Timetable

June 22(Sun)

Time	Room 417	Room 401	Room 402	Room 405	Room 409	Room 309	Room 310
9:00-9:10	Opening Remark (Room 417)						
9:20-10:10	Plenary I, Dr. Benoît Fond (Room 417) Temperature imaging in gas and liquid flows using luminescent particles Chair: Prof. Satoshi Someya						
	b-1-1: Quantitative velocimetry (PIV, PTV, LPT, MTV) 1 Chair: Yuichi Murai	a-5-1: Multiphase and granular flows 1 Chair: Hyoung Bum Kim	a-4-1: Aero-acoustics and aero-elasticity Chair: Shunsuke Koike	b-5-1: Special flow sensing and imaging (X-ray, MRI, and PET) Chair: Satoshi Someya	b-4-1: Pressure and temperature imaging (PSP, TSP, and Thermographic phosphor) 1 Chair: Yasuhiro Egami	a-2-1: Biological and bio-medical flows 1 Chair: Kazuki Sugiyama	a-3-1: Unsteady and compressible flows, transition, and turbulence 1 Chair: Taro Handa
10:20-10:40	ISFV21-1085 Experimental Assessment of PIV and MTV Techniques for Measurement of a Supersonic Free Jet under Rarefied Conditions Han June Park, Sung-Gwang Lee, Wontae Hwang	ISFV21-1029 Numerical visualization of seepage water flowing through waste layers around a gas venting pipe installed vertically in a landfill site Kazuyuki Takase, Kazuaki Kusakabe	ISFV21-1086 Passively flutter control of high-aspect-ratio flexible wings Lu Shen, Jinghong Xiong	ISFV21-1027 Utilizing Volumetric Magnetic Resonance Velocimetry for Visualizing Complex Turbulent Flows Sven Grundmann, Martin Bruschewski, Kristine John, Swantje Romig, David Frank, Vincent Klempau	ISFV21-1188 Usage of laser illumination for temperature-sensitive paint method Naveen Sanjeev Viswanathan, Sathesh Mariappan	(Withdrawn)	ISFV21-1002 Dynamic stall visualization of plasma co-flow jet airfoil during pitching and plunging movement ENBO JU, JIANLEI WANG, YI YU, XUANSHI MENG
10:20-12:00	ISFV21-1102 Synthetic color-and-depth encoded (scade) illumination-based high-resolution light field particle imaging velocimetry Depeng Wang	ISFV21-1205 Experimental and Numerical Investigation of Droplet Breakup in Aerodynamic Flow Feng Zhang, Shinan Chang, He Song	ISFV21-1095 An experimental study on vortex evolution of tandem slit resonators with grazing flow under acoustic modulation Yuchao Tang, Peng Wang, Yingzheng Liu	ISFV21-1043 Temporal stress field measurement using flow-induced birefringence Yuto Yokoyama, Vincenzo Calabrese, Simon J Haward, Amy Q Shen	ISFV21-1091 Improvement of Temperature-Sensitive Paint Formulation for Heating with Infrared Laser Daisuke Yorita, Nils van Hinsberg, Christian Klein, Vladimir Ondrus	ISFV21-1143 Alternating Vortices in the Wakes of Dragonfly Wings and Corrugated Artificial Wings Natsuki Yamamoto, Yukitaka Ishimoto	ISFV21-1099 Transonic shock buffet: relation between buffet frequency and shock location Sven Scharnowski, Austin Overmeyer
10:20-12:00	(Withdrawn)	ISFV21-1249 An Experimental Investigation on Aerosol Scavenging using Electrically Charged Spray with Different Nozzles Ruicong Xu, Avadhesh Kumar Sharma, Zeeshan Ahmed, Ravinder Kumar, Ryo Yokoyama, Shuichiro Miwa, Shunichi Suzuki, Koji Okamoto	ISFV21-1208 Analysis of the Wake of Low-Noise Propeller in Freestream HyunKyum Kim, ChangJin Hong, DongGeun Kim, Jong-Seob Han	ISFV21-1110 Investigation on Molecular Force Sensor for Wall Shear Stress Measurement Using Fluorescence Resonance Energy Transfer Reiko KURIYAMA, Ryo HARA, Kazuya TATSUMI	ISFV21-1192 Experimental investigation of transition on an NACA0015 airfoil using temperature-sensitive paint and particle image velocimetry Keesanth Singh Chandrasekaran, Sathesh Mariappan, Debopam Das, Anand Singh	ISFV21-1217 Effect of corrugation wavelength on aerodynamic performance of a low-Reynolds-number airfoil Hyunbeom Lee, Donggeun KIm, SeongWoo Park, Jong-Seob Han	ISFV21-1209 PIV Test on the Model Wing with Morphing Trailing Edge Hangyu Lee, Jaewon Lee, Jong-Seob Han
10:20-12:00	ISFV21-1184 Particle Image Velocimetry based on event camera and optical flow learning Tianyu Liu, Jie Zhao, Zhi Wang, Chao Xu, Shengze Cai	ISFV21-1216 Modeling of Wear Prediction in a Corrosion Dominated Environment with Silica Sand Particles using Taylor Vortex Device Horas Sotardodo Siagian, Yoshihiko Oishi, Sho Osanai, Tambang Manik, Kenta Kusumoto, Himsar Ambarita, Riky Stepanus Situmorang, Koji Teramoto	ISFV21-1210 Performance of flow-induced vibrational power generator by cantilevered square prisms in tandem arrangement and its flow visualization Shunsuke Ikeda, Takahiro Kiwata, Mohamed Heragy, Takuma Shima, Haruki Mitani, Toshiyuki Ueno		ISFV21-1228 Skin friction distribution measurement on riblet using Temperature-Sensitive Paint Yuki Ito	ISFV21-1223 Mosquito evasion factors in the flow field caused by insect trap Hidekazu Shiraishi, Kazuki Sugiyama, Kuniaki Higashi, Daiki Miki, Yoshihiro Kubota	ISFV21-1214 Aerodynamic Performance and Thrust Efficiency of Boundary Layer Ingestion Airfoil SeongWoo Park, Donggeun Kim, Jong-Seob Han
10:20-12:00	ISFV21-1263 A POD-based spatial resolution enhancement method for real-time event-based imaging velocimetry Luca Franceschelli, Enrico Amico, Christian Willert, Marco Raiola, Gioacchino Ca, Stefano Discetti	ISFV21-1206 Why do shoes get wet on rainy days Hayato Hasegawa, Kazuki Sugiyama, Yoshihiro Kubota	ISFV21-1252 Experimental Flow Visualization of Curved Dynamic Vibration Absorbers on Wake Flow Dynamics in Marine Radar Antennas Aref Afsharfard, Amirreza Shahsavari, Kyung Chun Kim		ISFV21-1266 Wall heat transfer measurements in turbulent boundary layers: Insights from water and air experiments Firoozeh Foroozan, Woutijn J Baars, Stefano Discetti, Andrea Ianiro		ISFV21-1105 Characterization of flowfield around a propeller operating at low Reynolds numbers Gabriele Salomone, Gerardo Paolillo, Tommaso Astarita, Gennaro Cardone, Carlo Salvatore Greco
