

**May 7, 2017**

18:00 **Hotel Moon Beach**  
19:00 **Registration**

19:00 **Hotel Moon Beach**  
21:00 **Welcome reception**

May 8, 2017

Registration

Opening ceremony

**Keynote Lecture: Prof. Kazuyoshi MIYAGAWA**  
**School of Fundamental Science and Engineering, Waseda University**  
**Grasp of Unsteady Flow in Radial Turbomachines by Experimental and Computational Approaches**

Coffee Break

	Room A	Room B	Room C	Room D
	Wind flows	CFD, Turbines and Fans	Ocean Energy and Turbines	Multi phase and Interface Flow 1
11:00 11:20	ISAIF-S-0120 Wind Velocity Flow Field Tomography Incorporating CFD Data via Proper Orthogonal Decomposition Shanxun Sun, Jing Liu, Shi Liu	ISAIF-S-0070 Research on the flow characteristics of opening unit in the rotor spinning unit Yuzhen Jin, Shihe Zhu, Jingyu Cui, Yingzi Jin	ISAIF-S-0028 Effect of pitch angle of blades on performance of tandem propellers in bidirectional type tidal stream power unit Nak-Joong Lee, Toshiaki Kanemoto, Bin Huang and Jin-Hyuk Kim	ISAIF-S-0149 Dropwise condensation modeling for Cassie morphology droplets on superhydrophobic nanostructured surfaces Kaixin Meng, Hao Wang
11:20 11:40	ISAIF-S-0030 Experimental Research of Flapping Type Wind Turbine with Chebyshev-Dyad Linkage M. S. Alama, H. Hirahara	ISAIF-S-0046 Numerical Investigation of a Generic Centrifugal Fan Johannes Walter, Florian Trimborn, Balazs Pritz and Martin Gabi	ISAIF-S-0064 Numerical Experiment on Performance of Wells Turbine with Booster Manabu Takao, Haruka Katsube, Seisuke Fukuma, M. M. A. Alam, Akiyasu Takami, Toshiaki Setoguchi	ISAIF-S-0155 Numerical Analysis of Gas and Liquid Mixing inside a Stirred Tank with Exothermic Reaction and Heat Transfer Jing Feng, Nahmkeon Hur, Taejun Ok
11:40 12:00	ISAIF-S-0024 Investigation of Horizontal Axis Wind Turbine Performance in Simulated Natural Wind by an Active Control Multi-Fan Wind Tunnel Kazuhiko TOSHIMITSU, Takahiko NARIHARA and Hironori KIKUGAWA	ISAIF-S-0139 Aerodynamics Performances of Purge Flow Injecton by the Effect of Slot Positions and Orientations in Linear Cascade of High-Pressure Turbine W Ghopa Wan Aizon, Mohd Radzi Abu Mansor, Wan Fathul Hakim W. Zamri, Ken-ichi Funazaki	ISAIF-S-0066 A Counter-rotating Impulse Turbine for Wave Energy Conversion Manabu Takao, Kohei Yamada, Shinya Okuhara, M. M. A. Alam Yoichi Kinoue, Toshiaki Setoguchi	ISAIF-S-0103 Application of Filling Analysis by the Method of Characteristics to Pipeline Design HIDETO YOSHIMURA, KEI TAKAMUKU & TAKASHI MANABE
12:00 12:20	ISAIF-S-0019 CFD and BEM Simulation of Horizontal Axis Wind Turbine Characteristics Masami Suzuki, Michael Sakala and Kazumasa Ameku	ISAIF-S-0090 Numerical Approach Dedicated to Nozzle Tip Clearance Flow Analysis in Variable Geometry Radial Turbines Pierre Thomas Lauriau, Nicolas Binder, Xavier Carbonneau, Sandrine Cros and Mathieu Roumeas	ISAIF-S-0013 Experimental Research on Efficiency in a Fixed oscillating Water Column-Type Wave Energy Converter with Generator Tengen Murakami, Yasutaka Imai, Shuichi Nagata, Manabu Takao, Toshiaki Setoguchi	ISAIF-S-0112 Flow Characteristics and Separation Performance in a Hemispheric Head Cyclone Separator Mizue MUNEKATA, Akimasa NARITA, Go KITAMURA, Hiroyuki YOSHIKAWA, Kenji ONO, Takahashi WATANABE

