	W.19
Tibbetts	Jake	18781	T.25	Wang	Qian	17541	T.24
Ting	Wu	18293	T.27	Wang	Qian	19449	M.8
Titaev	Alexander	17545	M.18	Wang	Qiuwang	17386	M.31
To	Albert	18116	W.13	Wang	Qiuwang	17487	M.31
Tong	Zi-Xiang	18399	T.11	Wang	Qiuwang	17736	T.12
Toubassy	Joseph	18363	M.6	Wang	Qiuwang	17969	M.41
Toubassy	Joseph	18372	M.41	Wang	Qiuwang	17983	W.19
Tran Le	Anh Dung	17650	M.21	Wang	Shuang	17583	M.31
Trieling	Ruben	17677	M.35	Wang	Tianmi	19523	T.33
Truster	Nicholas	17402	T.28	Wang	Wei	18037	M.17
Truster	Nicholas	17681	T.31	Wang	Weilong	17782	M.40
Tsui	Yeng-Yung	18002	M.19	Wang	Weilong	18295	W.21
Tu	Jiyuan	17375	T.6	Wang	Wenxian	17773	T.3
Turan	Osman	17509	M.34	Wang	Xian	17494	W.8
Urquiza	Gustavo	18147	M.11	Wang	Xiaoxiao	18589	T.24
Usmani	Abdullah Y	17666	T.25	Wang	Xiuling	17471	M.20
Uyanwaththa	Asela	17512	M.1	Wang	Xueli	18818	M.19
Vafaei	Saeid	17535	W.11	Wang	Yabo	17769	M.11
Vafaei	Saeid	17986	W.22	Wang	Yingchun	17518	M.21
Vaillon	Rodolphe	17818	M.18	Wang	Yingying	17311	M.5
Van De Ven	James D.	17911	W.21	Wang	Zhen-Chuan	18130	M.28
Van Wachem	Berend	17771	T.18	Wang	Zhenchuan	18138	T.23
Vanderveer	Joseph	17687	T.1	Warsinger	David	17553	T.10
Vanka	Surya P	17663	T.4	Waters	Jiajia	17471	M.20
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
Villalba	Aldo	17745	W.1	Weigand	Bernhard	18562	M.36
Voskuilen	Tyler	17709	M.8	Welch	Albert	17705	T.4

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Wenzel	Everett	17744	T.26	Xu	Weicong	18827	T.20
Wikramanayake	Enakshi	17806	W.6	Xu	Wencan	17964	M.31
Wilke	Kyle	18687	M.17	Xu	Xianfan	18227	M.15
Wood	Codi	17655	W.18	Xu	Zhiming	17584	M.27
Wright	John	17365	M.3	Xu	Zhiming	17596	M.27
Wu	Chien-Chih	19202	T.20	Xue	Kangkang	17518	M.21
Wu	Hua-Lin	18317	M.11	Yadav	R	18150	T.30
Wu	Jiangquan	17386	M.31	Yadav	Rupesh	17804	T.9
Wu	Jinqiao	18295	W.21	Yadav	Rupesh	18145	M.21
Wu	Jinsui	18379	M.20	Yakomaskin	Alexander	18461	M.14
Wu	Jun-Yun	18365	W.19	Yamada	Masayuki	18298	M.14
Wu	Junmei	18169	W.8	Yan	Gang	17643	T.32
Wu	Pey-Shey	18365	W.19	Yan	Junjie	17518	M.21
Wu	Xi	18324	T.19	Yan	Shen	18037	M.17
Wu	Xingru	19006	M.23	Yan	Zhiheng	18343	W.4
Wu	Yuting	18293	T.27	Yang	An-Shik	18206	W.19
Wu	Yuting	18500	M.15	Yang	An-Shik	18219	W.19
Wu	Yuting	18521	T.11	Yang	An-Shik	18386	W.5
Wun	Chain-Hao	18317	M.11	Yang	Che-Hao	18458	W.18
Xi	Huan	17795	T.20	Yang	Chun	18864	M.17
Xi	Zhao	18259	M.25	Yang	Jian	17386	M.31
Xia	Ao	19695	M.32	Yang	Jian	17487	M.31
Xia	Shaojun	18309	M.22	Yang	Jian	17736	T.12
Xia	Shaojun	18312	T.1	Yang	Lin	17555	M.29
Xia	Shaojun	18313	T.27	Yang	Liu	17487	M.31
Xia	Xin-Lin	17740	W.21	Yang	Longbin	18333	M.26
Xia	Xin-Lin	18068	M.33	Yang	Longbin	18334	T.24
Xia	Xinlin	18091	W.19	Yang	Longbin	18337	M.35
Xiang	Yu	17579	T.10	Yang	X.H.	18095	M.40
Xiang	Yue	18102	T.8	Yang	Yang	17555	M.29
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
Xie	Huaqing	18796	T.30	Yen	Erik	17214	W.4
Xie	Zhihui	18308	M.10	Yeon	Seong-Hyeon	18416	W.13
