

**THE 10TH ASIAN INTERNATIONAL CONFERENCE ON FLUID MACHINERY (10TH AICFM)
21 - 23 OCTOBER 2009 BERJAYA | TIMES SQUARE HOTEL & CONVENTION CENTRE, KUALA LUMPUR**

20 October 2009 (Tuesday) Venue: Foyer Manhattan I			
8.00pm-10.00pm	Pre-Registration		
Day-1 : 21 October 2009 (Wednesday) Venue: Manhattan I			
8.00am-9.00am	Registration		
9.00am-9.05am	Welcoming Remark by Assoc. Prof. Mazlan Abdul Wahid, Chairman of the 10 TH AICFM Organizing Committee		
9.05am-9.15am	Welcoming Address by Prof. Shin-Hyoung Kang, Chairman of Asian Fluid Machinery Committee (AFMC)		
9.15am-10.00am	KEYNOTE ADDRESS 1 <i>“Advanced Technologies for Turbomachinery to Utilize Effectively Renewable Energies at Offshore”</i> Professor Toshiaki Kanemoto <i>Kyushu Institute of Technology, Japan</i>		
10.00am-10.30am	Tea break		
10.30am-11.15am	KEYNOTE ADDRESS 2 <i>“Fluid Machinery Vibration Problems, Failures and Solutions – A Review with Some Case Studies”</i> Professor Ir.Mohd Salman Leong <i>Director, Institute of Noise & Vibration (IKG), Universiti Teknologi Malaysia</i>		
11.15am-12.00pm	KEYNOTE ADDRESS 3 <i>“Selection Operation & Maintenance of Pump in Water Supply”</i> Ir. Hj. Zainuddin Md Ghazali <i>General Manager Operations, SAJ Holdings Sdn Bhd, Malaysia</i>		
12.00pm-1.15pm	Parallel Session 1		
	SESSION 1A (Venue:Manhattan I) <i>Theme: Fluid Dynamics of Fluid Machinery</i> Chairman: Prof. Beyong Rog Shin (Changwon National Univ.) Prof. Salman Leong (UTM)	SESSION 1B (Venue: Bronx V) <i>Theme: Monitoring and Diagnosis</i> Chairman: Mr. S. Takita (Ebara) Ir Hj. Zainuddin (SAJ)	SESSION 1C (Venue: Bronx VI) <i>Theme: Pump</i> Chairman: Prof. T. Kanemoto (Kyutech) Dr. Syahrullail (UTM)
	Paper ID 65: Counter-top thermoacoustic refrigerator- An experimental investigation	Paper ID 74: A Study on evacuation Performance of Siphon-Type Water Closets	Paper ID 72: Effect of J-Groove on the Axial Thrust in Centrifugal Pump
	Paper ID 69: Preliminary response analysis of UTHM 'S ROVs	Paper ID 83: Auto Detection for high level water content for oil well	Paper ID 79: Study on Operation Optimization of Pumping Station's 24 Hours Operation under Influences of Tides and Peak-Valley Electricity Prices