12:00-13:10	Lunch Break						
13:10-13:40	Keynote I, Prof. Andrea Schacchitano (Room 417) The Ring of Fire Approach: Large-Scale Quantitative Flow Visualizations of Transiting Objects Chair: Prof. Michael Klaas						
	b-1-2: Quantitative velocimetry (PIV, PTV, LPT, MTV) 2 Chair: Koji Okamoto	a-5-2: Multiphase and granular flows 2 Chair: Kazuyuki Takase	c-3-1: Machine learning techniques applied to flow visualization 1 Chair: David Rival	b-7-1: Measurements of multidimensional flow properties 1 Chair: Reiko Kuriyama	b-4-2: Pressure and temperature imaging (PSP, TSP, and Thermographic phosphor) 2 Chair: Chih Yung Huang	a-2-2: Biological and bio-medical flows 2 Chair: Yukitaka Ishimoto	a-3-2: Unsteady and compressible flows, transition, and turbulence 2 Chair: Taku Nonomura
13:50-14:10	ISFV21-1048 Aerodynamic investigation of sprinters: an on-site analysis Cristina D'Angelo, Michael Buszek, Wouter Terra, Andrea Sciacchitano	ISFV21-1046 Visualization of Fluid Movement Induced by Volume Change and Deformation in a Soft-Porous Sponge Makoto Miwa, Ryota Koshino, Toshiyuki Sanada	ISFV21-1071 Automatic analysis of oil-flow visualizations using deep learning Ben Steinfurth, Jonas Schulte-Sasse, Julien Weiss	ISFV21-1271 Diffusion coefficient field at microscopy resolution visualized by particle image diffusometry Itsuo Hanasaki (Invited)	ISFV21-1181 Nanoscale temperature imaging in nanoparticles transport field over the plasmonic heating surface Chiharu Sato, Kei Kurihara, Yoshiyasu Ichikawa, Masahiro Motosuke	ISFV21-1009 Influence of the Cardiac Waveform on Newtonian and Non-Newtonian Flows in Straight Compliant Vessels Benedikt Harald Johanning-Meiners, Michael Klaas	ISFV21-1279 Turbulent boundary layer over bio-inspired surfaces: on the modification of turbulent coherent structures and wall-pressure patterns Qingqing Ye (Invited)
14:10-14:30	ISFV21-1068 3D quantitative flow visualization around a ship at varying wind directions Ilda Hysa, Marthijn Tuinstra, Mark-Jan van der Meulen, Fulvio Scarano, Andrea Sciacchitano, Eric Roosenboom	ISFV21-1149 Measurement of brownout two-phase flow induced by hovering helicopter rotor using PIV/PTV Shaofei Wang, chong Pan	ISFV21-1072 Analysis of a high-speed flows pulsations in a shock tube using computer vision and deep learning Murat Muratov	ISFV21-1269 Flow visualization of high viscous mixing fluids in Y-junction micromixer with acoustic streaming induced by triangular spine structure Ayalew Yimam Ali	ISFV21-1201 Visualization of temperature distribution on heated surface using temperature-sensitive paint Ryota Asami, Tetsuya Fukunaga, Yusaku Abe, Yasuhiro Eguchi, Osamu Kawanami, Yu Matsuda	ISFV21-1146 Visualization of flow field in an intradialytic shunt vessel model with particle image velocimetry Shuya Shida, Yutaka Suzuki, Toshinari Akimoto, Yoshihiro Kubota	ISFV21-1270 Vortex dynamics of boundary layer disturbed by cylinder wakes Jiangsheng Wang, Guo-Sheng He, Jin-jun Wang
14:30-14:50	ISFV21-1169 Historic Vehicle Wake Analysis: 'Ring-of-fire' PIV Measurements on the Longest Surviving Jaguar E-Type Ahmed Oguzhan Erdogdu, Dave Hollis, Alex Charogiannis, Aöex Nila, John Boaler, Thomas Berg	(Withdrawn)	ISFV21-1077 Prediction gear pump performance through hydraulic resistance of the fluidic circuit Suhwan Lee, Sunghee Kang, Eunseop Yeom	ISFV21-1253 Dual-wavelength interferometric measurements of temperature and concentration fields of a volatile droplet impacting a solid surface Mohammad Autif Shahdhaar	ISFV21-1202 Visualization of temperature distribution of liquid film evaporation in a three-phase contact line using temperature-sensitive paint Shione Fujiwara, Tetsuya Fukunaga, YusakuAbe Abe, Yasuhiro Egami, Osamu Kawanami, Yu Matsuda	ISFV21-1123 Enhancing Particle Image Velocimetry with RAFT and Optical Flow for High-Fidelity Cardiovascular Flow Measurements Melis Serdar, Eda Nur Saruhan, Kerem Pekkan	ISFV21-1197 Experimental study on the over-tripped boundary layer turbulence induced by wall-mounted tripwires Letian Chen, Zhanqi Tang, Zhenqing Li, Nan Jiang
14:50-15:10	ISFV21-1258 Large scale 3D particle tracking for the study of airborne transmission of pathogens in realistic class room settings Stephan Weiss, Andreas Schröder, Daniel Schanz, Jonathan Lemarechal, Johannes Bosbach, Tobias Strübing	ISFV21-1139 Bubble segmentation in pool boiling at high heat flux Chi-an Feng, Chen-li Sun	ISFV21-1193 Optimization of Airflow in Hospital Rooms Using Numerical Simulation and Surrogate Models Koji Koyamada, Yoshimi YANO, Miho NAKAMURA, Mutsuko TSUJINO, Rena OZAKI, Jihong Liu, Hiroaki NATSUKAWA, Tomomi Azuma	ISFV21-1261 Leading-Edge Vortex Effects on Flow Structures: A Comparative Experimental Study of Single and Double Delta Wings Linkai Li, Yunsong Gu, Peng Bai, Jianglong Guo, Shilong Wang, Chuanzhen Liu, Xufei Meng, Yuzhe Zhang, Yan Wang	ISFV21-1254 Flow and temperature visualization in chemical mechanical planarization process using ultraviolet excitation fluorescence and temperature-sensitive paint Wei-Hsin Tien, Yung-Ching Chang	ISFV21-1047 Exploring Rigid Particle Margination in Red Blood Cell Flows via Unsupervised Learning Gonçalo Coutinho, Philipp Warlitz, Ana S Moita, Jochen Kriegseis, António L.N. Moreira, Massimiliano Rossi	ISFV21-1108 Visualization of scale-dependent convection velocities in a turbulent boundary layer with varying pressure gradients Peter Manovski, Wagih Abu Rowin, Matteo Giacobello, Charitha de Silva, Nicholas Hutchins, Ivan Marusic