Lunch

	CFD and Turbines	Scram jet and Isolator	PIV and Visualization	Fluid machinery
13:40 14:00	ISAIF-S-0086 Simulation of a Transonic Axial Compressor using the Harmonic Balance Method Franco Magagnato, Meng Wang and Zhongji Wang	ISAIF-S-0145 One-dimension model study of dynamic characteristics of tube with high temperature endothermic hydrocarbon fuel at pyrolysis condition Bin Yu, Wen Bao, Jiang Qin	ISAIF-S-0060 Visualization investigation on flowing condensation in horizontal small channels with liquid separator Zhang Xuan, Jia Li	ISAIF-S-0137 Numerical and experiment investigations of gas-liquid two-phase flow in inducer Cui Baoling*, Wang Pei, Li Xiaojun, Zhu Zuchao, Jin Yingzi
14:00 14:20	ISAIF-S-0017 Numerical Investigation of Diffuser Stall Structure in a Centrifugal Compressor with Vaned Diffuser Nobumichi FUJISAWA, Yutaka OHTA	ISAIF-S-0144 Mathematical Study on Distribution Feature of Endothermic Hydrocarbon Fuel Li Haowei, Qin Jiang, Bao Wen	ISAIF-S-0076 A study on flow structure around a bridge beam and behavior of sea water mist Masaaki Ishikawa	ISAIF-S-0091 Theoretical studies on dynamic performances of liquid annular seals with herringbone grooves Zhai Lulu, Zhu Zuchao, Li Yi and Guo Jia
14:20 14:40	ISAIF-S-0085 Numerical Research on Internal Flow Characteristics of Tip Clearance in Axial Compressor Qu Yonglei, Sun Tao, Pietro Zunino	ISAIF-S-0143 The Effect of Film cooling on the Performance of Scramjet Isolators Jiang Qin a, Silong Zhang a, Kuan Zheng a, Yu Fenga, Juntao Chang a, Wen Baoa, Jiechai Hanb	ISAIF-S-0136 Analysis of the statistical properties and dynamics evolution of the by-pass transition process under LPT-like adverse pressure gradient M. Dellacasagrande R. Guida D. Lengani D. Simoni M. Ubaldi P. Zunino	ISAIF-S-0039 Performances Depending on Two Types of Boss for Axial Flow Cyclone Dust Collector Akira OGAWA, Yasuyuki MATUKAWA
14:40 15:00	ISAIF-S-0146 Investigation and Verification of the Aerodynamic Performance of a Certain Fan/Booster with Throughflow Method Liu Xiao-heng, JIN Dong-hai, GUI Xing-min	ISAIF-S-0075 Effect of Grooved Wall on Pseudo Shock Waves in a Circular Duct Vignesh Ram P S1, M. Yaga and H.D. Kim1	ISAIF-S-0122 Large-Scale Vortex Behavior of Reattaching Flow Field in Low Reynolds Number Turbulent Flow Region Isao Teruya	ISAIF-S-0010 Investigation of Performance of a Kaplan Turbine Ryoichi S. Amano