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	Paper ID 119: Effect of guide vane in ring groove arrangement for a small turbocharger	Paper ID 86: Experimental study on leakage flow in labyrinth seals with asymmetric geometries	Paper ID 82: Development and optimized design of propeller pump system & structure with VFD in low-head pumping station
	Paper ID 134: Basic Characteristics of Autorotating Flat Plate in Flow	Paper ID 110: Flow characteristics in scroll casing of sirocco fan	Paper ID 88: Numerical simulation of tubular pumping systems with different regulation methods
	Paper ID 136: Numerical and Experimental Study on Aerodynamic Characteristics of Basic Airfoils at Low Reynolds Numbers	Paper ID 128: Cleaning and heat transfer in heat exchanger with circulating fluidized bed	Paper ID 89: Optimal operation of variable speed pumping system in the eastern route of S-to-N water diversion project
1.15pm-2.00pm	Lunch (Venue: Manhattan III)		
2.00pm-3.15pm	Parallel Session 2		
	SESSION 2A(Venue: Manhattan I) Theme: Fluid Dynamics of Fluid Machinery Chairman: Prof. H. Zhu (Yangzhou Univ.) Prof. Amer Nordin (UTM)	SESSION 2B(Venue:Bronx V) Theme: Monitoring and Diagnosis Chairman: Dr.T.Shigemitsu (Tokushima Univ.) Prof. Mazlan Wahid (UTM)	SESSION 2C(Venue: Bronx VI) Theme: Pump Chairman: Prof. Afifi (UTM)
	Paper ID 217: Numerical simulation of fluid flow and filtration efficiency in centrifugal oil purifier	Paper ID 190: Experiments on combustion kernel growth in gaseous explosions	Paper ID 102: Study of impeller design for pipe flow generator with CFD and RP
	Paper ID 155: A DNS investigation of Non-Newtonian turbulent open channel flow	Paper ID 197: Time domain analysis of acoustic emission signal for internal surface roughness classification	Paper ID 112: Study on performance and internal flow condition of mini turbo pump
	Paper ID 164: Numerical calculation for whirling motion of a centrifugal blood pump with cinical spiral groove bearings	Paper ID 204: Performance of diesel engine using blended crude Jatropha oil	Paper ID 122: Design optimization of mixed flow pump impellers and diffusers in a fixed meridional shape
	Paper ID 166: Thermoacoustic refrigerator's stack optimization	Paper ID124: Duct water current turbine and extremely low head turbine helical type with boundary layer control	Paper ID 150: Research on optimal operation by adjusting blade angle in Jiangdu no. 4 pumping station
	Paper ID 168: The effect of lubricant viscosity in high pressure forming	Paper ID 209: An investigation of the water flow past the butterfly valve	Paper ID 157: Proposal of unique process pump with floating type centrifugal impeller (preliminary report: Axial thrust impeller with driving shaft)
3.15pm-4.15pm	Opening Ceremony Officiated by: YB Datuk Peter Chin Fah Kui <i>Minister of Energy, Green Technology and Water Malaysia</i> (Venue: Manhattan I)		

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4.15pm-4.30pm	Tea Break		
4.30pm-5.45pm	Parallel Session 3		
	SESSION 3A(Venue:Manhattan I) <i>Theme: Fluid Dynamics of Fluid Machinery</i> Chairman: Dr.D.Sakaguchi (Nagasaki Univ) Prof. Hayati (UTM)	SESSION 3B(Venue: Bronx V) <i>Theme: Monitoring and Diagnosis</i> Chairman: Prof. R. Zhang (Yangzhou Univ.) Dr.Syahrullail (UTM)	SESSION 3C(Venue:Bronx VI) <i>Theme: Pump</i> Chairman: Prof. A. Furukawa (Kyushu Univ.) / Dr.Jamaluddin (UTM)
	Paper ID 178: Numerical analysis for structural safety evaluation of butterfly valves	Paper ID 213: A two phase flow analyses in rotory dryer with agitator	Paper ID 159: Counter-rotating type pump unit (rotational behaviors)
	Paper ID 222: Optimization of a circular microchannel with entropy generation minimization method	Paper ID 216: Evaluation of aircraft wing-tip vortex using PIV	Paper ID 192: Inducer design to avoid cavitation instabilities
	Paper ID 187: Numerical investigation of plain fin and round tube heat exchanger under frost condition	Paper ID 220: Numerical solution of hydrodynamics lubrications with non-Newtonian fluid flow	Paper ID 198: Analysis of variable speed optimization operation effect of different type pumps in Jiangdu pumping station
	Paper ID 196: Investigation of flow field in bent duct	Paper ID 221: Pressure analysis in point contact for elastohydrodynamic lubrication	Paper ID 202: Numerical simulation of centrifugal pump with double suction impeller
	Paper ID 203: Parametric Study for Optimal Design of a Piping System in a Serially Connected Multi-Stage Turbo Blower	Paper ID 80: Pressure Variation at Load Rejection of Bulb Turbine With a Long Penstock and Its Hydrographic Model Test	Paper ID 135: Unsteady and Three-Dimensional PTV Measurements of Flow Structure in a Suction Sump
8.00pm - 9.30pm	Dinner/Banquet (Venue: Manhattan III)		

