



4TH IS - FMTS 2019

**THE 4TH INTERNATIONAL SYMPOSIUM ON
FLUID MECHANICS AND THERMAL SCIENCES 2019**

**14TH DECEMBER 2019
PALM GARDEN HOTEL, IOI RESORT CITY, PUTRAJAYA**

www.akademiabaru.com

KEYNOTE SPEAKER



Katsuhiko Shibata was born in 1959 in Hokkaido. He joined Takasago Thermal Engineering Co., Ltd. in 1984. In charge of the construction work of Tokyo Dome in 1986, and have working at R & D center of TTE since 1987. His area of expertise is BEMS (Building and Energy Management System) and automatic control of air conditioning system. In 1999 he got Dr. for practical use of a fault diagnosis system for air conditioning system. The typical development system is, “Bearing vibration monitoring system”, “Fault diagnosis expert system for building equipment”, “High precision room differential pressure control system”, “Air conditioning system for data center”, “Estimation method of cooling load in an underground station”. He specializes in system development utilizing IoT and energy simulation of facility systems.

CONFERENCE TENTATIVE

TIME	SESSION			
8.00-8.30 am	Registration			
8.30-8.45 am	Prayer recitation Akademia Baru montage screening			
8.45-9.00 am	Welcoming remarks by conference chairman: Dr. Nor Azwadi Che Sidik Conference montage screening			
9.00-9.30 am	Keynote speaker: Dr. Katsuhiko Shibata			
9.30-9.40 am	Photo session			
9.40-10.00am	Tea break			
10.00-1.00pm	Parallel session 1			
	1 (A) Adenium	1 (B) Begonia	1 (C) Canna	1 (D) Dahlia
	069-076	025-018	168-187	113-160
	006-005	040-038	037-035	100-114
	003-002	026-020	079-096	123-133
	069-077	009-021	140-153	053-054
	008-006	121-130	141-154	027-023
	013-007	084-082	125-144	082-119
	069-147	028-025	042-040	144-161
	Short Break			
	031-030	104-106	157-171	155-170
	116-122	032-028	044-041	150-162
	068-065	118-126	148-175	142-163
	170-190	117-124	033-029	066-062
071-069	024-033	136-179	065-063	
165-182	035-183	145-180	152-168	
104-104	021-014	168-188	156-169	
1.00-2.00 pm	Lunch and solat			
2.00-4.30 pm	Parallel session 2			
	2 (A) Adenium	2 (B) Begonia	2 (C) Canna	2 (D) Dahlia
	072-146	082-080	145-181	105-108
	068-066	084-081	038-036	106-110
	002-068	023-024	086-097	134-142
	024-017	010-009	138-150	131-140
	071-070	082-129	099-099	129-138
	073-071	120-127	017-100	154-166
	Short Break			
	074-072	090-089	101-101	126-136
075-073	093-090	130-149	034-031	

	077-074 132-141 080-078 164-189	139-151 096-092 018-013 076-185	103-103 135-143 058-105 158-172	123-134 057-056 113-120 189-170
4.40-5.00 pm	Afternoon tea			

SESSION CHAIRMAN

DR. USWAH KHAIRUDDIN
DR. KATSUHIKO SHIBATA
DR. SHEIKH AHMAD ZAKI
DR. NORAZAM ARBIN
ASSOC. PROF. DR WAN AZMI BIN WAN HAMZAH
DR. NORAZLIANIE SAZALI
PROF DR. MD. MUSTAFIZUR RAHMAN
PROF. YUTAKA ASAKO
IR DR FUDHAIL BIN ABDUL MUNIR
DR. UMMIKALSOM ABIDIN
DR. AHMAD SYUHADA
DR. ILHAM MAULANA
DR. FAZILA MOHD ZAWAWI
DR. NATRAH KAMARUZAMAN
DR. SUKAMTA
DR. HENDRA WIJAKSANA
DR. MOHD FAIZAL HASAN

PARALLEL SESSION 1 (A)