Coffee break

	Turbine and Compressor	Shock wave and Boundary layer	Measurements and Diagnosis	Multi physics
15:15 15:35	ISAIF-S-0012 EFFECTS OF DIFFERENT INSTALLMENT POSITIONS OF AIRFOIL-PROBES ON THE FLOW FIELD OF A COMPRESSOR CASCADE Chao Jin, Hongwei Ma	ISAIF-S-0072 Hysteretic Behaviors of Shock Wave in a Supersonic Wind Tunnel Ik In Lee, Toshiaki Setoguchi, Minoru Yaga and Heuy Dong Kim	ISAIF-S-0083 Various Flows inside a Suction Sump based on 3D-PTV measurement Akira Morita, Tsuyoshi Maeda and Katsuya Hirata	ISAIF-S-0123 Multi-Physics Simulation of Particulate Erosion Phenomena using One-Way and Two-Way Coupling Masaya Suzuki, Takaaki Hataya, Hiroya Mamori, Naoya Fukushima, Makoto Yamamoto
15:35 15:55	ISAIF-S-0118 Effect of Double Air Injection on Instability Phenomena in Centrifugal Compressor(Influence on the circumferential position of the injection nozzle) Toshiyuki Hirano, Tatsuya Ogawa and Hoshio Tsujita	ISAIF-S-0088 Laminar-Turbulent Transition Tripped by Step on Transonic Compressor Profile Piotr Doerffer, Pawel Flaszynski, Ryszard Szwaba, Piotr Kaczynski, Michal Piotrowicz	ISAIF-S-0151 Research on Fault Diagnosis for Gas Pressure Regulator Based on RBF Neural Network and Improved Wavelet Packet Li Xiaoxi, Hao Xuejun, Zhao Xin, Liu Xuhai	ISAIF-S-0035 Numerical research on two-phase flow and erosion characteristic of axial compressor Haiou SUN, Meng WANG, Zhongyi WANG, Feng QU
15:55 16:15	ISAIF-S-0049 Optimization of the hub section for ultra long steam turbine rotor blade Jindřich Hála, Martin Luxa, David Šimurda, Marek Bobčík, Ondřej Novák, Jaroslav Synáč, Bartoloměj Rudas	ISAIF-S-0110 Large Eddy Simulation of Pseudo-Shock Wave in a Rectangular Duct Ruoyu Dengand Heuy Dong Kim	ISAIF-S-0141 Tomographic measurement corrected by accurate data at individual points Mengyuan Wang, Shi Liu, Jing Liu and Shanxun Sun	ISAIF-S-0078 The Research on Compressor Performance Degradation Caused by Surface Roughness Enlargement due to Corrosion in Marine Environments SUN Haiou, Ma Jingyuan, Wang Zhongyi, Wang Meng
16:15 16:35	ISAIF-S-0033 An experimental description of the flow in a centrifugal compressor from alternate stall to surge Victor Moëgne-Loccoz, Isabelle Trébinjac, Emmanuel Benichou, Sébastien Goguy, Benoit Paoletti, Pierre Laucher	ISAIF-S-0119 Numerical Simulations of Transonic Diffuser Flow with Shock Waves Shota GOTO, Kazunori KUBO, Shinichiro NAKAO, Daisuke ONO, and Yoshiaki MIYAZATO	ISAIF-S-0147 A working standard for the measurement of high pressure gas flow up to 2.5 MPa based on turbine flowmeters Zhang Han, Li Jia, Li Chun-hui, Cui Li-shui	ISAIF-S-0099 Numerical prediction of erosion in a semi-open gate valve based on CFD-DEM method Zhe Lin, Yifan Zhang, Chuanjing Ma and Zuchao Zhu
16:35 16:55	ISAIF-S-0032 Unsteady Performance of a Turbo-compressor during Surge Antoine Godard, Isabelle Trébinjac, Sébastien Goguy, Pierre Laucher	ISAIF-S-0121 Effect of Jet Vortex Generators on Shock Wave Induced Separation on Gas Turbine Blade Pawel Flaszynski, Piotr Doerffer, Michal Piotrowicz	ISAIF-S-0152 Real Time Measurements on Temperature and Concentration Distributions inside an Engine by Two-Ratios-of-Three-Peaks Algorithm of CT-TDLAS Doowon Choi, Gyongrae Cho, Yohsihiro Deguchi, Joonhwan Shim, Deoghee Doh	

May 9, 2017

9:00  
10:20

**Keynote Lecture: Prof.Prof. Jia Li,**  
**Institute of Thermal Engineering, School of Mechanical, Electronic and Control Engineering,**  
**Beijing Jiaotong University**  
**Investigation on lithium-ion battery thermal**  
**management based on flow boiling in small channels**