15:10-15:30	ISFV21-1264 On calibrating large-scale volumetric flow measurement experiments Daniel Schanz, Stephan Weiss, Jonathan Lemarechal, Johannes Bosbach, Philipp Godbersen, Jakob Faust, Andreas Schröder			ISFV21-1026 A Study on Aerodynamic Characteristics of a Wavy Wing with Winglets Yuto Hyodo, Masashi Kashitani, Masato Taguchi, Takeshi Miyaguni, Shinichiro Nakao, Yoshiaki Miyazato	ISFV21-1031 Temperature and Velocity Simultaneous Measurement using Phosphorescence-PTV: Tracer Particle Preparation and Post-Processing Algorithms Tao Cai, Di Luan, Yingzheng Liu, Di Peng	ISFV21-1107 Stress visualization around a micro-organisms robot using photoelastic measurement Hitonari Kumagai, William Kai Alexander Worby, Yoshiyuki Tagawa	ISFV21-1089 The effect of polymer on pressure drag in a Separated Flow Wagih Abu Rowin, Mohamed G. AbdElKader, Jason Monty
15:30-16:00	Coffee Break						
	b-1-3: Quantitative velocimetry (PIV, PTV, LPT, MTV) 3 Chair: Fulvio Scarano	a-5-3: Multiphase and granular flows 3 Chair: Chen-Li Sun	c-3-2: Machine learning techniques applied to flow visualization 2 Chair: Chungil Lee	b-7-2: Measurements of multidimensional flow properties 2 Chair: Christian Willert	b-4-3: Pressure and temperature imaging (PSP, TSP, and Thermographic phosphor) 3 Chair: Kazuyuki Nakakita	a-2-3: Biological and bio-medical flows 3 Chair: Shuya Shida	a-3-3: Unsteady and compressible flows, transition, and turbulence 3 Chair: Wagih Abu Rowin
16:00-16:20	(Withdrawn)	ISFV21-1246 Phase change heat transfer research using temperature sensitive paints Yutaku Kita (Invited)	(Withdrawn)	ISFV21-1037 Error Analysis on Background-Oriented Schlieren Measurements XIANG LI, Jiawei Li, YUAN XIONG, Jinjun Wang	ISFV21-1096 Development and Characterization of pressure-sensitive paint for the dynamic pressure reconstruction in cryogenic environment Jing Wu, Dunhui Yang, Peihui Chen, Feng Huang	ISFV21-1010 Video Analysis about the Luminescence Synchronization of Luciola parvula Kotaro Yamazaki, Shuto Iwatani, Nao Ninomiya, Masayuki Iigo	ISFV21-1018 Dynamics of a supersonic jet from a clustered linear plug nozzle measured with high-speed schlieren imaging Paul Wißmann, Christian J. Kähler, Sven Scharnowski
16:20-16:40	ISFV21-1177 Feasibility study on density measurement in supersonic/hypersonic air flow using FLEET emission intensities at two different times ryo shimizu, Daiki Shirakawa, Yosuke Sugioka, Shunsuke Koike, Taro Handa	ISFV21-1213 PTV-assisted interfacial rheometry for visualizing multiphase shear banding in granular surface flow Yuichi Murai, Shunta Yamagishi, Peter Fischer	ISFV21-1104 Optical Flow Methods for High-Resolution OCT Analysis of Complex Hemodynamics Eda Nur Saruhan, Melis Serdar, Kerem Pekkan	ISFV21-1038 Focusing Background Oriented Schlieren Technique Based on a Concave Spherical Mirror Xiang Li, CHONG PAN, YUAN XIONG	ISFV21-1242 Characterization of RuDPP-Based PC-PSP for Application to Low Reynolds Number Aerodynamic Testing Tomoyuki Takizawa, Daiju Numata	ISFV21-1069 Cell Viability under Shear Stress in Ultrasound-Driven Microbubble Microstreaming Amirabas Bakhtiari, Benedikt Schumm, Martin Schönfelder, Christian J. Kähler	ISFV21-1155 Isolating Fast and Slow Flows in Schlieren Video Donald Derrick
16:40-17:00	ISFV21-1183 Application of an event camera for particle tracking velocimetry in a refractive index matched oil tunnel Christoph Heigl, Stefan Becker	ISFV21-1061 Numerical study on interfacial deformation by electrohydrodynamic flow at air-water interface Ji Hong Chung, Dong Kee Sohn, Han Seo Ko	ISFV21-1121 DMD-Based 3D Spatio-Temporal Superresolution Reconstruction of Supersonic Jets Chungil Lee, Yuta Ozawa, Takayuki Nagata, Taku Nonomura	ISFV21-1080 Development of TDLAS and BOS Measurement Techniques for Hydrogen Combustion Gas Ejected from a Micro-Rocket Torch Shinichiro Ogawa, Yuya Hirayama, Yuki Yabiku	ISFV21-1244 Prototype Development of Dye-Painted AA-PSP Using Anodized Coatings on Aluminum Alloy Yuma Kawamata, Takeru Kawashima, Kiharu Yoneyama, Daiju Numata	ISFV21-1235 Quantification of Cell Flow during mid-pupal stage of fruit fly ommatidia Yukitaka Ishimoto, Ting Zheng, Makoto Sato	ISFV21-1152 Estimation of low frequency oscillation of normal shock wave in transonic flow controlled using high-frequency flapping-jet device from schlieren images Soki Matsuura, Ryo Onishi, Kazuma Ikeuchi, Akira Urita, Taro Handa
17:00-17:20	ISFV21-1204 Integration of TI-BOS Method and PIV for Simultaneous Measurement of Low-Speed Flow Dynamics yoshiyuki watanabe, Aiko Yakeno, ryoya hosaka, Hiroyuki Okuizumi, Kento Inokuma	(Withdrawn)	ISFV21-1167 Time Series Prediction Method for PIV data Using Time Evolution Equations Misato Kurosawa, Tsuneto Narita, Ryuji Kokubo, Masaki Okawa, Tsubasa Ikami, Yasuhiro Egami, Hiroki Nagai, Yu Matsuda	ISFV21-1112 A parametric study on Neural deflection fields for tomographic BOS reconstruction based on an improved hierarchical sampling strategy Tong Jia, Jiawei Li, Jiangsheng Wang, Xuhui Meng, YUAN XIONG	ISFV21-1011 Photostable two-color pressure-sensitive paint for unsteady measurements using organic luminophores Norihiro Yoshii, Yasuhiro Egami	ISFV21-1156 Effects of vein network structures on blood flow in insect wings Kazuki Sugiyama, Yoshihiro Kubota, Osamu Mochizuki	ISFV21-1153 PIV Measurement of Subsonic Compressible Corner Flow Controlled Using High-Frequency Flapping Jet Ryo Onishi, Soki Matsuura, Kazuma Ikeuchi, Akira Urita, Taro Handa
17:20-17:40	ISFV21-1257 Tomographic reconstruction of tracer particles in a cylindrical liquid bridge using a non-cuboidal voxel system Taishi Yano, Yuji Nakanishi				ISFV21-1013 Evaluation of Pressure Sensitive Paint Frequency Response with a Sweeping Jet Louis Meyer Edelman, Sarah M. Peak, Daniel T. Reese	ISFV21-1268 Pressure-corrected vorticity fields around Acartia Tonsa nauplius during gravitaxis Fahrettin Gökhan Ergin, Erkan Günaydınoğlu, Dilek Funda Kurtulus, Navish Wadhwa	(Withdrawn)
18:00-20:00	ISFV21 Symposium Reception (Reception Hall in International Exchange Bldg.)						