ADENIUM

Chairperson: Dr. Uswah Khairuddin, Dr. Katsuhiko Shibata

Technical: Wan Mohd Arif Bin Aziz Japar

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1000 – 1300	1000 – 1012	Dr. Siti Suzilliana Putri Mohamed Isa , Shahanaz Parvin, Prof. Dr. Norihan Md. Arifin, Dr. Fadzilah Md Ali <i>The Magnetohydrodynamics Casson Fluid Flow, Heat and Mass Transfer Due to the Presence of Assisting Flow and Buoyancy Ratio Parameters</i>	069-076
	1012 – 1024	Khai Ching Ng , Lit Ken Tan, Wah Yen Tey <i>Meshless Fluid Structural Interaction (FSI) Simulation of Deformation of Flexible Structure Due to Water Dam Break</i>	006-005
	1024 – 1036	Mohd Safuan Zakaria , Suhaimiha Hassan, M.Faizairi <i>Production of Volatile and Char During Pyrolysis and Combustion in Domestic Wastewater Sludge by using Thermogravimetric Analysis.</i>	003-002
	1036 – 1048	Dr. Siti Suzilliana Putri Mohamed Isa , Shahanaz Parvin, Prof. Dr. Norihan Md. Arifin, Dr. Fadzilah Md Ali <i>Soret and Dufour Effects on Magnetohydrodynamics Newtonian Fluid Flow beyond a Stretching/Shrinking Sheet</i>	069-077
	1048 – 1100	Ahmad Fadzil Sharol , Amir Abdul Razak, Zafri Azran Abdul Majid, Muhammad Amirul Azwan Azmi, Muhammad Amir Syahiran Muhammad Tarminzi <i>Evaluation on the Performance of Cross-Matrix Absorber Double-Pass Solar Air Heater (CMA-DPSAH) With and Without Thermal Energy Storage Material</i>	008-006
	1100 – 1112	Mun Hoe Hooi , Wei King Tiong, Kim Gaik Tay, San Nah Sze, Kang Leng Chiew <i>Simulation of Internal Undular Bores of Depression Propagating over a Slowly Varying Region</i>	013-007
	1112 – 1124	Siti Suzilliana Putri Mohamed Isa , Shahanaz Parvin, Norihan Md. Arifin, Fadzilah Md Ali <i>Dual Numerical Solutions on Mixed Convection Casson Fluid Flow due to the Effect of the Rate of Extending and Compressing Sheet –Stability Analysis</i>	069-147
	1124 – 1136	SHORT BREAK	
	1136 – 1148	Chattawat Aroonrujiphan <i>Flow and Heat Transfer Characteristics of Impinging Bubbly Jet</i>	031-030
	1148 – 1200	Zetty Akhtar Bt Abd Malek , Prof Dr.Md.Mustafizur Rahman <i>Thermal Conductivity and Viscosity of TiO₂/CNTs-Ethylene Glycol based Nanofluids for Different Ratio of Nanoparticle.</i>	116-122
	1200 – 1212	Anika Zafiah Mohd Rus , Nursaidatulsyida Sulong, Nurul Syamimi Mohd Salim <i>Thermal Degradation of Polyethylene Blended with Waste Oil Polymer under Ultra-Violet Irradiation Exposure</i>	068-065
	1212 – 1224	Natrah Kamaruzaman , Mohd Farhan Wisley, Ummikalsom Abidin Mohsin Mohd Sies, Mohd Ridhwan Mohd Ruslan <i>Effect of Channel Arrangement on the Thermal Hydraulic Performance of Multilayer Microchannel Arrays</i>	170-190
	1224 - 1236	Muhammad Arif Budiyanto <i>The Optimum Stern-Foil Position on the Patrol Vessel at High Speed Condition using Computational Fluid Dynamics</i>	071-069
1236 - 1248	Badrul Amin Hanafi , Ummikalsom Abidin, Nur Shamimi Amirah Md Sunhazim, Natrah Kamaruzaman <i>Magnetic Microbeads Trapping Using Magnet Wire</i>	165-182	

	1248 – 1300	Fazila Mohd Zawawi , Fitri Ali Aznan Ali, Kamarulafizam Ismail, Syahrullail Samion, Ummikalsom Abidin, Nur Safwati Mohd Nor <i>Performance Augmentation of Betz Horizontal Axis Wind Turbine by Integrating the Brim-Typed Diffuser Shroud</i>	104-104
--	-------------	--	---------

PARALLEL SESSION 1 (B)