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Day-2 : 22 October 2009 (Thursday)
Venue: Manhattan I

9.00am-9.45am	KEYNOTE ADDRESS 4 “On the Development of Concave Surface Boundary Layer Flows” Professor Dr. Winoto S H <i>National University of Singapore</i>		
9.45am-10.00am	Tea break		
10.00am-11.30am	Parallel Session 4		
	SESSION 4A(Venue:Manhattan I) Theme: Renewable Energy I Chairman: Prof.H.Tsukamoto (Kyushu I. T) Prof.Afifi (UTM)	SESSION 4B(Venue: Bronx V) Theme: Flow Meters and Valves Chairman: Prof.Wu Yulin (Tsinghua Univ.) Dr.Jamal (UTM) Prof. Wan Ali (UPNM)	SESSION 4C(Venue:Bronx VI) Theme: Compressors Chairman: Prof. Winoto (NUS) Dr.Kahar (UTM)
	Paper ID 63: Sustainable rural energy: traditional water wheel in Padang Indonesia	Paper ID 71: Diagnostic flow metering using ultrasound tomography	
	Paper ID 76: Towers for offshore wind turbines	Paper ID 92: Effect of flow characteristics in the downstream of Butterfly valve on the flow rate measurement using Venturi tube	Paper ID 165: The effect of rotor blade speed to the best efficiency point of single stage axial flow compressor
	Paper ID 113: Wood combustion behavior in a fixed bed combustor	Paper ID 106: Comparison test and its evaluation of flow meters for heat meter	Paper ID 188: flow structure of a centrifugal compressor due to a curved duct by using PIV
	Paper ID 115: Limitations of commercializing fuel cell technologies	Paper ID 107: A study on the test method of the thermal mass flow meter	Paper ID 199: Design of a CO ₂ twin rotary compressor for a heat pump water heater
	Paper ID 120: Innovative power - augmentation guide vane design of wind solar hybrid renewable energy harvester for urban high rise application	Paper ID 111: Effects of upstream turbulence on measurement uncertainty of flow rate by Venturi	Paper ID 205: Flow and performance calculations of axial compressor near stall margin
	Paper ID 233: Suitability of using the accelerometer for impulse measurement of a pulse combustion tube	Paper ID 177: An Investigation of the Water Flow past the Butterfly Valve	Paper ID 227: Integrated Portable Air-conditioning System
11.30am-11.45am	BREAK		
	Parallel Session 5		
11.45am – 1.30pm	SESSION 5A(Venue:Manhattan I) Theme: Renewable Energy II Chairman: Prof.J.Matsui (Yokohama Univ.) Prof. Amer (UTM)	SESSION 5B(Venue:Bronx V) Theme: High Efficiency and Low Noise Fans Chairman: Prof. K.Y.Kim(Inha Univ.) Prof. Wan Ali (UPNM)	SESSION 5C(Venue:Bronx VI) Theme :CFD Chairman: Prof. Y.D.Choi (Mokkpo National Univ.) / Dr. Kahar (UTM)
	Paper ID 131: Flow characteristics in an augmentation channel of a direct drive turbine for wave power generation	Paper ID 95: A Preliminary axial fan design method with the consideration of performance and noise characteristics	Paper ID 75: Radiation effects on free convection flow past an impulsively Started infinite vertical plate with ramped wall temperature and constant mass diffusion
	Paper ID 172: Numerical hydraulic study on cooling water circuit of independent water and power plant	Paper ID 96: Performance characteristic on 4-turbo blowers connected in serial and controlled by inverter	Paper ID 93: Preliminary theoretical study of the formation and growth of droplets in nucleating flows