10:20  
10:30

**Break**

	Room A	Room B	Room C	Room D
	<b>Fans and Unsteady flow</b>	<b>Micro, Nano Flow with various Forces</b>	<b>Injector and Mixing</b>	<b>Multi phase and Interface Flow 2</b>
10:30	ISAI-F-S-0047	ISAI-F-S-0074	ISAI-F-S-0092	ISAI-F-S-0069
10:50	Investigation of the performance of a fan-diffuser-silencer configuration for thermal power station application Johannes Walter, Carina Schäfer, Dieter Wurz and Martin Gabi	Validation of applicability of classical mixing rule in a van der Waals type equation of state for oxygen-hydrogen mixture system Ryuji TAKAHASHI, Nobuyuki TSUBOI, Takashi TOKUMASU, Shin-ichi TSUDA	Study on Mixing Process of Diesel jets with Short Injection Duration Long Liu, Bo Liu, Changfu Han and F. A. Magagnato	Wear analysis of a centrifugal pump due to particle-water flow Yi Li , Jialiang Xiang, Xiaojun Li, Mi Xia, Yingzi Jin
10:50	ISAI-F-S-0040	ISAI-F-S-0134	ISAI-F-S-0102	ISAI-F-S-0117
11:10	The impact of BPF modulation by periodic pressure fluctuations on axial flow fan noise. Tomáš Hofer, Lukáš Posekaný, Kamil Úradník	A new computational method for study of charged micro & nano -flows Yunxiao Zhang, Qingfei Fu, Lijun Yang, Chaojie Mo, Shaoqing Zhang	Effects of opening distance and pintle tip angle on Cryogenic Spray from a Pintle injector Keonwoong Lee , Min Son, Dongsoo Shin, Bongchul Shin and Jaye Koo	Flow Characteristics of a Drop of Liquid on a Starting Rotating Disk under Orbital Motion Mizue MUNEKATA, Takaomi UTATSU, Misaki KAN, Hiroyuki YOSHIKAWA
11:10	ISAI-F-S-0142	ISAI-F-S-0132	ISAI-F-S-0126	ISAI-F-S-0101
11:30	Improvement of motor external fan with response surface method Hidechito Hayashi	Influence of Magnet force on the flow stability in a square duct Rahman Anisur, Wenqian Xu, Kunhang Li, Hua-Shu Dou	LES Analysis of Flow Structure and Combustion Characteristics in a Swirl Burner of Gas Turbine Fan Zhang, Tao Liu, Mingyang Ma, Fuqing Bai, Qing Du, Zhijun Peng	Study of the gas-solid two phase regulation performance of the V-shaped ball valve Lin zhe, Ma Chuangjing, Zhang Yifan, Zhu Zuchao
11:30	ISAI-F-S-0127	ISAI-F-S-0054	ISAI-F-S-0130	ISAI-F-S-0108
11:50	Study of flow instability in high-speed turbo pump at low flow rate based on energy gradient method Kunhang Li, Xiaoping Chen, Hua-Shu Dou, Lulu Zheng, Zuchao Zhu	THE INVESTIGATION OF CONTACT ANGLE ON DIFFERENT MICROSTRUCTURE SURFACES PRODUCED BY PIII TECHNOLOGY Runhua yang, Lixin Yang, Chaobo Li	Study of the flames in the EV burner and the cyclone burner using ECT with enhanced algorithm Jing Liu, Shi Liu, Shanxun Sun	Impulsive Response of Fluid Flow Suddenly Suspended in pipe Sho Yoshizaki, Hiroyuki Hirahara
11:50	ISAI-F-S-0095	ISAI-F-S-0067	ISAI-F-S-0125	
12:10	EXPERIMENTAL INVESTIGATION OF FLOW UNSTEADINESS AND TURBULENCE THROUGH THE FAN STAGE OF A HIGH-BYPASS TURBOFAN IN WINDMILLING CONDITIONS Nicolás García Rosa, Adrien Thacker and Guillaume Dufour	Study on the molten metal flow and temperature characteristics of Electromagnetic Controlled Molten Pool Welding using an Unsymmetrical Alternative Magnetic Field Yuhei ONODA, Shoichi MATSUDA, Yasushi TANAHARA, Toshinaga ASATO	CFD simulations of the effects of upstream swirling flow on swirl meter performance Chen Desheng, Cui Baoling, Zhu Zuchao	