BEGONIA

Chairperson: Dr. Sheikh Ahmad Zaki, Dr. Norazam Arbin

Technical: Ahmad Tajuddin Bin Mohammad

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1000 – 1300	1000 – 1012	Nazihah Zainal , Norazreen Abd Aziz, Fatin Afika Abdul Motalib, Muhamad Ramdzan Buyong <i>Chaotic Mixing of Microdroplets using Surface Acoustic Waves Device</i>	025-018
	1012 – 1024	Noor Akma Watie Mohd Noor , Ir. Dr. Hasril Hasini, Muhamad Shazarizul Haziq Mohd Samsuri, Dr. Meor Mohd Faisal Meor Zulkifli <i>Effects of using Different Types of Coal on Combustion Characteristics in Coal-fired Boiler</i>	040-038
	1024 – 1036	Hendra Wijaksana , I.N.S.Winaya, Made Sucipta, Ainul.Ghurri <i>Study Potency of Dehumidifier Coil Based Internal Cooling for Nanopore Bamboo Semi Indirect Evaporative Cooling</i>	026-020
	1036 – 1048	Poomin Krisangsri , Teerasak Hudakorn, Noppong Sritrakul <i>Effect of Internal Diameter and Working Fluids on Thermal Performance of a Vertical Closed-Loop Oscillating Heat pipe with Double Heat Sources</i>	009-021
	1048 – 1100	Azhar Mohamed <i>Experimental Investigation of the Effect of a Downstream Square Plate on Vortex-Induced Vibration and Galloping of Square Cylinders in Uniform Flow</i>	121-130
	1100 – 1112	Norshaza Atika Saidin , Mohd Ariff Admon, Khairy Zaimi <i>Unsteady Three-Dimensional Free Convection Flow near the Stagnation Point over a General Curved Isothermal Surface in a Nanofluid</i>	084-082
	1112 – 1124	Ibroheng Piya , Chayut Nuntadusit <i>Numerical Simulation of Heat Transfer and Flow Characteristic with Inclined Oval-Trench Dimples</i>	028-025
	1124 – 1136	SHORT BREAK	
	1136 – 1148	Nur Shamimi Amirah Md Sunhazim , Fazila Mohd Zawawi; Kamarulafizam Ismail; Syahrullail Samion; Ainaa Maya Munira Ismail <i>CFD Investigation on the Jet-Engine Inspired Wind Turbine</i>	104-106
	1148 – 1200	Ahmad Fitriadhy , N. Amira Adam, M. FadhliAhmad, A. Jusoh, Noraieni Hj. Mokhtar <i>CFD Analysis on Vertical Motion Performance of a Floating Jetty Incorporated with Heave Plate Design</i>	032-028
	1200 – 1212	Nor Azwadi Che Sidik , Navid Aslfattahi, R. Saidur, Mohd Faizul Mohd Sabri, Md. Hasan Zahir <i>Experimental Assessment of a Novel Eutectic Binary Molten Salt-based Hexagonal Boron Nitride Nanocomposite as a Promising PCM with Enhanced Specific Heat Capacity</i>	118-126
	1212 – 1224	Wahaizad Safiei , M.M.Rahman, R.Kulkarni <i>Thermal Conductivity and Dynamic Viscosity of Nanofluids: A Comprehensive Review</i>	117-124
	1224 - 1236	Gunawan , Sri Poernomo Sari <i>Drag Reduction and Degradation Characteristics of Nata de Coco Suspension in Spiral Pipe</i>	024-033
	1236 - 1248	Muhamad Shazarizul Haziq Mohd Samsuri , Ir. Dr. Hasril Hasini, Noor Akma Watie Mohd Noor, Dr. Meor Mohd Faisal Meor Zulkifli <i>Temperature Profile Assessment of Sub-Bituminous Coal using a Single Burner Combustion Test Facility</i>	035-183
1248 – 1300	Amira Shahirah Malek Amir Azmin , Irnie Azlin Zakaria, Saifuddin Khalid, Wan Ahmad Najmi Wan Mohamed <i>Numerical Analysis of Aluminium Oxide and Silicon Dioxide Nanofluids in Serpentine Cooling Plate</i>	021-014	

PARALLEL SESSION 1 (C)