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	Paper ID 183: Combustion performance and exhaust emission of diesel engine using various sources of waste cooking oil	Paper ID 97: Design optimization of an axial fan blade through multi- objective evolutionary algorithm	Paper ID 105: Modelling of air bubble rising in water and polymeric solution
	Paper ID 193: Study on the performance of helical savonius rotor for wave energy conversion	Paper ID 98: Design of side channel type regenerative blower	Paper ID 118: Large eddy simulation of the dynamic response of an inducer to flow rate fluctuations
	Paper ID 212: Conceptual design of 100kW energy integrated type bi-directional tidal current turbine	Paper ID 99: Performance improvement of high speed jet fan	Paper ID 140: Study of plume behavior from a two heated cylinders at high Rayleigh number using lattice Boltzmann method
	Paper ID 219: Numerical analysis of flow and heat in variable angle slider bearing	Paper ID 100: Aerodynamic design of slim and high-efficient turbo-fan	Paper ID 144: Cubic interpolated pseudo particle lattice Boltzmann method for simulation of natural convection heat transfer in an enclosure
	Paper ID 211: A new current power generating system	Paper ID 101: Flow characteristics with variations of cut-off angle of multi-blade fan for ventilation	Paper ID 201: Numerical dynamic simulation of optimized cross-flow heat exchanger with various refrigerant
1.30pm – 2.30pm	Lunch (Venue: Manhattan III)		
2.30pm – 6.00pm	Tour		

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Day-3 : 23 October 2009 (Friday)		
Venue: Manhattan I		
9.00am-10.15am	Parallel Session 6	
	SESSION 6A (Venue:Manhattan I) Theme: Hydro Turbine Chairman: Prof. J. Cheng (Yangzhou Univ.) Prof.Amer (UTM)	SESSION 6B (Venue:Bronx V) Theme: Gas and Steam Turbines & Jet Technology Chairman: Prof. Chan Lee (Inha Univ.) Prof.Mazlan (UTM)
	Paper ID 60: Trash diverter orientation angle optimization at run-off river type hydro-power plant using CFD	Paper ID 146: Nonlinear aeroelastic analysis of 3D a MW-class wind turbine blade using CFD and CMBD coupling method
	Paper ID 84: Simulation of the Francis turbine and CAD used to optimize the runner design based on empirical correlation	Paper ID 225: Development of air supply system for gas turbine combustor test rig
	Paper ID 109: Simulations of blade angle effects on egat - micro hydro turbine	Paper ID 226: Development of a small gas turbine combustor
	Paper ID 181: Design and performance analysis of turbine for 100k wotec plant	Paper ID 121: Numerical investigation on the separated flow of axial flow stator in diagonal flow fan
	Paper ID 208: Development of new remaining life estimation method for main parts of hydro-turbine in hydro-electric power station	Paper ID 171: Effect of stand -off distance on impact pressure of high speed liquid jets
10.15am-10.30am	TEA BREAK	
	Parallel Session 7	
10.30am – 12.00pm	SESSION 7A (Venue:Manhattan I) Theme: CFD Chairman: Prof. Masoud Khan (Queensland Univ.) / Prof.Hayati (UTM)	SESSION 7B (Venue:Bronx V) Theme: Miscellaneous Chairman: Prof. H. Hayashi (Nagasaki Univ.) Dr. Nor Azwadi (UTM)
	Paper ID 148: Analyzing the effect of free stream turbulence on gaseous non premixed flames	Paper ID 167: Three dimensional numerical analysis of laminar heat exchanger considering fin shape and fan performance characteristics
	Paper ID 223: A CFD study on aerodynamic characteristics of a middle wing for WIG Catamaran during ground effect	Paper ID 127: Heat/mass transfer measurement on the tip surface of rotor blade with square rim
	Paper ID 228: The development of duct for a horizontal axis turbine using CFD	Paper ID 214: Performance characteristics on a partially admitted small radial-typed turbine
	Paper ID 229: CFD approach to investigate the flow characteristics in bi-directional ventilated brake disc	Paper ID 224: Spray pattern analysis for a pressure-swirl atomizer with four different nozzle configurations using Eulerian-DPM multiphase approach

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	Paper ID 230: Simulation of natural convection heat transfer in an inclined square cavity with perfectly conducting side walls using finite different approach	Paper ID 235: Numerical investigation of shallow lid-driven cavity flow by the constrained interpolated profile lattice Boltzmann method	
	Paper ID 232: Secondary flows in curved rectangular ducts with diminishing cross section	Paper ID 108: Numerical simulation of slinger combustor using 2-D axisymmetric computational model	
12.00pm – 12.30pm	Closing Ceremony		
12.30pm	End of Conference		