

May 7, 2017

Hotel Moon Beach

18:00 Registration

19:00

Hotel Moon Beach

19:00 Welcome Reception

21:00

May 8, 2017

Registration

Opening Ceremony: Room A

Room A : Keynote Lecture: Prof. Kazuyoshi MIYAGAWA
School of Fundamental Science and Engineering, Waseda University
**Understanding of Unsteady Flow in Radial Turbomachines
using Experimental and Computational Approaches**
Chair: Prof. H.D. Kim, Andong National University, Korea

Coffee Break

	Room A	Room B	Room C	Room D
	<Wind Flows> Prof. Norimasa SHIOMI Saga Univ. Japan	<CFD, Turbines and Fans> Prof. Hongwei Ma Beihang University, China	<Ocean Energy and Turbines> Prof. Yuji Nakanishi Kanagawa University, Japan	<Multi-Phase and Interface Flows 1> Prof. Yi Li Zhejiang Sci-Tech University, China
11:10 11:30	ISAIF-S-0120 Wind Field Reconstruction Incorporating Computational Fluid Dynamics Data via Proper Orthogonal Decomposition Shanxun Sun, Shi Liu, and Jing Liu	ISAIF-S-0086 Surge Prediction of the NASA Stage 35 Axial Compressor using a Hybrid BDF/Harmonic Balance Method Franco Magagnato, Meng Wang and Zhongyi Wang, and Haiou Sun	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 Residual nano films formed by droplet dewetting Qiao Liu, Yajun Deng and Hao Wang
11:30 11:50	ISAIF-S-0030 Experimental Research of Flapping Type Wind Turbine with Chebyshev- Dyad Linkage M. S. Alama, and H. Hirahara	ISAIF-S-0046 Numerical Investigation of a Generic Centrifugal Fan Johannes Walter, Florian Trimborn, , Veronika Krämer, 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 Flows of Mixing of Gas and Liquid inside a Stirred Tank with Exothermic Reaction and Heat Transfer Jing Feng , Nahmkeon Hur , Taejun Ok, and Kiyoung Kim
11:50 12:10	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, Zambri Harun, 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 Hidetoshi Yoshimura, Kei Takamuku, and Takashi Manabe
12:10 12:30	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

	<Ocean Energy> Prof. Masami Suzuki University of the Ryukyus, Japan	<Ramjet and Scramjet> Prof. Piotr Doerffer Polish Academy of Sciences, Poland	<PIV and Visualization> Prof. Katsuya Hirata Doshisha University, Japan	<Fluid Machinery> Prof. Hidechito Hayashi Nagasaki University, Japan
13:50 14:10	ISAIF-S-0044 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	ISAIF-S-0145 Dynamic characteristics of hydrocarbon fuel within the channel at supercritical and pyrolysis condition Bin Yu, Weixing Zhou, Jiang Qin, and Wen Bao	ISAIF-S-0060 Visualization investigation on flowing condensation in horizontal small channels with liquid separator Xuan Zhang, Li Jia, Chao Dang, and Qi Peng	ISAIF-S-0156 Investigation on Multi-objective Performance Optimization Algorithm Application of Fan Based on Response Surface Method and Engropy Method Zhang Li, Jin Yingzi, and Wang Yanping