CANNA

Chairperson: Assoc. Prof. Dr Wan Azmi Bin Wan Hamzah, Dr. Norazlianie Sazali

Technical: Muhammad Arif Bin Harun

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1000 – 1300	1000 – 1012	Muhammad Ilham Maulana , Ahmad Syuhada <i>Analysis of Absorber Material Effect on Optimization of Heat Absorption in Solar Collectors</i>	168-187
	1012 – 1024	Sudarja , Sukamta <i>Experimental Study on Flow Pattern of the Gas-Liquid Two-Phase Flow in 45o Inclined Capillary Pipe with Various Liquid Viscosity.</i>	037-035
	1024 – 1036	Vikneshvaran , Sheikh Ahmad Zaki, Nurizzatul Atikha Rahmat, Mohamed Sukri Mat Ali, Fitri Yakub <i>Evaluation of Atmospheric Boundary Layer in Open Loop Boundary Layer Wind Tunnel Experiment</i>	079-096
	1036 – 1048	N.S.M. Sahid , M.M. Rahman, K. Kadirgama, D. Ramasamy, M.A. Maleque <i>Preparation Methods and Challenges of Hybrid Nanofluids: A Review</i>	140-153
	1048 – 1100	Bhre Wangsa Lenggana <i>Magnetorheological Fluids Damper for Unmanned Aerial Vehicles</i>	141-154
	1100 – 1112	Wajiha Tasnim Urmi , Prof. Dr Muhammad Mustafizur Rahman, Assoc. Prof. Dr Wan Azmi Bin Wan Hamzah, Assoc. Prof. Dr Kumaran a/l Kadirgama, Assoc. Prof. Ts. Dr Devarajan Ramasamy, Assoc. Prof. Dr Md Abdul Maleque <i>Experimental Investigation on the Stability of 40% ethylene glycol Based TiO₂-Al₂O₃ Hybrid Nanofluids</i>	125-144
	1112 – 1124	Sukamta , Endradi Roziantho, Sudarja <i>Experimental Study on Two-Phase Flow of Gas-Liquid with High Viscosity in Capillary with the Slope of 5o against Horizontal Position</i>	042-040
	1124 – 1136	SHORT BREAK	
	1136 – 1148	Chungpyo Hong , Yutaka Asako, Mohammad Faghri, Danish Rehman, Gian Luca Morini <i>Experiments on Measurement of Heat Transfer Rate of Gas Flow Through Microchannel with Constant Wall Temperature</i>	157-171
	1148 – 1200	Kok-Cheong Wong , Yih Loong Chan, Boon Hoe Goh <i>Investigation of Thermal Hydraulic Performance of Microchannel Heat Sink with Hourglass Profile</i>	044-041
	1200 – 1212	Eng Pei Ying , Mohd Zamani Bin Ngali, Mohd Omar Mukhtar Zainul Azmi, Wee Chang Ann <i>Drying Droplets : A Review on Its Numerical and Experimental Studies to Remove Coffee Ring Effect</i>	148-175
	1212 – 1224	Wongsathon Boonyopas , Nuttamas Uppatam, C.Nuntadusit <i>Flame Structure and Heat Transfer Characteristic of Premixed Flame Jet with Pulsating Effect</i>	033-029
	1224 - 1236	Mohd Shahrul Nizam Ibrahim , Ahmad Zakaria <i>Enhancement of Wind Power Density by Oblique and Cluster Wind Turbine Configuration</i>	136-179
	1236 - 1248	Muhammad Irfan Dzaky , Engkos Achmad Kosasih, Ahmad Zikri <i>Aquades Production with Compression System: Influence Cyclone Separator Temperature and Percentage of Water Discharged on Specific Energy Consumption</i>	145-180
1248 – 1300	Ahmad Syuhada , Muhammad Ilham Maulana <i>Study of Ability Level of the Sun Absorption Intensity by Building Yard Materials on Environmental Thermal Comfort</i>	168-188	

PARALLEL SESSION 1 (D)

DAHLIA

Chairperson: Dr. Mohd Faizal Hasan, Prof. Yutaka Asako

Technical: Muhammad Ridhwan Bin Mohd Roslan

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1000 – 1300	1000 – 1012	Arina Sauki , Muhammad Saifudin bin Mohd Azmi, Wan Zairani Wan Bakar, Husna Hayati Jarni, Tengku Amran Tengku Mohd, Wan Asma Wan Ibrahim, Putri Nadzrul Faizura Megat Khamaruddin <i>Feasibility Study of using Oil Palm Trunk Waste Fiber as Fluid Loss Control Agent and Lost Circulation Material in Drilling Mud</i>	113-160
	1012 – 1024	Nur Azlina Mat Noor , Mohd Ariff Admon, Sharidan Shafie <i>MHD Squeezing Flow of Casson Nanofluid with Chemical Reaction, Thermal Radiation and Heat Generation/Absorption</i>	100-114
	1024 – 1036	Sidra Aman , Zulkhibri Ismail, Mohd. Zuki Salleh <i>Second Grade Nanofluid Flow over a Vertical Plate with Wall Transpiration</i>	123-133
	1036 – 1048	Nizamani Zafarullah , Akihiko Nakayama, Montasir Osman, Mushtaq Ahmed <i>Review of Fluid Structure Interaction Model for the Wave Current Behaviour with the Offshore Structures</i>	053-054
	1048 – 1100	Panupong Jueraong , C. Nuntadusit, N. Puzu <i>An Investigation of Heat Transfer on the Downstream Surface of Continuous and Pulse Jet of the Single Row Circular Orifice Injecting into Mainstream</i>	027-023
	1100 – 1112	Nor Amalin Keling <i>A Recent Review of Energy Recovery Ventilator on Low and High-Rise Buildings</i>	082-119
	1112 – 1124	Norsyazliana Syamira Binti Saiful Anuar , Siti Hidayah Binti Abu Talib, Nur Fatin Izureen Binti Radzaly, Syarifah Intan Najla Binti Syed Hashim, Muhammad Salleh Bin Abustan <i>The Effect of Sedimentation to the Pump Sump System by using Computational Fluid Dynamics (CFD) Model.</i>	144-161
	1124 – 1136	SHORT BREAK	
	1136 – 1148	Lim Sheh Hong , Mohd Azrul Hisham Mohd Adib, Mohd Shafie Abdullah, Radhiana Hassan <i>Qualitative and Quantitative Comparison of Hemodynamics between MRI Measurement and CFD Simulation on Patient-Specific Cerebral Aneurysm " A Review</i>	155-170
	1148 – 1200	A. G. N. Sofiah <i>Synthesis, Characterization and Modelling of Nickel Nanowires Synthesized Via Template-Assisted Electrodeposition</i>	150-162
	1200 – 1212	Nurfarah Diana Mohd Ridzuan Tan , Ir Dr Fudhail Bin Abdul Munir, Masato Mikami <i>Quantifying Heat Losses in Micro Combustor with Wire Mesh Using Numerical Simulation</i>	142-163
	1212 – 1224	Norhazwani Abd Malek , Muhammad Hydil Arief Md Razip <i>CFD Simulation of Steam Condensation in Nozzle using Different Turbulence Models</i>	066-062
	1224 - 1236	Nazlee Faisal Ghazali , Lim Ki Min <i>Transport Phenomena in Organic Solvent Nanofiltration: A Review</i>	065-063
1236 - 1248	Apri Wiyono, Dedi Rohendi , Yusep Sukrawan, Ega Taqwali Berman, Indra Mamad Gandidi, Nugroho Agung Pambudi <i>Enhancement of Syngas Production Via Co-Gasification Experimental of Renewable Densified Fuels (RDF) in an Open-Top Downdraft Fixed Bed Gasifier</i>	152-168	