Timetable

June 23(Mon)

Time	Room 417	Room 401	Room 402	Room 405	Room 409	Room 309	Room 310
9:00-9:30	Keynote II, Prof. Chuangxin He (Room 417) Data Assimilation for Multi-physical Fields Reconstruction in Complex Turbulence Chair: Prof. Nan Jiang						
	b-1-4: Quantitative velocimetry (PIV, PTV, LPT, MTV) 4 Chair: Masahiro Motosuke	b-4-4: Pressure and temperature imaging (PSP, TSP, and Thermographic phosphor) 4 Chair: Daisuke Yorita		b-7-3: Measurements of multidimensional flow properties 3 Chair: Yuan Xiong	a-7-1: Heat and mass transfer, chemical reactions, and combustion 1 Chair: Kyung Chun Kim	a-3-4: Unsteady and compressible flows, transition, and turbulence 4 Chair: Jiangsheng Wang	a-1-1: Industrial and environmental flows 1 Chair: Naoto Kakuta
9:40-10:00	ISFV21-1001 Multi-physical Fields Visualizations and Measurements for Anti- and De-icing Based on Plasma Actuation Weiwei Hui, Zhipeng Chen, Chongyang Li, Xuanshi Meng	ISFV21-1120 Experimental investigation on cavity-induced flapping jet flow above 15 kHz using fast response pressure-sensitive paint technology and data-driven approach Di Kong, Taro Handa, Takayuki Nagata, Taku Nonomura		ISFV21-1220 Three-dimensional Visualization of shock wave distortion by jet flow interference Masato Yamagishi, Masato Ikawa, Masanori Ota	ISFV21-1092 Application of Thermally-Assisted OH PLIF for a model gas-turbine combustor Dmitriy Sharaborin, Alexey Savitskiy, Vladimir Dulin	ISFV21-1007 Flow structures of an oscillating cylinder near wall Guanghao Chen, Alam Md. Mahbub, Nan Jiang	ISFV21-1196 Flow Visualization Using Micro-PIV for Droplet Evaporation on a Substrate Chih-Ang Chung, Sung-fu Lu, Wei-Lian Lin
10:00-10:20	ISFV21-1014 High-Speed Imaging of Droplet Break-Up and Coalescence: Investigating the Influence of a Helmholtz Resonator on Droplet Dynamics Alireza Heidarian, Imco Sibum, Wietze Nijdam3, Nicholas Buchman, Julio Soria	ISFV21-1127 Evaluation and Correction of Corner Reflection Induced Errors in Pressure-sensitive Paint Measurement Zichao Zhu, Yingzheng Liu, Di Peng		ISFV21-1221 Three-dimensional density measurement around a free-flight test model using Multi High-speed camera Masato Yamagishi, Masanori Ota, Kiyonobu Ohtani, Hiroki Nagai	ISFV21-1119 Visualization of swirl-enhanced NH3/CH4/H2 Flame and combustion characteristics Hanyoung Kim, Sechul Oh, Kyung Chun Kim	ISFV21-1148 Flow separation induced by an asymmetric oscillating fence Sicheng Li, Jinjun Wang	ISFV21-1199 Flow Visualization over Simplified Leatherback Turtle Shell Models by means of Global Luminescent Skin Friction Meter and PIV Oliver SUNGCUAN SANTOS, Takuji NAKASHIMA, Takenori HIRAOKA, Keigo SHIMIZU, Yusuke NAKAMURA, Masato HIJIKURO, Hidemi MUTSUDA
10:20-10:40	ISFV21-1021 Optically-trapped particle tracking velocimetry for microflow analysis Tetsuro Tsuji, Shoma Hashimoto, Satoshi Taguchi	ISFV21-1189 Anodized-Aluminum Pressure Sensitive Paint (AA-PSP) Applied on Free-Flight Model in Hypersonic Shock Tunnel Taichi Itonaga, Masato Taguchi, Hideyuki Tanno, Hidehiro Hata, Masashi Kashitani		ISFV21-1130 Experimental Investigation of Ship Exhaust Dispersion by Cross-Plane Particle Concentration Measurements Abhilash Sankaran	ISFV21-1136 Temperature and velocity measurements for a Bunsen flame in a weak DC electric field Kirill Lavronov, Dmitriy Sharaborin, Roman Tolstoguzov, Vladimir Dulin	ISFV21-1230 PIV Investigation of the Wake Flow Around a Circular Cylinder with Through Holes Anatoliy Sergeevich Lebedev, Alexey Lukyanov, Konstantin Gennadievich Dobroselsky, Vladimir Mikhailovich Dulin	ISFV21-1222 Experimental Study on Axial Development of Liquid Film Flowing Down Inclined Plane with Sidewalls Masaya Usuda, Yuki Mizushima
10:40-11:00	ISFV21-1049 Harmonic Ultrasound Imaging Velocimetry measurements in Low Size-Ratio Suspensions Kai Zhang, Zhuo Zi Yang	ISFV21-1247 Pressure-Sensitive Paint Measurements on the Transonic Flow Field with Vortex Generators Chia Ching Wang, Chih Yung Huang, Kung Ming Chung			ISFV21-1093 PIV/PLIF study of swirling impinging flames Roman Tolstoguzov, Dmitriy Sharaborin, Vladimir Dulin	ISFV21-1017 The vortex shedding from the in-line forced oscillation cylinder which has an asymmetrical cross-section on a flow axis Yoshifumi Yokoi	ISFV21-1166 Visualization and Localization Method for High-Temperature Polluted Airflow Based on Background Oriented Schlieren (BOS) Junhao Rong, Yanqiu Huang, Yi Wang, Junwei Guo, Yihang Zhao
11:00-11:20	ISFV21-1151 Visualization of evaporation-driven flow inside an evaporating sessile droplet by means of Micro-PIV Hao Cong, Kazuyoshi Fushinobu, Tatsuya Kawaguchi	ISFV21-1218 Visualization of Three-Dimensional Stall Phenomenon Using Optical Measurement Techniques in a Low-Speed Wind Tunnel Yosuke Sugioka				ISFV21-1141 Visualization and force measurement of flow over a circular cylinder up to Mach number of 0.7 at Reynolds number of O(10^2) Takayuki Nagata, Tsuyoshi Shigeta, Miku Kasai, Taku Nonomura	ISFV21-1028 Measurement for Three-Dimensional Concentration Distribution of Borated Water Diffused into Complex Geometry Tsugumasa Iiyama, Takahiro Arai, Masahiro Furuya, Riichiro Okawa, Atsushi Ui
11:30-12:00	Keynote III, Prof. Carlo Salvatore Greco (Room 417) Flow field and heat transfer performances of a synthetic jet-controlled sweeping jet Chair: Dr. Fabio Di Felice						
12:00-13:00	Lunch Break						
13:00-13:50	Plenary II, Prof. Sigurður T. Thoroddsen (Room 417) High-speed imaging in multiphase flows: Fine sheets of air and liquids Chair: Prof. Koji Hasegawa						