12:10  
13:30

**Lunch**

	Heat Energy and Storage 1	Turbines and Intake	Compressible Flow 1	Heat transfer
13:30	ISAI-F-S-0063	ISAI-F-S-0056	ISAI-F-S-0057	ISAI-F-S-0022
13:50	Experimental study on flow boiling of deionized water in a horizontal long small channel HUANG Qian, JIA Li and YANG Lixin	SPECIFIC ANALYSIS OF CONTINUOUS EVOLUTION OF FLOW TOPOLOGY FOR LOW-SPEED AXIAL MACHINES FROM COMPRESSOR MODE TO HIGHLY LOADED WINDMILL Aurélié Ortolan, Suk-Kee Courty-Audren, Nicolas Binder, Xavier Carbonneau, Florent Challas	A Study on Formation of Weak Shock in Underexpanded Impinging Jet Hiroki HOSHIYA, Yoko SAKAKIBARA, Hiromasa SUZUKI, Masaki ENDO	Heat Transfer Enhancement in Turbular Heat Exchangers with Twin Twisted Tape Inserts S. Eiamsa-ard and P. Promthaisong
13:50	ISAI-F-S-0021	ISAI-F-S-0138	ISAI-F-S-0052	ISAI-F-S-0025
14:10	Experimental Investigation of Thermo-Hydraulic Characteristics in Heat Exchanger Tubes with Inclined Circular-Ring Turbulators V. Kongkai-paiboon, K. Ruengpayungsak and S. Eiamsa-ard	Steady and Unsteady Flow Phenomena in a Bent Intake Duct Rudolf P. M. Rademakers, Thomas Kächele, Reinhard Niehuis	COMPUTATIONAL STUDY OF FLOW THROUGH TRUNCATED AEROSPIKE NOZZLES Prasanth P Nair, Abhilash Suryan and Heuy Dong Kim	Numerical analysis of film cooling with cracking hydrocarbon fuel as coolant Jingying Zuo , Silong Zhang, Jiang Qin, Wen Bao
14:10	ISAI-F-S-0061	ISAI-F-S-0038	ISAI-F-S-0107	ISAI-F-S-0048
14:30	A review on lithium-ion power battery thermal management technologies and thermal safety AN Zhoujian, JIA Li, LI Xuejiao, DING Yong	Unified classification and characterization of axial turbomachines and propellers Massyl Lagha, Nicolas Binder, Sébastien Duplaa, Xavier Carbonneau	CFD Simulations of Shock Containing Free Jets From Square Supersonic Nozzles Shinnosuke MAEDA, Kazunori KUBO, Shinichiro NAKAO, Daisuke ONO, and Yoshiaki MIYAZATO	Investigation of turbulent heat flux models for low molecular Prandtl numbers in planar channel and turbulent square duct flows Florian Trimborn, Balazs Pritz and Martin Gabi