	1248 – 1300	Nur Afikah Binti Khairi @ Rosli , Mohd Azrul Hisham Mohd Adib, Nur Hazreen Mohd Hasni <i>Computational Hemodynamic Study of Physiological Blood Flow on Cardiovascular Disease (CVD) " The Perspective Review</i>	156-169
--	-------------	---	---------

PARALLEL SESSION 2 (A)

ADENIUM

Chairperson: Ir Dr Fudhail Bin Abdul Munir, Dr. Ummikalsom Abidin

Technical: Wan Mohd Arif Bin Aziz Japar

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1400 – 1630	1400 – 1412	Sharin Ab Ghani <i>Oil Reclamation of In-Service Power Transformer using Fullers Earth: An Experience</i>	072-146
	1412 – 1424	Anika Zafiah Mohd Rus , Mahmud Junoh, Nur Syafikah A. S <i>Biobased Polymer Coating for Mortar Cement Filled Aggregate from Recycled Materials and Its Heat Transfer Properties</i>	068-066
	1424 – 1436	Muhammad Ariff Hanaffi Mohd Fuad , Hasan Mohd Faizal, Mohamad Muslihuiddin Razali, Zaitul Nadiah Mohamad Izal, Norhayati Ahmad, Mohd Rosdzimin Abdul Rahman, Md. Mizanur Rahman <i>Torrefaction of Densified Palm Kernel Shell with Mixture of Starch and Water as Binder</i>	002-068
	1436 – 1448	Gunawan , Yanuar <i>The Characteristic of Air Lubrication Drag Reduction on Medium Speed Vessel</i>	024-017
	1448 – 1500	Muhammad Arif Budiyanto <i>Study on the Performance Analysis on Dual Fuel Diesel Main Engine of Passenger Ship 3200 DWT</i>	071-070
	1500 – 1512	Arifah Ali , Leow Jing Shuo, Nasrudin Ismail, Ummu Sayyidah <i>Evaluation of the Prediction of Wave Pattern and Hull Performance of MTC 092 Hull Form using Commercial Software</i>	073-071
	1512 – 1524	SHORT BREAK	
	1524 – 1536	Yeu Yee Lee , Alexander Gorin <i>Two-Phase Region Effect on Film Condensation on an Inclined Plate Embedded in a Porous Medium</i>	074-072
	1536 – 1548	Simon Ewedafe <i>Parallel Domain Decomposition with Input File Affinity Method for Heat Problem with PVM</i>	075-073
	1548 – 1600	Dzullijah Ibrahim , Yusli Yaakob, Murni Alwi, Hamid Yusoff, Normariah Che Maideen, Hazim Moria <i>Indirect Evaporative Cooler using Solar Panel</i>	077-074
	1600 – 1612	Zambri Harun <i>Subsurface Vortex Control at Submersible Pump Intake Using Plate-Type Floor Splitters</i>	132-141
	1612 – 1624	Mohd Fadthul Ikmal Misnal , Norizah Redzuan, Muhamad Nor Firdaus Zainal, Norhayati Ahmad, Raja Kamarulzaman Raja Ibrahim <i>Plasma Temperature Profiles Modelling and Experimental Validation using Graphene Electrode for Steel Wire Surface Cleaning</i>	080-078
	1624-1636	Farhan Lafta Rashid <i>Numerical Simulation of Fluid Flow and Heat transfer Through Porous Media</i>	164-189

PAALLEL SESSION 2 (B)