	Room A	Room B	Room C	Room D
14:10 14:30	ISAIF-S-0059 Numerical Analysis of Contra-Rotating Small Hydro-Turbine with Cylinder Spoke Nan Ding, Toru Shigemitsu, Zhao Shengdun and Yasutoshi Takeshima	ISAIF-S-0110 Large Eddy Simulation of Pseudo-Shock Wave in a Rectangular Duct Ruoyu Deng,Rajesh Gopalapillai, and Heuy Dong Kim	ISAIF-S-0076 A study on flow structure around a bridge beam and behavior of sea water mist Masaaki Ishikawa	ISAIF-S-0146 Investigation and Verification of the Aerodynamic Performance of a Fan/Booster with Through-flow Method Xiaoheng Liu, Donghai JIN, Xingmin GUI
14:30 14:50	ISAIF-S-0034 Bidirectional Type Horizontal-Axis Propeller Installed in Tidal Stream Power Unit Yuki Funami, Yuji Nakanishi, Nak-Joong Lee and Toshiaki Kanemoto	ISAIF-S-0143 The Effect of Film cooling on the Performance of Scramjet Isolators Jiang Qin, Silong Zhang, Kuan Zheng, Yu Feng, Juntao Chang, Wen Bao, and Jiechai Han	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
14:50 15:10	ISAIF-S-0114 Investigation of performance improvement for compact Darrieus-type hydraulic turbine in small waterway Hironori Kikugawa, Yuki Obata, Masato Shimizu, and Akinori Furukawa	ISAIF-S-0075 Numerical Study on Pseudo Shock Waves in a Circular Duct Vignesh Ram P S, Minoru Yaga and Heuy Dong Kim	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
15:10 15:25	Coffee break			
	<Turbine and Compressor 1> Prof. Franco Magagnato Karlsruhe Institute of Tech, Germany	<Shock Wave and Bounday Layer> Prof. Qin Jiang Harbin Institute of Tech, China	<Measurement and Diagnosis> Prof. Zhijun Peng University of Hertfordshire,UK	<Multi-Physics> Prof. Ryoichi S. Amano University of Wisconsin-Milwaukee USA
15:25 15:45	ISAIF-S-0118 Effect of Double Air Injection on Instability Phenomena in Centrifugal Compressor(Influence of circumferential position of injection nozzle) Toshiyuki Hirano, Tatsuya Ogawa and Hoshio Tsujita	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-0106 Analogy on vibration and sound generation process between bubble emission and droplet release Takao OKU, Hiroyuki HIRAHARA, Syoh YOSHIZAKI
15:45 16:05	ISAIF-S-0049 Optimization of root section for ultra long steam turbine rotor blade Jindřich Hála, Martin Luxa, David Šimurda, Marek Bobčík, Ondřej Novák, Bartoloměj Rudas, Jaroslav Synáč	ISAIF-S-0088 Laminar-Turbulent Transition Tripped by Step on Transonic Compressor Profile Piotr Doerffer, Pawel Flaszynski, Ryszard Szwaba ,Michal Piotrowicz, and Piotr Kaczynski	ISAIF-S-0141 Tomographic measurement corrected by accurate data at individual points Mengyuan Wang, Shi Liu, Jing Liu and Shanxun Sun	ISAIF-S-0035 Numerical research on two-phase flow and erosion characteristic of axial compressor Haiou SUN ,Meng WANG , Zhongyi WANG, Song WANG, and Feng QU
16:05 16:25	ISAIF-S-0033 An experimental description of the flow in a centrifugal compressor from alternate stall to surge Victor Moënne-Loccoz, Isabelle Trébinjac, Emmanuel Benichou, Sebastien Goguey, 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-0123 Multi-Physics Simulation of Particulate Erosion Phenomena using One-Way and Two-Way Coupling Masaya Suzuki, Takaaki Hataya, Hiroya Mamori, Naoya Fukushima, and Makoto Yamamoto
16:25 16:45	ISAIF-S-0094 On the resonant behavior of compressible flow simulations Pritz, B. and Gabi, M.	ISAIF-S-0121 Effect of Jet Vortex Generators on Shock Wave Induced Separation on Gas Turbine Profile 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, Dongik Yoon, Gyongrae Cho, Mingyu Jeon, Takahiro Kamimoto, Yohsihiro Deguchi,and Deoghee Doh	ISAIF-S-0078 The Research on Compressor Performance Degradation Caused by Surface Roughness Enlargement due to Corrosion in Marine Environments Hai-Ou Sun, Jing-Yuan Ma, Zhong-Yi Wang, and Meng Wang
16:45 17:05				ISAIF-S-0099 Numerical prediction of erosion in a semi-open gate valve based on CFD-DEM method Zhe Lin, Yifan Zhang, Chuanjing Ma,Zuchao Zhu and Yunqing Sheng