	b-2-1: Refractive techniques (Schlieren, shadowgraph, and interferometry) 1 Chair: Toshiharu Mizukaki	b-4-5: Pressure and temperature imaging (PSP, TSP, and Thermographic phosphor) 5 Chair: Yosuke Sugioka	b-7-4: Measurements of multidimensional flow properties 4 Chair: Takayuki Nagata	a-5-4: Multiphase and granular flows 4 Chair: Yuichi Murai	a-7-2: Heat and mass transfer, chemical reactions, and combustion 2 Chair: Yanrong Li	a-3-5: Unsteady and compressible flows, transition, and turbulence 5 Chair: Katsuya Hirata	a-1-2: Industrial and environmental flows 2 Chair: Chih-Ang Chung
14:00-14:20	ISFV21-1045 Characterization of focusing schlieren system Eric IBARRA, Christian Kähler, Sven Scharnowski	ISFV21-1122 Simultaneous visualization of pressure and temperature fields by using DL-PTSP based on the lifetime-based method with two cameras Yuta Kanda, Haruto Yamashita, Soyo Ikawa, Hideo Mori	ISFV21-1019 Velocity and concentration field measurements for Solid particle impacts during atmospheric CO2 Oceanic absorption. serge Simoëns, Mahmoud Elhajem, Camille Lozet, Ivana Vinkovic	ISFV21-1059 Hydrodynamic instabilities of a water-air interface triggered by a finite pulse Yu Liang	ISFV21-1115 Flow and Heat Transfer Characteristics During Expansion in an Ionic Liquid-Piston Compressor for Refueling Fuel Cell Electric Vehicles Van-Tinh Huynh, Dong Kim	ISFV21-1016 Dynamics of a Rectangular Vortex Ring Colliding with a Flat-Wall Yanqiao Song, T. H. New	ISFV21-1066 Visualization of liquid ammonia spray in a pressurized N2 chamber Jinho Oh, Eunkoo Yun, Hyun Dong Kim, Kyung Chun Kim
14:20-14:40	ISFV21-1106 High-speed Schlieren Imaging using Event-based Vision Cameras Christian Willert, Joachim Klinner, Alexander Heintz, Markus Raffel	ISFV21-1248 Pressure and Temperature Fluctuation Imaging on a Propeller Fan Using Unsteady PSP/TSP Yoshinori Kawahara, Xinyue HE, Mizue Munekata, Hiroyuki Yoshikawa, Kota KIMURA, Azumi Terakawa, Kaname Maruyama	ISFV21-1023 Advection-based multiframe iterative correction on PIV fields for improved pressure estimation Junwei Chen, Marco Raiola, Stefano Discetti	ISFV21-1171 Film deformation during dome-type water splash formation Yoshihiro KUBOTA, Kazuki Sugiyama	ISFV21-1226 Chemometrics modeling and near-infrared imaging of aqueous acid－base reactions in microfluidic channels Koma Matsunaga, Abdul-Fattah-bin Farid-Nasir, Yuina Abe, Naoto Kakuta	ISFV21-1056 On The Trajectories of Single and Tandem Jets-in-Crossflow Hequn Li, T. H. New	ISFV21-1064 Jet characteristics of LF plating equipment and its plating quality Asuka Kondo, Masaki Fuchiwaki
14:40-15:00	ISFV21-1138 Schlieren flow visualization of laminar/turbulent boundary layer transition around a waverider geometry Simon Bagy, Friedrich Leopold, Myriam Bastide, Berthold Sauerwein, Rémy Kempf	ISFV21-1178 Development of Dual-Layer PSP/TSP enhanced with sprayable optical filter in intermediate layer Rei Funatomi, Yutaka Oda, Shuto Hiraishi, Ryosuke Matsumoto	ISFV21-1040 Development of a PIV system for Measuring Wake Characteristics of a Floating Offshore Wind Turbine Nobuyoshi Fujimoto, Kota Motoda, Ao Takada, Takanori Uchida	(Withdrawn)	ISFV21-1191 Convective heat transfer of impinging pulsed jets Antonio D'Onofrio, Gerardo Paolillo, Carlo Salvatore Greco, Tommaso Astarita, Gennaro Cardone	ISFV21-1159 Acoustic characteristics of underexpanded radial jet impinging on cylindrical inner wall Satoshi Yamazaki, Masaki Endo, Yoko Sakakibara, Hiromasa Suzuki	ISFV21-1054 Study on Enhancing Dust Collection Efficiency Using Electrospray Technology Sung Ho Choi
15:00-15:20	ISFV21-1239 Glare-point Shadowgraphy for Interface Reconstruction Maximilian Dreisbach, Alexander Stroh, Jochen Kriegseis	ISFV21-1129 Global pressure and temperature field measurements using luminescent paint combined with machine learning Masaki Okawa, Jinyoung Kim, Mithat Engin, Tsubasa Ikami, Hiroki Nagai	ISFV21-1180 Vortex force map method to estimate unsteady forces from particle tracking velocimetry Shuji Otomo, Hiroyuki Nishida	ISFV21-1194 Slug flow-induced vibrations: An experimental study YUBO JIN, FADONG GU, GUANGXIN DING, YAZHOU SONG, BYUNGHOON LEE, HYOUNGBUM KIM		ISFV21-1154 Visualization of radial jet through cross-section with abrupt enlargement Kazuhiro Maeda, Yoko Sakakibara, Masaki Endo, Hiromasa Suzuki	ISFV21-1182 Study on the Relation Between Induced Jet Strength and Surface Electrical Potential in Facing Plasma Actuator Yuki Ishii, Itsuki Fukumori, Atsushi Komuro, Hiroyuki Nishida
	b-2-2: Refractive techniques (Schlieren, shadowgraph, and interferometry) 2 Chair: Friedrich Leopold				a-7-3: Heat and mass transfer, chemical reactions, and combustion 3 Chair: Hui Hu	a-3-6: Unsteady and compressible flows, transition, and turbulence 6 Chair: Yoshifumi Yokoi	
15:30-15:50	ISFV21-1088 Visualization of acoustic standing wave by BOS Mao Takeyama, Kota Fujiwara				ISFV21-1008 An Experimental Study to Explore a Novel DBD-Plasma-Based Anti-/De-Icing System for Wind Turbine Icing Mitigation Hui Hu, Harsha Sista, Haiyang Hu, Cem Kolbakir, Xianglan Bai	ISFV21-1035 Experimental Insights from Rectangular Vortex Ring-Wall Collisions Bowen Xu, T. H. New	
15:50-16:10	ISFV21-1101 Three-Dimensional Background-Oriented Schlieren Measurement of Mach-Wave Associated Structures in Supersonic Round Jet Masahito Akamine, Susumu Teramoto, Koji Okamoto				ISFV21-1237 Buoyancy plumes of diluted ionic solution produced on electrode surfaces. abdul fattah bin Farid nasir, Yuina ABE, Naoto Kakuta	ISFV21-1003 Visualization of direct numerical simulation data of pipe flow turbulent spots reveals their quasi-cyclic life cycle at low Reynolds number Xiaohua Wu, Parviz Moin, Ronald J Adrian	