BEGONIA

Chairperson: Dr. Ahmad Syuhada, Dr. Ilham Maulana

Technical: Ahmad Tajuddin Bin Mohammad

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1400 – 1630	1400 – 1412	Mardiana Idayu Ahmad , Mohammad Aliff Shakir, Baharin Azahari, Yusri Yusup, Mohd Firdaus Yhaya, Ali Salehabadi <i>Characterization of Raw Materials and Manufactured Binderless Particleboard from Spent Mushroom Substrate and Rubberwood Sawdust</i>	082-080
	1412 – 1424	Norshaza Atika Saidin , Ubaidullah Yashkun, Fatinnabila Kamal, Khairy Zaimi, Nor Ashikin Abu Bakar <i>Stability Analysis on Stagnation-Point Flow and Heat Transfer Towards a Permeable Shrinking Sheet with Heat Source in a Casson Fluid</i>	084-081
	1424 – 1436	Nuttamas Uppatam , C.Nuntadusit <i>Heat Transfer Characteristic for Premixed Flame Jet from Swirl Chamber</i>	023-024
	1436 – 1448	Ruslan Nogayev , Adnan Ghulam Mustafa, Fadhil Mohd Majnis, Nor Azyati Abdul Mulaib <i>Mixing in Impeller-Miniature Stirred Tank Reactor using CFD Simulation</i>	010-009
	1448 – 1500	Siti Norfazira Ramli , Mardiana Idayu Ahmad, Mohd Firdaus Yhaya <i>Characterisation of Calcium Carbonate and Its Polymorphs from Molluscan Shells of Anadara Granosa (Blood Cockle), Paphia Undulata (Surf Clam), Dosinia Exesperata (Venus Clam) and Marble</i>	082-129
	1500 – 1512	Uswah Khairuddin , Balamurugan A Gurunathan, Nazrun Nabil Azlan Shah, Ricardo Martinez-Botas <i>Influence of Double Entry Volute on Incidence Angle Variation Under Steady Flow: Numerical Investigation</i>	120-127
	1512 – 1524	SHORT BREAK	
	1524 – 1536	Kartini Ahmad , Siti Suzilliana Putri Mohamed Isa, Zahir Hanouf <i>Hall Effect on Mixed Convection Casson Fluid Flow over Exponentially Extending Sheet in Porous Media</i>	090-089
	1536 – 1548	Azridjal Aziz , Joko Harianto, Afdhal Kurniawan Mainil, Rahmat Iman Mainil <i>Comparative Assessment of Closed Loop Heat Pump Dryer and Direct Solar Dryer System for Banana Drying</i>	093-090
	1548 – 1600	Yusli Yaakob <i>Waste Heat Recovery from Car Exhaust using Thermoelectric Generator for Power Generation</i>	139-151
	1600 – 1612	Sakinah Binti Muhamad Hisham , Prof Madya Dr Kumaran a/l Kadirgama, Prof Madya Dr Devarajan a/l Ramasamy, Prof. Saidur Rahman <i>Enhancement of Tribological Behaviour and Thermal Properties of Hybrid Nanocellulose/Copper (II) Oxide Nanolubricant</i>	096-092
	1612 – 1624	Noor Iswadi Ismail , Zurriati Mohd Ali, Iskandar Shah Ishak, Rizal Mohamed Noor, Rosniza Rabilah <i>Aerodynamic Performance of Paper Planes</i>	018-013
1624-1636	Noor Syazwane Md Taib , Aya Hagishima, Waqas Khalid, Fitri Yakub, Nurul Izzati Kamaruddin <i>Preliminary Study of Occupants Thermal Sensation with Different Set-Point Temperature of Postgraduate Office with Cooling Mode in University Campus</i>	076-185	

PARALLEL SESSION 2 (C)