14:30  
14:45

**Coffee break**

	Heat Energy and Storage 2	Turbines and fans	Compressible Flow 2	Steam, pumps and Cycles
14:45	ISAI-F-S-0065	ISAI-F-S-0031	ISAI-F-S-0153	ISAI-F-S-0045
15:05	Attempt at improving thermal efficiency of hydrate engine utilizing structure H hydrate as working medium Zheguang Chena, Yugo Ohfukaa, Masao Fukudaa, Ryo Ohmura	Internal Flow Structure and Rotor Performance of an Axial Flow Compressor at Windmill Conditions Taku HIRAYAMA, Yutaka OHTA, Takashi GOTO, Dai KATO	Temporal Variation of 3D Flows Driven by Subway Trains Crossing in a Straight Tunnel J.M. Cho , J. Sung , D.H. Lee	Numerical investigation of pressure pulsation and radial force in a centrifugal pump Xiaoqi Jia, Zuchao Zhu, Baoling Cui
15:05	ISAI-F-S-0011	ISAI-F-S-0097	ISAI-F-S-0094	ISAI-F-S-0084
15:25	Thermal Property (Viscosity, Specific heat, Latent heat) Evaluation of Nanosuspension Type Latent Heat Storage Material Shin-ichi MORITA , Koki HIRATA, Tomohiro HASE, Yasutaka HAYAMIZU ,Takanobu YAMADA , Akihiko HORIBE , and Naoto HARUKI	Design and Performance of a Half-ducted Propeller Fan Norimasa SHIOMI, Atsushi KAJI, Yoichi KINOUE and Toshiaki SETOGUCHI	On the resonant behavior of compressible flow simulations B. Pritz and M. Gabi	Feasibility Study of a Compact Organic Rankine Cycle Based on Performance of a Fluid Machinery Soichi Sasaki, Syodai Hayasaki, Tomohiko Yamaguchi and Hideshiro Moritaka
15:25	ISAI-F-S-0062	ISAI-F-S-0100	ISAI-F-S-0077	ISAI-F-S-0154
15:45	Experimental Investigation on Flow Boiling Characteristics of Zeotropic Binary Mixtures (R134a/R245fa) in a Rectangular Micro-channel Chao Dang, Li Jia, Xuan Zhang, Qian Huang, Mingchen Xu	Study on the Parameter Optimization of Rear Rotor of Dual-rotor Small Axial Flow Fan Yang Liu, Toshiyuki Aoki, Toshiaki Setoguchi, Yi Li, Yingzi Jin, Wenjun Wu	Oscillatory Characteristics of Multiple Shock Waves in the Supersonic Flow through a Constant Area Passage Jintu K James, T Setoguchi and Heuy Dong Kim	PRESSURE FLUCTUATION IN A STEAM GENERATOR DUE TO MAIN STEAMLINE BREAK J.H.Jeon, Y.H.Choi,Y.W.Lee
15:45	ISAI-F-S-0041		ISAI-F-S-0079	ISAI-F-S-0109
16:05	Thermophysical Property Measurements of Ionic Semiclathrate hydrate Expected to Thermal Storage Medium Ryo Ohmura		Unsteady Structure of Jet in Underexpanded Condition Hiromasa SUZUKI, Masaki ENDO and Yoko SAKAKIBARA	Numerical estimation on recovery heat and power conversion from exhaust gas within a distributed combustion furnace by using water and hydrocarbons as working fluids Hikaru YAMASHIRO, Tomoyasu YARA, Kenji FUKUTOMI and Tatsuya IZUMIKAWA

16:05  
16:20

**Coffee break**

	Cavitation	Turbine Blades and Unsteady flow	Compressible Flow 3	High Speed Nozzles
16:20	ISAI-F-S-0148	ISAI-F-S-0036	ISAI-F-S-0115	ISAI-F-S-0051
16:40	The Mechanism Analysis for Cavitation and Heat Suppression Effect of Cryogenic Fluid in Inducer Wu Yuzhen, Li longxian, Ding zhenxiao, Jin Zhilei, Ran Zhitong	Aerodynamic Investigation of Stabilization Devices Tie-Boss Mounted on Ultra-long Blades of Large Output Steam Turbines Tomas Radnic, Dan Hasnedl, Jindřich Hřel, Josef Kellner, Martin Luxa, David ?imurda	Numerical Analysis of Characteristic on Unsteady Boundary Layer Induced by Propagating Pressure Wave in Long Tube HARA, Kosei, NAKAO, Yujiro YAMASHITA, Naoki and AOKI, Toshiyuki	COMPUTATIONAL ANALYSIS OF FLOW THROUGH PLANAR DOUBLE DIVERGENT NOZZLES Johny George, Abhilash Suryan and Heuy Dong Kim
16:40	ISAI-F-S-0081	ISAI-F-S-0029	ISAI-F-S-0037	ISAI-F-S-0073
17:00	Numerical Modeling of Unsteady Cavitating Flows Around a NACA66 Hydrofoil Using OpenFOAM ZHU Zuchao, YU Benxu, LI Xiaojun	Numerical Simulation of Unsteady Aerodynamics of Vibrating Cascade Blades Using Linear and Non-Linear Unsteady Calculations. Christopher Naval, Fuyuki Sai, Yuzo Inokuchi, and Nobuhiko Yamasaki	An interaction between shock wave and vortex with straight shock tube and elliptical cell M. Yaga, T. Maekawa, H. Fukuoka, N. Kuniyoshi	Choked Gas-Particle Flows through a Convergent-Divergent Nozzle Guang Zhang , Ying Zi Jin and Heuy Dong Kim
17:00	ISAI-F-S-0104	ISAI-F-S-0113	ISAI-F-S-0050	ISAI-F-S-0026
17:20	Effects of Free Nuclei and Dissolved Air Content on Formation of Sheet Cavitation Takafumi KONISHI, Wakana TSURU, Akifumi FUKUMIZU, Satoshi WATANABE, Shin-ichi TSUDA	Investigation of Non-Axisymmetric Endwall Contouring in a Linear Turbine Cascade Xianpeng Ren and Hoshio Tsujita	Simulation of the shock tube problem with small exit nozzle using different numerical schemes Yigang Luan and Franco Magagnato	Gasdynamic Estimation of Total Temperature of Heated Gas/Particle Flow in Supersonic Cold Spray Nozzle H. Katanoda