16:10-16:30	ISFV21-1232 Application of Background Oriented Schlieren (BOS) Method for Analyzing Natural Convection in Electrolyte during Electrodeposition Ken Adachi, Taichi Yamauchi, Aiko Yakeno, Etsuro Shibata				ISFV21-1078 A study on thermal effect of J-tube dimension and emissivity in submarine cable system Taehyun Kim, Gunwoo Paik, Dong Kee Sohn, Han Seo Ko	ISFV21-1251 Study on the Visualization of the Mechanism of Asymmetric Cavitation Erosion Induced by Non - spherical Bubble Collapse Shiping Wang	
16:30-16:50	ISFV21-1233 BOS measurement using checkered pattern background Masanori Ota, Masato Yamagishi				ISFV21-1176 Observation of blast extinguishing process of diffusion flames formed on a wooden cylinder Makiko Fukuda	ISFV21-1212 Experiment and Numerical Simulation of Torque on a Rotating Flat Plate in Uniform Flow Ayumu Mizutani, Itsuki Yamamoto, Hiroaki Mihara, Masahiro Miyabe, Katsuya Hirata	
18:00-21:00	Banquet (Hotel Chinzanso Tokyo)						

Timetable

June 24(Tue)

Time	Room 417	Room 401	Room 402	Room 405	Room 409	Room 309	Room 310
9:00-9:30	Keynote IV, Prof. Chih-Yung Huang (Room 417) Quantitative Flow Visualization in Multiscale and Multidisciplinary Thermal-Fluid Sciences Chair: Prof. Christian Kähler						
	b-1-5: Quantitative velocimetry (PIV, PTV, LPT, MTV) 5 Chair: Nao Ninomiya	b-2-3: Refractive techniques (Schlieren, shadowgraph, and interferometry) 3 Chair: Masahito Akamine	b-3-1: Thermal imaging (QIRT, liquid crystals, and MTT) 1 Chair: Shuhei Fujimoto		a-1-3: Industrial and environmental flows 3 Chair: Andrea Sciacchitano	a-7-4: Heat and mass transfer, chemical reactions, and combustion 4 Chair: Han Seo Ko	c-2-1: Data assimilation, physics informed reconstruction, and data fusion 1 Chair: Fabio Di Felice
9:40-10:00	ISFV21-1032 Skin friction topology on generic objects from 3D particle tracking Luuk Antonie Hendriksen, Andrea Sciacchitano, Fulvio Scarano	ISFV21-1042 Refractive Displacement Calculation with GPU-based Acceleration for the BOS Method using Stripe Patterned Background Image Yuki Ogasawara, Narumi Nose, Shin Sakuma, Aymu Ishibashi, Shinsuke Udagawa	ISFV21-1005 Infrared thermography measurements and surface flow visualizations of a laminar separation bubble over an airfoil model Luca Riccobene, Rossella Tomasello, Alex Zanotti		ISFV21-1103 Three-dimensional flow topology and Reynolds number independence in an urban street canyon Brian Dsouza, Nikolaos Pallas, Wei Yu, Demetri Bouris, Christof Gromke, Andrea Sciacchitano	ISFV21-1034 Application of optical flow to re-analyze low-resolution motion images of thermophoretic sampling probe used for collecting nanoparticles in reacting flow Jeonghoon Lee, Jeonghoon Lee	ISFV21-1200 Ensemble PBVR: statistical visualization techniques for ensemble data Takuma Kawamura, Yasuhiro Idomura
10:00-10:20	ISFV21-1065 Visualization of Toroidal Vortex Interacting with Free Surface Yukun Han, Jinho Oh, Chong Pan, Kyung Chun Kim	ISFV21-1215 Quantitative Density Measurements and Frequency Analysis of Unsteady Flow Field Around the Hayabusa type Re-entry Capsule Model Masato Ikawa, Shinji Minato, Yuto Igari, Masato Yamagishi, Masanori Ota, Tatsuro Inage, Hiroki Nagai	ISFV21-1185 Non-Contact Analysis of Submerged Impinging Jet Boundary Layers: Combining Infrared Thermography and Frustrated Total Internal Reflection Ilya Rodin, Ilya Pavlov, Irina Znamenskaya		ISFV21-1144 A Video-Based Approach to Compressing High-Resolution Flow and Meteorological Data Jean-Baptiste Filippi	ISFV21-1041 Wall jet cooling of flat plates under heat flux and isothermal conditions Nana Nakabo, Tomoki Hirokawa, Osamu Kawanami, Itsuro Honda	ISFV21-1174 Application of coarse grid approximation to FlowFit3 Young Jin Jeon
10:20-10:40	ISFV21-1109 Analysis of bubble motion in molten alumina induced by laser irradiation using particle tracking velocimetry (PTV) Daijiro Tokunaga, Yuko Aono, Atsushi Hirata	ISFV21-1024 Shear stress on flat plate due to jet impingement Yo Murata, Masaki Endo	ISFV21-1190 Experimental Investigation of Convective Heat Transfer Reduction on Sinusoidal Riblets Using Infrared Thermography Antonio Mazzara, Gerardo Paolillo, Gioacchino Cafiero, Carlo Salvatore Greco, Tommaso Astarita, Luigi Cardone		ISFV21-1057 Reconstructing Wildfire Front Dynamics from Sparse Observations for Data-Driven Fire Velocity Modeling Jean Baptiste Filippi	ISFV21-1052 Study on baffle material and arrangement to enhance heat transfer performance in phase change material Yun Young Ji, Han Seo Ko, Dong Kee Sohn	ISFV21-1137 Towards physics-informed convolutional networks for optical flow estimation in particle image velocimetry using self-attention Yuvarajendra Anjaneya Reddy, Joel Wahl, Mikael Sjödahl
10:40-11:00	ISFV21-1114 Experimental Analysis of the Spray Dynamics in an Internally Mixed Twin-Fluid Nozzle under Crossflow Conditions Donggyun Nam, Sanghwan Park, Jong-iL Park, Dong Kim	ISFV21-1062 Flow Visualization of a Supersonic Rectangular Jet by RSD Revathy RK, Arun Kumar Perumal	ISFV21-1073 Thermographic Visualization of Internal Flows in Shock Tubes Murat Muratov		ISFV21-1231 Near-infrared Imaging Technique For Gaseous Water Vapor In Ambient Air Atmosphere Yuina Abe, Ryota Matsubara, Fumito Yazawa, Naoto Kakuta	ISFV21-1161 Evaluation of CO2 hydrate barrier layer via water inflow to enhance safety in sub-seabed CO2 storage technology Keichi OBATA, Yanrong LI, Satoshi SOMEYA, Terumi INAGAKI	ISFV21-1094 3D PTV Tomographic visualization of a triple leapfrogging Pietro Sperotto, David Hess, Gökhan Ergin