May 9, 2017

Room A : Keynote Lecture: Prof. Jia Li,

School of Mechanical, Electronic and Control Engineering, Institute of Thermal Engineering, Beijing Jiaotong University

**Investigation on lithium-ion battery thermal management
based on flow boiling in mini-channel**

Chair: Prof. YU Shen, Beijing Society of Thermophysics and Energy Engineering, China

Coffee Break

	Room A	Room B	Room C	Room D
	<Fans and Unsteady Flows> Prof. Hidechito Hayashi Nagasaki University, Japan	<Micro/Nano Flow Dynamics> Prof. Hao Wang Peiking University, China	<Reacting Flows> Prof. Deoghee Doh Korea Maritime and Ocean University, Korea	<Multi-Phase and Interface Flows 2> Prof. Shi Liu North China Electric Power University, China
10:40 11:00	ISAIF-S-0047 Investigation of the performance of a fan-diffuser-silencer configuration for thermal power station application Johannes Walter, Carina Schäfer, Dieter Wurz and Martin Gabi	ISAIF-S-0074 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, and Shin-ichi TSUDA	ISAIF-S-0102 Effects of opening distance and pintle tip angle on Cryogenic Spray from a Pintle injector Keonwoong Lee, Dongsoo Shin, Min Son and Jaye Koo	ISAIF-S-0069 Wear analysis of a centrifugal pump due to particle-water flow Yi Li , Jialiang Xiang, Xiaojun Li, Mi Xia, Yingzi Jin, Jianci Zhang, and Yifan Zhang
11:00 11:20	ISAIF-S-0045 Numerical Investigation of Pressure Distribution in a low specific Centrifugal Pump Xiao-Qi Jia, Xiao-Li Yu, Zu-Chao Zhu, Bao-Ling Cui	ISAIF-S-0134 A new computational method for study of charged micro & nano -flows Yunxiao Zhang, Qingfei Fu, Chaojie Mo, and Lijun Yang	ISAIF-S-0126 Effect of outlet contraction on flow field in a model swirl burner Tao Tiu and Zhijun Peng	ISAIF-S-0117 Flow Characteristics of a Drop of Liquid on a Starting Rotating Disk under Orbital Motion Mizue MUNEKATA, Takaomi UTATSU, Misaki KAN, Hiroyuki YOSHIKAWA
11:20 11:40	ISAIF-S-0142 Improvement of motor external fan with response surface method Hidechito HAYASHI, Tetsuya OKUMURA, Masaki MIYAZAKI, Tomomi IKEGAMI, and Yutaka Nakamura	ISAIF-S-0054 Investigation of Contact-angle on Different Microstructural Surfaces Produced by PIII Technology Runhua yang, Lixin Yang, and Chaobo Li	ISAIF-S-0130 Flame imaging on EV-burner using ECT and OH-PLIF Jing Liu, Shi Liu, H.Inaki Schlaberg	ISAIF-S-0092 Study on Mixing Process of Diesel jets with Short Injection Duration Long Liu, Bo Liu, Changfu Han and F. A. Magagnato
11:40 12:00	ISAIF-S-0127 Study of Flow Instability in Miniature Centrifugal Pump Based on Energy Gradient Method Kunhang Li, Xiaoping Chen, Hua-Shu Dou, Lulu Zheng, Zuchao Zhu, and Xianwu Luo	ISAIF-S-0067 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	ISAIF-S-0125 CFD simulations of the effects of upstream swirling flow on swirl meter performance Chen Desheng, Cui Baoling, Zhu Zuchao	ISAIF-S-0108 Impulsive Response of Fluid Flow Suddenly Suspended in pipe Sho Yoshizaki, Hiroyuki Hirahara
12:00 13:30	Lunch			
	<Boiling and Cavitation> Prof. Ryo Ohmura Keio University, Japan	<Turbines and Intakes> Prof. Hoshio Tsujita Hosei University, Japan	<Compressible Flows1> Prof. Hiroshi Katanoda Kagoshima University, Japan	<Heat and Mass Transfer> Prof. Izuru Senaha University of the Ryukyus, Japan
13:30 13:50	ISAIF-S-0063 Experimental study on flow boiling of deionized water in a horizontal long small channel Q. Huang, L. Jia, and D. Chao	ISAIF-S-0056 Experimental validation of the continuous evolution of flow topology from compressor mode to highly loaded windmill of low-speed axial machines Aurélie Ortolan, Suk-Kee Courty-Audren, Xavier Carbonneau, Nicolas Binder, Florent Challas	ISAIF-S-0057 A Study on Formation of Weak Shock in Underexpanded Impinging Jet Hiroki HOSHIYA, Yoko SAKAKIBARA, Hiromasa SUZUKI, and Masaki ENDO	ISAIF-S-0061 A review on lithium-ion power battery thermal management technologies and thermal safety An Zhoujian, Jia Li1, Ding Yong, and Li Xuejiao