CANNA

Chairperson: Dr. Fazila Mohd Zawawi, Dr. Natrah Kamaruzaman

Technical: Muhammad Arif Bin Harun

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1400 – 1630	1400 – 1412	Engkos Achmad Kosasih <i>Combination of Dehumidifier, Heat Pump and Air Heater: Influence of Temperature, Specific Humidity, and Mass Flow Rate of Air on Specific Energy Consumption</i>	145-181
	1412 – 1424	Nuraini Abdul Aziz , Waritsa Intratep A/P Phon Thip <i>Performance Analysis of Vortex Cooler</i>	038-036
	1424 – 1436	Sheikh Ahmad Zaki , Fakhrizal Akbar Ilmiawan <i>Application of Flywheel Energy Storage on Generator-Set</i>	086-097
	1436 – 1448	Saidatul Sharin Shuhaimi <i>Large-Eddy Simulation on Pedestrian Wind Environment in Urban Buildings of Random Staggered Arrays</i>	103-103
	1448 – 1500	Mohd Salahuddin Mohd Basri , Khairul Manami Kamarudin, Nurul Ain Maidin, Mohd Hidayat Ab Rahman <i>Aerodynamic Drag Study of Time-Trial Cycling Helmets using CFD Analysis</i>	099-099
	1500 – 1512	Beghidja Abdelhadi , Safer Nabil Belkacem <i>The Role of Coherent Vortices in the Mixing Process of a Coaxial Jet</i>	017-100
	1512 – 1524	SHORT BREAK	
	1524 – 1536	Muhamad Aiman Bin Jalani , Nur Izzati Binti Ismail, Mohd Rashdan Bin Saad, Mohamad Faizal Bin Abdullah, Balamurugan A/L Annamalai Gurnathan, Mohd Rosdzimin Bin Abdul Rahman <i>Shape Optimization of Floating Oscillating Water Column (FOWC) for Wave Energy Converter Device</i>	101-101
	1536 – 1548	Nor Halawati Senin , Nor Fadzillah Mohd Mokhtar, Mohamad Hasan Abdul Sathar <i>Ferroconvection in an Anisotropic Porous Medium with Variable Gravity</i>	130-149
	1548 – 1600	Saud Ghani , Esmail Bialy, Ali Pakar <i>Challenges of Outdoor Cooling</i>	138-150
	1600 – 1612	Prince Joseph V. Gaban , Joel P. Rivadeneira, Katherine Ann T. Castillo-Israel, Tao Wu <i>Rheological Behaviour of Purified Pectin from Saba Banana [Musa BBB Saba (Musa Acuminata x Musa Balbisiana)] Peel Applied to Beverage</i>	135-143
	1612 – 1624	Devarajan Ramasamy <i>Wear Testing Analysis on Cylinder Head Valve for CNG Fueled Engine</i>	162-178
1624-1636	K. Kadirgama <i>Nanofluid as an Alternative Coolant in Machining: A Review</i>	158-172	

PARALLEL SESSION 2 (D)

DAHLIA

Chairperson: Dr. Sukamta, Dr. Hendra Wijaksana

Technical: Muhammad Ridhwan Bin Mohd Roslan

TIME	PRESENTATION TIME	AUTHOR & TITLE	ID NUMBER
1400 – 1630	1400 – 1412	Agus Maman Abadi , Aditya Wisnugraha Sugiyarto, Hihin Vita Amalia <i>Prediction of Water Saturation using Fuzzy Logic</i>	105-108
	1412 – 1424	Warjito , Rhesa Giovani <i>The Effect of Downcomer Depth Variation With Air Entrainment Process on Vertical Plunging Water Jet With a Height of 28 Cm on the Water Surface.</i>	106-110
	1424 – 1436	Mohd Amin Mahd Asri , Ahmad Rasdan Ismail, Raemy Md Zein, Ismail Abdul Rahman <i>Application of Computational Fluid Dynamic Simulation for the Study of Heat Stress and Heat Strain- A Review</i>	134-142
	1436 – 1448	Nurul Farahain Mohammad , Nor Raihan Mohamad Asimoni, Abdul Rahman Mohd Kasim, Sharidan Shafie <i>Unsteady MHD Mixed Convective Flow of Buongiorno's Nanofluid in a Lid-Driven Cavity with Heat Generation and Chemical Reaction Effects</i>	131-140
	1448 – 1500	Yazan S. M. Alterazi <i>On-Design Operation and Performance Characteristic of Custom Engine</i>	129-138
	1500 – 1512	Dr. Norazaliza Mohd Jamil <i>Heat Transfer Model in a Rotary Drum during the Fermentation</i>	154-166
	1512 – 1524	SHORT BREAK	
	1524 – 1536	Muhammad Muzzammil Bin Shahabudin , Al Emran Bin Ismail <i>Application of Computational Fluid Dynamic Method (CFD) on Solar Still: A Review</i>	126-136
	1536 – 1548	Thantup Nontula , N. Kaewchoothong, C. Nuntadusit <i>Effect of Channel Rotation Speed on Heat Transfer Characteristics of Impinging Jets</i>	034-031
	1548 – 1600	Sidra Aman , Zulhibri Ismail, Mohd. Zuki Salleh, Ilyas Khan <i>Magnetohydrodynamic Flow of Maxwell Nanofluid over a Vertical Plate in a Porous Medium</i>	123-134
	1600 – 1612	Norazam Arbin , Shafaruniza Mahadi, Farah Suraya Md Nasrudin, Noor Syazana Ngarisan <i>Visualization of Heat Transfer via Heatlines and Entropy Generation for Marangoni Convection in an Open Top Rectangular Cavity</i>	057-056
	1612 – 1624	Arina Sauki , Putri Nadzrul Faizura Megat Khamaruddin, Sonny Irawan, Imros Kinif, Syahrir Ridha <i>Statistical Relationship of Drilled Solid Concentration on Drilling Mud Rheology</i>	113-120
	1624-1636	Shahanaz Parvin , Siti Suzilliana Putri Mohamed Isa, Norihan Md. Arifin, Fadzilah Md Ali <i>Dual Numerical Solutions on Mixed Convection Casson Fluid Flow due to the Effect of the Rate of Extending and Compressing Sheet "Stability Analysis</i>	089-088