19:00  
21:00

**Committee Meeting**

**May 10, 2017**

**Conference Cultural Tour**

8:45 Leave Hotel Moon Beach  
Cocean Expo Park  
Okinawa Churaumi Aquarium  
Lunch  
Shuri Castle

17:30 Back to Moon Beach

19:00

21:00 **Banquet at Hotel Moon Beach**

May 11, 2017

May 11, 2017					
Room A		Room B		Room C	Room D
Fan and Blades		Fluidics and acoustics 1		Ocean energy	Compressible flow 4
9:00	ISAI-F-S-0089	ISAI-F-S-0087	ISAI-F-S-0044	ISAI-F-S-0023	
9:20	Assessment of flutter instability in simplified blade cascade using CFD based on discontinuous Galerkin method Jan Vimmr, Ondrej Bublik, Ales Pecka	On Oscillating Performance of a Flip-Flop Jet Nozzle by double-port Control Tatuya Inoue, Katsuya Hirata	Prediction of Tip vortices from Tandem Propellers in Counter-Rotating type Tidal Stream Power Unit Hoyun Jung, Toshiaki Kanemoto, Toshiaki Setoguchi, Yoichi Kinoue, Ahmed Mohamed Galal	Effect of Heterogeneous Condensation on Swirling Flows in a Supersonic Annular Nozzle Yusuke Fukushima, Shigeru Matsuo, Ryuta Murakami and Toshiaki Setoguchi	
9:20	ISAI-F-S-0080	ISAI-F-S-0131	ISAI-F-S-0059	ISAI-F-S-0068	
9:40	Global search of a Three-dimensional Low Solidity Circular Cascade Diffuser for Centrifugal Blowers by Meta-model Assisted Optimization Daisaku Sakaguchi, Takuya Kitamura, Daiki Sakue	A numerical algorithm for a Bio-fluidics based on the theory of fractional calculus Shaoqing Zhang, Lijun Yang, Yunxiao Zhang	Numerical Analysis of Contra-Rotating Small Hydro-Turbine with Cylinder Spoke Nan Ding, Toru Shigemitsu, Zhao Shengdun and Yasutoshi Takeshima	Numerical Simulation of Interaction between Supersonic Flow and Backward Inclined Jets Surrounded by Porous Cavity Nao Kuniyoshi, Minoru Yaga	
9:40	ISAI-F-S-0124	ISAI-F-S-0096	ISAI-F-S-0034	ISAI-F-S-0150	
10:00	A new method to improve the performance of low speed axial-flow fan Tianyao Wang, Hua-Shu Dou*, Jinqiu Xu, Yikun Wei, Huixia Jia	Aerodynamic Sound radiated from Two-dimensional Airfoil with Trailing Edge Serration Masayuki Furuno, Kazuyuki Hani, Hiromitsu Hamakawa, Eru Kurihara and Eiichi Nishida	Bidirectional Type Horizontal-Axis Propeller Installed in Tidal Stream Power Unit Yuki Funami, Yuji Nakanishi, Nak-Joong Lee and Toshiaki Kanemoto	DSMC Study on the Re-entry Aerothermodynamics of Space Recovery Capsules R.V. Reji , S. Anil Lal, and H.D. Kim	
10:00	ISAI-F-S-0058		ISAI-F-S-0114	ISAI-F-S-0055	