11:00-11:20	ISFV21-1125 Visualization Study on Efficiency Improvement of Flow-Induced Vibration Energy Harvesters Amirreza Shahsavari, Aref Afsharfard, Kyung Chun Kim	ISFV21-1260 Advanced Knife-edge-free (KEF) Schlieren imaging: self-aligned, colour visualization, with broadened measurement range SHUBHAM SAXENA	ISFV21-1278 Fabrication of temperature sensitive hollow microcapsules for the mono-color and two-color LIF method Satoshi Someya, Yanrong Li		ISFV21-1020 Preliminary experiment on dry ice formation during LCO2 transportation for CCS Yoshiaki Tanzawa, Shinichi Oki		
11:30-12:00	Keynote V, Prof. Yoshiyuki Tagawa (Room 417) Optical stress analysis for fluids and soft materials: Advances in BOS and photoelastic techniques Chair: Dr. Friedrich Leopold						
12:00-13:00	Lunch Break						
13:00-13:50	Plenary III, Prof. Dr. Pavlos P. Vlachos (Room 417) Advancing Flow Velocity Measurements with 4D Flow MRI: From Lab to Clinic Chair: Prof. Chang Kyoung Choi						
	b-1-6: Quantitative velocimetry (PIV, PTV, LPT, MTV) 6 Chair: Yoshiyuki Tagawa	b-2-4: Refractive techniques (Schlieren, shadowgraph, and interferometry)4 Chair: Masanori Ota	b-3-2: Thermal imaging (QIRT, liquid crystals, and MTT) 2 Chair: Masato Taguchi		a-1-4: Industrial and environmental flows 4 Chair: Eiji Ishii	a-7-5: Heat and mass transfer, chemical reactions, and combustion 5 Chair: Carlo Salvatore Greco	c-2-2: Data assimilation, physics informed reconstruction, and data fusion 2 Chair: Di Peng
14:00-14:20	ISFV21-1033 3D Mapping and Visualization of Leading-Edge Vortices on a Thin Disk Travis Bouck, Nandeesh Hiremath	ISFV21-1058 Optical flow-based schlieren image velocimetry (OFSIV) Amayu Wakoya Gena, Conrad Voelker	ISFV21-1076 Dispersive Meta-lens Temperature Detector YULUN HE, Mu Ku Chen, Mingrui Huang, Yifei Zhang, Shengxian Shi		ISFV21-1087 Measurement of Temperature Distribution Using AI-Based Interpolation of Thermocouple Data Wonwoo Jeon, eunseop yeom	ISFV21-1036 Flow and heat transfer of pulsed jet impingement at low impingement distances Dickson Bwana Mosiria, Ching Min Hsu, Ming Xian Zhan	ISFV21-1157 Assimilation of temperature and pressure from Lagrangian velocities in turbulent Rayleigh-Bénard convection Robin Karl Barta, Michael Mommert, Christian Bauer, Marie Christine Volk, Claus Wagner
14:20-14:40	ISFV21-1067 Visualization of Vortex Structures Around Free-Falling Plates Mahmoud Rasti, Jinho Oh, Se Chul Oh, Kyung Chun KIM	ISFV21-1083 Seedless Velocimetry Measurement in High subsonic Sweeping Jet using Shadowgraph Imaging and Wavelet-based Optical Flow Velocimetry Bozhen Lai, Shiqi Wang, Xin Wen, Yingzheng Liu	ISFV21-1132 Visualization method for lightning strike damage on the surface of a wind turbine blade by using thermochromic materials Shuhei Fujimoto		ISFV21-1158 Numerical Study on the Aerodynamic Effects of Pantograph by Post-processing of visualization data Akshat Dwivedi, Nobuyuki Oshima, Sangwon Kim	ISFV21-1074 Innovative precessing jet nozzle design: a heat transfer analysis Cristina D'Angelo, Gerardo Paolillo, Carlo Salvatore Greco, Gennaro Cardone, Tommaso Astarita	ISFV21-1238 3D Reconstruction of contra-rotating propellers flow using phase-locked laser doppler velocimetry Fabio Di Felice, Francisco Alves Pereira
14:40-15:00	ISFV21-1113 4D Flow Field Measurements of Rotor Wake Structures at Different Rotational Speeds Sanghwan Park, Michael Chukwuemeka Ekwonu, Donggyun Nam, Dong Kim	ISFV21-1142 Visualization of supersonic jet using Background Oriented Schlieren Technique Takehiko HIRANO, Hiromasa SUZUKI, Masaki ENDO, Yoko SAKAKIBARA	ISFV21-1276 Visualization of Surface Temperature Stratification in Self-Pressurized Tank Ayako Yajima, Hidenori Arisawa		ISFV21-1124 Understanding of characteristic internal flow at pre-condition of diffuser rotating stall onset in vaned diffusers using multi-color oil-film technique Mikio Takahashi, Dai Iwasaki, Shinichiro Ejiri, Masahiro Miyabe	(Withdrawn)	ISFV21-1060 On the modulation of large-scale structures in turbulent boundary layer with wall-pressure effects Sen Li, Yingzheng Liu
15:00-15:20	ISFV21-1224 Effect of Badminton Shuttlecock Spin on Aerodynamics Kenichi Nakagawa	(Withdrawn)	ISFV21-1277 Modeling of Pressure Estimation in Self-Pressurized Tank Based on Visualization of Temperature Stratification Ayako Yajima, Hidenori Arisawa		ISFV21-1241 Geometry Matters: The Effect of Trailing Edge Modifications on Unsteady Flow Osman Giray Oguzman	ISFV21-1186 Impinging jet convective heat transfer enhancement using genetic algorithm control Victor Duro, Isaac Robledo, Juan Alfaro, Rodrigo Castellanos, Carlos Sanmiguel Vila	ISFV21-1075 EnKF-Based Data Assimilation for Optimizing Turbulence Model in Shock Wave/Boundary Layer Interaction Di Peng, Shukai Wang, Tianhong Tu, Chuangxin He, Yingzheng Liu
15:20-15:40	ISFV21-1234 Experiment on secondary structure of a flat-plate wake at very low Reynolds number Shota Ikejiri, Akihiro Wakabayashi, Takanori Uchida, Ao Takada, Katsuya Hirata	ISFV21-1259 Development of a Quantitative Visualization Technique for Large-scale Experiments by Using Retroreflective Devices Toshiharu Mizukaki, Ibuki Nagayama, Yuki Iwamoto, Masaki Hashida			ISFV21-1084 Experimental and numerical analysis of the wake dynamics for an array of parallel inclined plates Sajjad Hosseini, DongYeon Cheon, Wontae Hwang		
15:40-16:00	Coffee Break						
	b-1-7: Quantitative velocimetry (PIV, PTV, LPT, MTV) 7 Chair: Jun Sakakibara	b-2-5: Refractive techniques (Schlieren, shadowgraph, and interferometry) 5 Chair: Masato Yamagishi	b-7-5: Measurements of multidimensional flow properties 5 Chair: Hideo Mori	a-6-1: Non-Newtonian and complex fluid flows Chair: Hisashi Matsuda	a-1-5: Industrial and environmental flows 5 Chair: Ayumu Inagaki	a-7-6: Heat and mass transfer, chemical reactions, and combustion 6 Chair: Yu Matsuda	c-1-1: Pattern recognition, feature classification, and modal decomposition Chair: Masahito Akamine