	Room A	Room B	Room C	Room D
13:50 14:10	ISAIF-S-0104 Effects of Free Nuclei and Dissolved Air Content on Formation of Sheet Cavitation Takafumi KONISHI, Wakana TSURU, Akifumi FUKUMIZU, Satoshi WATANABE, Shin-ichi TSUDA	ISAIF-S-0138 Steady and Unsteady Flow Phenomena in a Bent Intake Duct Rudolf P. M. Rademakers, Thomas Kächele, Reinhard Niehuis	ISAIF-S-0052 COMPUTATIONAL STUDY OF FLOW THROUGH TRUNCATED AEROSPIKE NOZZLES Prasanth P Nair, Abhilash Suryan and Heuy Dong Kim	ISAIF-S-0025 Numerical analysis of film cooling with cracking hydrocarbon fuel as coolant Zuo Jingying , Silong Zhang, Jiang Qin, Wen Bao
14:10 14:30	ISAIF-S-0062 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	ISAIF-S-0038 Unified classification and characterization of axial turbomachines and propellers Massyl Lagha, Sébastien Duplaa, Nicolas Binder, Xavier Carbonneau	ISAIF-S-0107 CFD Simulations of Shock Containing Free Jets From Square Supersonic Nozzles Shinnosuke MAEDA, Kazunori KUBO, Shinichiro NAKAO, Daisuke ONO, and Yoshiaki MIYAZATO	ISAIF-S-0048 Investigation of turbulent heat flux models for low molecular Prandtl numbers in turbulent planar channel and square duct flows Florian Trimborn, Balazs Pritz and Martin Gabi
14:30 14:45	Coffee Break			
	<Heat Energy and Storage> Prof. Shouichi Matsuda University of the Ryukyus, Japan	<Turbines and Fans> Prof. Toru Shigemitsu Tokushima University, Japan	<Compressible Flows 2> Prof. Qin Jiang Harbin Institute of Technology, China	<Power Cycles> Prof. Zhongyi Wang Harbin Institute of Technology, China
14:45 15:05	ISAIF-S-0065 Attempt at improving thermal efficiency of hydrate engine utilizing structure H hydrate as working medium Zheguang Chen, Yugo Ohfuka, Masao Fukuda, Ryo Ohmura	ISAIF-S-0031 Internal Flow Structure and Rotor Performance of an Axial Flow Compressor at Windmill Conditions Taku HIRAYAMA, Yutaka OHTA, Takashi GOTO, Dai KATO	ISAIF-S-0153 Temporal Variation of 3D Flows Driven by Subway Trains Crossing in a Straight Tunnel J. Sung , J.M. Cho , D.H. Lee	ISAIF-S-0084 Feasibility Study of a Compact Organic Rankine Cycle Based on Performance of a Fluid Machinery Soichi Sasaki, Syodai Hayasaki, Tomohiko Yamaguchi and Hideshiro Moritaka
15:05 15:25	ISAIF-S-0011 Thermal Property Evaluation of Nanosuspension Type Latent Heat Storage Material Shin-ichi MORITA , Koki HIRATA, Tomohiro HASE, Yasutaka HAYAMIZU ,Takanobu YAMADA , Akihiko HORIBE , and Naoto HARUKI	ISAIF-S-0097 Design and Performance of a Half-ducted Propeller Fan Norimasa SHIOMI, Atsushi KAJI, Yoichi KINOUE and Toshiaki SETOGUCHI	ISAIF-S-0077 Oscillatory Characteristics of Multiple Shock Waves in the Supersonic Flow through a rectangular Area Passage Jintu K James, Ruoyu Deng,T Setoguchi and Heuy Dong Kim	ISAIF-S-0154 PRESSURE FLUCTUATION IN A STEAM GENERATOR DUE TO MAIN STEAMLINE BREAK J.H.Jeon, Y.H.Choi,Y.W.Lee
15:25 15:45	ISAIF-S-0041 Thermophysical Property Measurements of Ionic Semiclathrate Hydrate Expected to Be Used as Thermal Energy Storage Medium Yuta Arai, Yuji Yamauchi, Hiroki Tokutomi, Fuyyaki Endo, Atsushi Hotta and Ryo Ohmura	ISAIF-S-0100 Study on the Parameter Optimization of Rear Rotor of Dual-rotor Small Axial Flow Fan Yang Liu, Yuichi Mitsutake, Toshiaki Setoguchi, Yi Li, Yingzi Jin, Wenjun Wu	ISAIF-S-0150 DSMC Study on the Re-entry Aerothermodynamics of Space Recovery Capsules R.V. Reji , S. Anil Lal, and H.D. Kim	ISAIF-S-0109 Estimation on recovery heat and power conversion from exhaust gas within a distributed combustion furnace using water and hydrocarbons as working fluids Hikaru YAMASHIRO, Tomoyasu YARA, Kenji FUKUTOMI and Tatsuya IZUMIKAWA
15:45 16:00	Coffee Break			