10:20	Unsteady Flow Condition between Front and Rear Rotor of Contra-Rotating Small Sized Axial Fan Toru SHIGEMITSU , Hiroaki FUKUDA , and Katsuhiko HIROSAWA		Investigation of performance improvement for compact Darrieus-type hydraulic turbine in small waterwayronori Kikugaw Hironori , Yuki Obata, Masato Shimizu	A Study on Flow and Temperature in the Exhaust Pipe of Internal Combustion Engine Hironobu OTSUKA, Takahiro SUZUKI and Masaki ENDO	
10:20	<b>Coffee break</b>				
10:35					
Jet and Flow Stability		Fluidics and acoustics 2		Turbines and Compressor	Fluid and structure
10:35	SAIF-S-0129	ISAI-F-S-0140	ISAI-F-S-0111	ISAI-F-S-0020	
10:55	Nonlinear spatial instability of a slender viscous jet Tao Hu, Li-Jun Yang, Han-Yu Ye	Numerical Investigation of Flow Field on Simplified Acoustic Panel in Jet Engine Fan Duct Daichi Yamamoto, Genki Kudo, Hiroya Mamori, Naoya Fukushima, Makoto Yamamoto, Ryo Kagaya, and Yoshinori Oba	Influences of Tip Leakage Flows from Main and Splitter Blades on Flow in Transonic Centrifugal Compressor Impeller at Flow Rate from Design to Choke Masanao Kaneko and Hoshio Tsujita	Behavior of a jet issuing diagonally upward into two-layer density-stratified fluid in a cylindrical tank Tomohiro Degawa, Shota Fukue, Tomomi Uchiyama, Akira Ishikawa, Koji Motoyama	
10:55	ISAI-F-S-0082	ISAI-F-S-0105	ISAI-F-S-0042	ISAI-F-S-0027	
11:15	Interaction between High-Pressure Submerged Water Jet and Coaxial Air Stream Minoru Yaga, Mitsuyuki Shioiri, Heuy Dong Kim	A study on acoustically induced vibration of circular pipe Kazuma KATO, Shuntaro MIYAZAKI and Masaki ENDO	Compressor and turbine multidisciplinary design for highly efficient micro-gas turbine DARIO BARSÌ, ANDREA PERRONE, LUCA RATTO, GIANLUCA RICCI, PIETRO ZUNINO	Numerical research of surface roughness on boundary-layer flow and characteristic of axial compressor Hai'ou Sun, Aoyu Ren, Zhongyi Wang, Feng Qu, Meng Wang	
11:15	ISAI-F-S-0133	ISAI-F-S-0106	ISAI-F-S-0043	ISAI-F-S-0015	
11:35	Effect of Reynolds Number on the Stability of Flow around Two Rotating Side-by-side Circular Cylinders Shuo Zhang, Hua-Shu Dou, Xiaoping Chen, Yikun Wei	Analogy on vibration and sound generation process between bubble emission and droplet release Takao OKU,Hiroyuki HIRAHARA, Syoh YOSHIZAKI	Modelling of inlet recirculation effect in a high-speed centrifugal compressor Julissa Grondin, Nicolas Rochuon, Isabelle Trebinjac	Influence of torsion on the friction factor of helical pipe flow Anup Kumer DATTA, Yasutaka HAYAMIZU, Toshinori KOUCHI, Yasunori NAGATA, Kyoji YAMAMOTO and Shinichiro YANASE	
11:35	<b>Closing ceremony</b>				
11:40					