Xie	Zhihui	18309	M.22	Yigit	Sahin	17509	M.34
Xie	Zhihui	18310	M.3	Yin	Ying	17625	W.22
Xie	Zhihui	18311	M.10	Yin	Zhan	17983	W.19
Xie	Zhihui	18312	T.1	Yingjie	Zhao	17579	T.10
Xie	Zhihui	18313	T.27	Yonghui	Xie	17774	M.27
Xie	Zhihui	18314	W.4	Yorgason	William	19680	W.16
Xie	Zhihui	18315	M.10	You	Seong-Jae	18415	T.14
Xing	Tao	18330	M.37	You	Seong-Jae	18416	W.13
Xiong	Chao	18138	T.23	You	Seung M.	17659	M.38
Xiong	Wanyu	18988	M.14	You	Seung-Moon	17639	M.25
Xu	Chuan-Long	18359	M.30	Youn	Young-Jung	18008	T.10
Xu	Jin	17603	W.20	Young	Benjamin A.	18368	M.6
Xu	Mingchen	17985	M.7	Young	Benjamin A.	18369	W.9
Xu	Minghai	18083	W.12	Yu	Bo	17537	T.27
Xu	Rui-Na	18130	M.28	Yu	Bo	18073	T.10
Xu	Rui-Na	18137	M.33	Yu	Bo	18094	T.11
Xu	Ruina	18110	M.12	Yu	Bo	18097	T.8
Xu	Ruina	18131	M.29	Yu	Bo	18102	T.8
Xu	Ruina	18138	T.23	Yu	Bona	18385	T.25
Xu	Runzhang	18333	M.26	Yu	Guojun	18254	W.18
Xu	Runzhang	18334	T.24	Yuan	Qing	18097	T.8
Xu	Shengduo	18270	M.18	Yuan	Yang	17375	T.6
Xu	Shiming	18324	T.19	Yuan	Yuan	18269	T.23
Xu	Terry	17570	T.29	Yue	Lindsey	17757	T.19
Xu	Weichong	18822	T.24				

Last	First	Paper No.	Session	Last	First	Paper No.	Session
Yue	Lindsey	17758	W.7	Zhang	Yonghai	17523	T.9
Yusuf	Yishak	18387	T.27	Zhang	Yuwen	17459	M.17
Zada	Kyle	19596	T.16	Zhang	Zhen	18110	M.12
Zan	Yuanfeng	18259	M.25	Zhang	Zheng Guo	18381	M.37
Zan	Yuanfeng	18988	M.14	Zhang	Zhijian	18209	T.8
Zeng	Min	17983	W.19	Zhao	Chuangyao	17552	T.24
Zeng-Yao	Li	17608	T.32	Zhao	Cunlu	18864	M.17
Zepper	Ethan	17709	M.8	Zhao	Dawei	18988	M.14
Zhang	Bo	17978	M.22	Zhao	Li	18822	T.24
Zhang	Chao	17911	W.21	Zhao	Li	18827	T.20
Zhang	Chao	18496	T.19	Zhao	Yajing	18687	M.17
Zhang	Delou	18521	T.11	Zhao	Yawen	17821	M.22
Zhang	Gaoping	18097	T.8	Zhao	Yitong	19597	T.5
Zhang	Guolei	18333	M.26	Zheng	Kai	17686	M.19
Zhang	Guoyu	17389	T.28	Zheng	Nan	18822	T.24
Zhang	Haochun	17740	W.21	Zheng	Yan	18131	M.29
Zhang	Hu	18069	W.8	Zheng	Yan	18138	T.23
Zhang	Jianfei	17583	M.31	Zheng	Yi	18707	T.3
Zhang	Jianyuan	18827	T.20	Zheng	Zhang-Jing	17795	T.20
Zhang	Jingru	17422	W.15	Zhi	Liu	17626	M.32
Zhang	L.y.	18095	M.40	Zhiguo	Qu	17626	M.32
Zhang	Le	18130	M.28	Zhimin	Han	17596	M.27
Zhang	Le	18138	T.23	Zhong	Wei	17767	M.4
Zhang	Li-Zhi	17855	M.16	Zhou	Jing	18343	W.4
Zhang	Li-Zhi	17383	M.28	Zhou	Jun	17773	T.3
Zhang	Luzeng	18417	T.14	Zhou	Lang	17386	M.31
Zhang	Qian	17555	M.v 29	Zhou	Liang	17625	W.22
Zhang	Qian	17570	T.29	Zhou	Rui-Rui	18032	M.30
Zhang	Qian	17661	M.29	Zhou	Wen	17609	W.5
Zhang	Tao	17776	M.35	Zhou	Zhifu	17326	T.9
Zhang	Taolue	17511	T.18	Zhu	Chuan-Yong	17610	W.22
Zhang	Wenhua	17537	T.27	Zhu	Fengjie	18169	W.8
Zhang	Xin	17661	M.29	Zhu	Jia	18027	T.26
Zhang	Xing	17988	T.21	Zhu	Kai	17769	M.11
Zhang	Xing	18037	M.17	Zhu	Xun	19695	M.32
Zhang	Ya-Ning	17740	W.21	Zhu	Yinhai	18112	W.21
Zhang	Yaning	19449	M.8	Zhu	Yuan	18259	M.25
Zhang	Ye	17821	M.22	Zhuang	Jyun-Rong	18206	W.19
Zhang	Yin	17555	M.29	Zhuang	Jyun-Rong	18219	W.19
Zhang	Yin	17661	M.29	Ziskind	Gennady	18159	T.26