INTERNATIONAL COMMITTEE MEMBERS

DR. MOHD RADZI ABU MANSOR, UNIVERSITI KEBANGSAAN MALAYSIA, MALAYSIA
MOHAMMED W. MUHIELDEEN AL-GAILANI, UCSI UNIVERSITY, MALAYSIA
PROFESSOR HASAN KOTEN, ISTANBUL MEDENIYET UNIVERSITY, TURKEY
ASSOC. PROF. DR. KAHAR OSMAN, UNIVERSITI TEKNOLOGI MALAYSIA, MALAYSIA
ASSOC. PROF. DR. M'HAMED BERIACHE, HASSIBA BENBOUALI UNIVERSITY OF CHLEF, ALGERIA
AINAA MAYA MUNIRA ISMAIL, UNIVERSITI TEKNOLOGI MARA, MALAYSIA
DR. HASLINA AHMAD, UNIVERSITI PUTRA MALAYSIA, MALAYSIA
PROFESSOR IR. DR MOHD SAPUAN SALIT, UNIVERSITI PUTRA MALAYSIA, MALAYSIA
DR. NORAZLIANIE SAZALI, UNIVERSITI MALAYSIA PAHANG, MALAYSIA
DR. WAN AZANI WAN MUSTAFA, UNIVERSITI MALAYSIA PERLIS, MALAYSIA
DR. FUDHAIL BIN ABDUL MUNIR, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, MALAYSIA
DR. AHMAD ZAHRAN MD KHUDZARI, UNIVERSITI TEKNOLOGI MALAYSIA, MALAYSIA
ANDRIYANTO SETYAWAN, POLITEKNIK NEGERI BANDUNG, INDONESIA
DENDY ADANTA, UNIVERSITAS SRIWIJAYA, INDONESIA

4TH IS-FMTS 2019 ORGANISATION

CHAIRMAN

ASSOC. PROF. DR. NOR AZWADI CHE SIDIK

SECRETARY

SITI NURUL AKMAL BINTI YUSOF

REGISTRATION

SITI NURUL AKMAL BINTI YUSOF

DR. ROZANTI BINTI A. HAMID

HAFIZAH BINTI A. HAMID

WEBSITE, POSTER & MONTAGE

AHMAD TAJUDDIN BIN MOHAMMAD

WAN MOHD ARIF BIN AZIZ JAPAR

MUHAMMAD ARIF BIN HARUN

CERTIFICATE

HAFIZAH BINTI A. HAMID

PUBLICATION

MUHAMMAD RIDHWAN BIN MOHD ROSLAN

AIN ATHIRAH BINTI ROZALI

MUHAMMAD ARIF BIN HARUN

FACILITY & TECHNICAL

MUHAMMAD RIDHWAN BIN MOHD ROSLAN

MUHAMMAD ARIF BIN HARUN

WAN MOHD ARIF BIN AZIZ JAPAR

AHMAD TAJUDDIN BIN MOHAMMAD

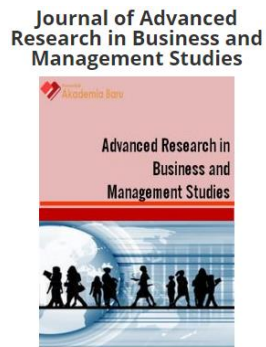
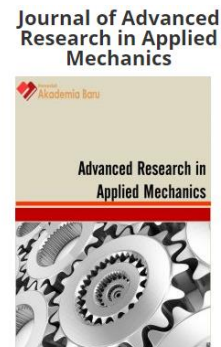
SECRETARIAT

SYAZWAANA BINTI MOHD NOOR

NOOR FARHANA BINTI ABDUL RAHIM

INTRODUCTION OF AKADEMIA BARU

The Akademia Baru Publishing (M) Sdn Bhd (previously known as Penerbit Akademia Baru) was founded in March 2014 as an independent scholarly press specializing in organizing conferences and publishes academic reports.




<http://www.akademiabaru.com/journal.html>



4th International Symposium on Fluid Mechanics and Thermal Sciences (4th IS – FMTS)

14th December 2019

 Palm Garden Hotel IOI Resort City, Putrajaya,
Malaysia



All accepted papers
will be published in
SCOPUS indexed
journal

4th INTERNATIONAL SYMPOSIUM ON FLUID MECHANICS AND THERMAL SCIENCES (4th IS-FMTS)

PALM GARDEN HOTEL IOI RESORT CITY, PUTRAJAYA
MALAYSIA

14th DECEMBER 2019

Full papers are invited for the 4th International Symposium on Fluid Mechanics and Thermal Sciences (4th IS-FMTS) to be held at Palm Garden Hotel IOI Resort City, Putrajaya, Malaysia on 14th December 2019.

All accepted papers will be published in SCOPUS indexed journal.



MYCITE
malaysian citation index