May 9, 2017

May 9, 2017			
Room A	Room B	Room C	Room D
	<Turbine and Unsteady Flows> Prof. Hua-Shu Dou Zhejiang Sci-Tech University, China	<Compressible Flows 3> Prof. Pawel Flaszynski Polish Academy of Sciences, Poland	<Gas-Particle Flows> Prof. Jaye Koo Korea Aerospace University, Korea
16:00 16:20	ISAIF-S-0036 Aerodynamic Effects of Tie-boss in Extremely Long Turbine Blades T. Radnic, J. Fürst, D. Hasnedl, J. Hála, J. Kellner, M. Luxa, D. Šimurda	ISAIF-S-0079 Unsteady Structure of Jet in Underexpanded Condition Hiromasa SUZUKI, Masaki ENDO and Yoko SAKAKIBARA	ISAIF-S-0051 Computational Analysis of Flow through Planar Double Divergent Nozzles Johnny George, Abhilash Suryan and Heuy Dong Kim
16:20 16:40	ISAIF-S-0029 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	ISAIF-S-0037 An interaction between shock wave and vortex with straight shock tube and elliptical cell Minoru Yaga, Tomohiro Maekawa, Hiroshi Fukuoka, and Nao Kuniyoshi	ISAIF-S-0073 Choked Gas-Particle Flows through a Convergent-Divergent Nozzle Guang Zhang, Ying Zi Jin and Heuy Dong Kim
16:40 17:00	ISAIF-S-0113 Investigation of Non-Axisymmetric Endwall Contouring in a Linear Turbine Cascade Xianpeng Ren and Hoshio Tsujita	ISAIF-S-0050 Simulation of a Shock Tube with a Small Exit Nozzle Yigang Luan, Matthias Olzmann, and Franco Magagnato	ISAIF-S-0026 Gasdynamic Estimation of Total Temperature of Heated Gas/Particle Flow in Supersonic Cold Spray Nozzle H. Katanoda