16:00-16:20	(Withdrawn)	ISFV21-1165 Design of Background Oriented Schlieren (BOS) with Segmented Panels and Performance Analysis of Airflow Temperature Visualization Yanqiu Huang, Xin Li, Junhao Rong, Shengnan Guo, Junwei Guo, Jiayue Gao	ISFV21-1079 Temperature measurement in high-pressure environments using mid-infrared H2O absorption spectrum JIE GAO, YI JIN, CHAO ZHAI	ISFV21-1044 Polymer-Induced Modifications in Heat Transport and Flow Structure in Rayleigh-Bénard Convection Ning Wei, Yi Chao Xie	ISFV21-1145 Future perspectives on large-scale Lagrangian flow reconstructions using air-filled soap bubbles David E Rival	ISFV21-1229 Visualization study of filament temperature distribution in fused deposition modeling Yusaku Abe, Tomonari Kobayashi, Rio Numajiri, Yu Matsuda	ISFV21-1198 Story flow visualization of the play characters' relationships in the progress of five acts in Shakespeare's plays Miyuki Yamada, Ichiro Kumagai, Yuichi Murai
16:20-16:40	ISFV21-1250 Holographic particle tracking velocimetry as a ready-to-use API Dai Nakai, Fumiya Iwatani, Yohsuke Tanaka	(Withdrawn)	ISFV21-1207 Time-series pressure distribution measurement around Ahmed model at various yaw angles using fast-responding pressure-sensitive paint Masaki Ohmori, Takayuki Nagata, Taku Nonomura	ISFV21-1055 Suppression of snow block formation around automobile wheel housing using weather-resistant plasma actuator Hisashi MATSUDA, Naoya UCHINO, Rei KUROHATA, Kouta Fukuhara, Kouta TSUJI, Takahiro CHIBA, Nobuyoshi WATANABE, Hideaki SATO, Masafumi TAKEYAMA	ISFV21-1118 Visualization of cavitation induced microbubbles and application to heavy metal separation Hyeonwoo Kim, Jinho Oh, Kyung Chun Kim	ISFV21-1245 Feasibility of Lens-Corrected Focusing Schlieren Measurements in an Optical Cold-Flow Single Cylinder Engine Tim Philippe Rommelaere, Michael Klaas, Wolfgang Schröder, Dominik Krug	ISFV21-1050 Modal Decomposition of Hypersonic Flows Nicholas Mejia, Bryan Schmidt
16:40-17:00	ISFV21-1256 Visualization of the 3-D acoustic streaming flow patterns by digital defocus particle streak velocimetry with synchronized gradient illumination Wei-Hsin Tien, Tun-Kuei Yang	ISFV21-1131 Schlieren visualization for injection gas in plasma wind tunnel Takashi Miyashita	ISFV21-1111 Optical measurement of liquid film thickness and nanoparticle concentration distributions in nanofluid droplet to clarify superspreading wetting Keita Aizawa, Hiroki Kusudo, Tetsushi Biwa, Eita Shoji	ISFV21-1063 Multidirectional Birefringence Measurement of CNC Suspension in Rheometric Shear Flow William Kai Alexander Worby	ISFV21-1135 Optimization of Particle Removal in PECVD Chamber with Pressure, Height, and Wall Shear Stress Han-Sol Lee, Dong Kee Sohn, Han Seo Ko	ISFV21-1012 Heat transfer characteristics of cold plate with V-shaped ribs for battery thermal management Yuichirou Fuse, Tomoki Hirokawa, Osamu Kawanami, Itsuro Honda	ISFV21-1255 SPOD for multi-pulse measurements applied to 3D MP-STB particle tracking data of a high-speed jet in air Philipp Godbersen, Jakob von Saldern, Kilian Oberleithner
17:00-17:20	ISFV21-1265 PrandIt's Flow Visualization Films meet Shake-The-Box Christian Willert, Mario Schulze, Sarine Waltenspuel, Daniel Schanz, Juergen Kompenhans	ISFV21-1140 Vapor Shielding Effect in Multi-Droplet Evaporation: Experimental and Numerical Analysis Chang Kyoung Choi, Hyung Ju Lee, Jinghao Jin, Seong Hyuk Lee	ISFV21-1128 Coupling light field imaging and imaging modeling in a backlight configuration to measure size, shape and 3D location of bubbles and droplets Jean-Bernard Blaisot, Pierre Schleuniger, Marc Brunel, Adrian Marszalek, Ramana Kukkarasi, Valentin Muset	ISFV21-1090 Numerical simulation of relationship between statistical dispersion of particle size in suspension suspension and particle behavior Tetsuro Nitta, Tomohiro Fukui	ISFV21-1160 Flow in a Gearing System under Oil Bath Lubrication Ema Tamura, Yuuki Ide	ISFV21-1030 Flow channel modification for improving water management in polymer electrolyte membrane fuel cell Ji Yeon Kim, Sung Yong Jung	ISFV21-1133 Influence of Cross-wind angle and Reynolds number on the aerodynamics of the Generic Cyclist Model Sajad Maleki Dastjerdi, Jose Matias Arbelo Romero, Wouter Terra, Andrea sciacchitano
17:20-17:40	ISFV21-1267 An iterative method for ME-PTV image analysis Fulvio Scarano, Bernhard Wieneke, Adrian Grille Guerra	ISFV21-1168 Experimental visualization of droplet freezing behavior on inclined solid surfaces Yanrong LI, Keichi OBATA, Terumi INAGAKI, Satoshi SOMEYA, Chaobin DANG		ISFV21-1116 Development of a method for evaluating shear stress exerted by fingertip movements for quantitative evaluation of fluid perception Seigo Nishiwaki, Masakazu Muto, Kazuya Kobayashi, Satoru Maegawa, Shinji Tamano			ISFV21-1225 Partitioning Turbulence: A multi-manifold approach for low-dimensional representation of turbulent flows Qihong Lorena Li-Hu, Guy Y. Cornejo Maceda, Andrea Ianiro, Stefano Discetti
17:40-18:00				ISFV21-1117 Verification of Wall Shear Stress Field in Simulated Blood Visualized by Flow-Induced Birefringence Measurement Method Ryo Umezawa, Masakazu Muto, Akihito Sawai, Shinji Tamano			

June 25(Wed)

9:30-9:50	Award ceremony Leonardo da Vinci Award / Asanuma Award Room 417
9:50-10:20	Closing Remark & Next ISFV information Room 417