May 10, 2017

Conference Cultural Tour

8:45 Departure from Hotel Moon Beach

Ocean Expo Park Okinawa Churaumi Aquarium

Shuri Castle

17:30 Return to Hotel Moon Beach

19:00 Banquet at Hotel Moon Beach

21:00

May 11, 2017

Room A

Room B

Room C

Room D

<Fluidics and Acoustics >

Prof. M. M. A. Alam
National Institute of Technology,
Matsue College, Japan

<Fans and Blades>

Prof. Nobuhiko Yamasaki
Kyushu University, Japan

<Compressible Flows 4>

Prof. Pietro Zunino
University of Genoa, Italy

9:00
9:20

ISAIF-S-0131
A numerical algorithm for a generalized second grade fluid with fractional derivative
Shaoqing Zhang, Lijun Yang

SAIF-S-0129
Nonlinear spatial instability of a slender viscous jet
Tao Hu, Li-Jun Yang, Han-Yu Ye

ISAIF-S-0023
Effect of Heterogeneous Condensation on Swirling Flows in a Supersonic Annular Nozzle
Yusuke Fukushima, Shigeru Matsuo, Ryuta Murakami and Toshiaki Setoguchi

9:20
9:40

ISAIF-S-0105
A study on acoustically induced vibration of circular pipe
Kazuma KATO, Shuntaro MIYAZAKI and Masaki ENDO

ISAIF-S-0089
Assessment of flutter instability in simplified blade cascade using CFD based on discontinuous Galerkin method
Jan Vimmr, Ondřej Bublik, Aleš Pecka, and Luděk Pešek

ISAIF-S-0068
Numerical Simulation of Interaction between Supersonic Flow and Backward Inclined Jets Surrounded by Porous Cavity
Nao Kuniyoshi and Minoru Yaga

9:40
10:00

ISAIF-S-0087
On Oscillating Performance of a Flip-Flop Jet Nozzle by double-port Control
Tatsuya Inoue, Katsuya Hirata

ISAIF-S-0080
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

ISAIF-S-0055
A Study on Flow and Temperature in the Exhaust Pipe of Internal Combustion Engine
Hironobu OTSUKA, Takahiro SUZUKI and Masaki ENDO

10:00
10:20

ISAIF-S-0096
Aerodynamic Sound radiated from Two-dimensional Airfoil with Trailing Edge Serration
Shintaro Kawano, Masayuki Furuno, Hiromitsu Hamakawa, Eru Kurihara and Eiichi Nishida

ISAIF-S-0124
An Optimization Method to Improve the Performance of Low Speed Axial-Flow Fan
Tianyao Wang, Jinqiu Xu, Hua-Shu Dou, Huixia Jia, Jinqiu Xu, and Yikun Wei

ISAIF-S-0140
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

10:20
10:35

Coffee Break

<Jet and Flow Stability>

Prof. Yoshiaki Miyazato
The University of Kitakyushu, Japan

<Turbine and Compressor 2>

Prof. Kazuhiko Toshimitsu
Fukuoka Institute of Tech, Japan

<Boundary Layer Flows>

Prof. Manabu Takao
National Institute of Tech, Japan

10:35
10:55

ISAIF-S-0058
Unsteady Flow Condition between Front and Rear Rotor of Contra-Rotating Small Sized Axial Fan
Toru SHIGEMITSU, Hiroaki FUKUDA, and Katsuhiko HIROSAWA

ISAIF-S-0111
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

ISAIF-S-0020
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
11:15

ISAIF-S-0082
Interaction between High-Pressure Submerged Water Jet and Coaxial Air Stream
Minoru Yaga, Mitsuyuki Shioiri, Heuy Dong Kim

ISAIF-S-0042
Compressor and turbine multidisciplinary design for highly efficient micro-gas turbine
Pietro Zunino, Dario Barsi, Andrea Perrone, Yonglei Qu, Luca Ratto, and Gianluca Ricci

ISAIF-S-0027
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
11:35

ISAIF-S-0133
Effect of Rotational Speed on the Stability of Two Rotating Side-by-side Circular Cylinders at Low Reynolds Number
Hua-Shu Dou and Shuo Zhang

ISAIF-S-0043
Modelling of inlet recirculation effect in a high-speed centrifugal compressor
Julissa Grondin, Nicolas Rochuon, Isabelle Trebinjac

ISAIF-S-0015
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

11:45
12:00

Closing Ceremony : Room B