

Day1	JST(UTC+9) Aug.8, 09:00-20:00					
	Room A	Room E	Room F	Room G	Room H	Room I
JST(UTC+9)09:00-10:00	Registration					
JST(UTC+9)10:20-11:50	VSJ Annual Meeting					
JST(UTC+9)13:00-13:50	<p>Opening remarks Session Chair: Satoshi Someya (AIIST) Yasuyuki Yokono (The University of Tokyo) Masaru Ishizuka (PCTFE Japan) Plenary Lecture 1 Session Chair: Sumppei Funatani (Yamanashi University) Liquid crystal thermography as a modern and unique tool for technical and scientific research Jan A. Stasiek (Gdansk University of Technology)</p>					
JST(UTC+9)14:00-14:40	VSJ Memorial Plenary Lecture 1 (in Japanese)					
JST(UTC+9)15:00-16:20		Technical Sessions E1 OS8*: Physiological/Biological fluid dynamics Session Chair: Kenichi Funamoto(Tohoku University)	Technical Sessions F1 OS5: Thermal management of electronics Session Chair: Katsuya Hirata(Doshisha University)	Technical Sessions G1 OS4: Combustion and Reacting Flow Session Chair: Chihiro Kondo(Okayama University of Science)	Technical Sessions H1 OS1*: Luminescence-based Flow Measurement for Thermofluid Analysis Session Chair: Hideo Mori(Kyushu University)	Technical Sessions I1 GS15: Classical and advanced measurement Session Chair: Hajime Nakamura(National Defense Academy)
		4 INVESTIGATION OF THE INFLUENCE OF VASCULAR ACCESS SHAPE ON HEMODYNAMIC PARAMETERS <i>Hitomi Anzai, Kazuki Takeda, Ai Kajiyama and Makoto Ohta</i>	6 START-UP CHARACTERISTICS OF LOOP HEAT PIPE WITH PLATE-TYPE EVAPORATOR <i>Tomohiro Nakazawa, Atsushi Tsujimori, Tsubasa Usui, Koji Ono, Reo Miwa, Norifumi Miyanaga, Yui Sato and Haruka Suzuki</i>	24 NEAR-LIMITING BEHAVIOR OF POOL FIRES WITH STRONG SWIRLING FLOW <i>Keita Tsukamoto, Akira Odawara, Takuya Yamazaki, Tsuneyoshi Matsuoaka and Yuji Nakamura</i>	88 Unsteady pressure distribution measurement on cylinder surface using anodized aluminum pressure-sensitive paint during shock wave passage <i>Shintaro Tamakuma, Kazuma Yomo, Toshihiro Ogawa and Hiroki Nagai</i>	110 IMPROVEMENT OF SPATIAL RESOLUTION OF HIGH-SPEED BACKGROUND-ORIENTED SCHLIEEN THROUGH ATMOSPHERIC TURBULENCE <i>Toshiharu Mizukaki, Miyuki Kondo and Takeo Minezaki</i>
		13 FUNDAMENTAL STUDY OF MR-MEASUREMENT-INTEGRATED SIMULATION OF HEART-AORTA-SYSTEM: APPLICATION TO AN AORTIC ARCH <i>Suguru Miyachi</i>	28 Visualization of Thermal Networks in Layered Structures by Means of Pump-Probe and Deconvolution Technique <i>Jaao Vitor Thomsen Silveira, Daiki Higuma and Kazuyoshi Fushinobu</i>	47 INFLUENCE OF THE THIRD STREAM TO A THREE-FEED NON-PREMIXED COMBUSTION SYSTEM <i>Sujeet Yadav, Panlong Yu and Hiroaki Watanabe</i>	89 Development of pressure distribution measurement technology on free-flight object surface at transonic speed <i>Yota Hosono, Kazuma Yomo, Koichi Takahashi, Toshihiro Ogawa, Kiyonobu Ohtani and Hiroki Nagai</i>	64 THREE-DIMENSIONAL DENSITY MEASUREMENT USING SIMULTANEOUS MULTI-ANGLE BOS MEASUREMENT SYSTEM IN A SUPERSONIC WIND TUNNEL <i>Masato Yamagishi, Yusuke Hirose, Shinsuke Udagawa, Tatsuro Inage and Masanori Ota</i>
		16 SIMULATION OF A PACKED SUSPENSION OF MICROSWIMMERS <i>Yu Kogure, Toshihiro Omori and Takuji Ishikawa</i>	68 INFLUENCE ON THERMAL IMPEDANCE ALONG HEAT TRANSFER PATH OF POWER SEMICONDUCTOR PACKAGE BY COPPER PAD ON PRINTED CIRCUIT BOARD <i>Koji Nishi</i>	97 NUMERICAL ANALYSIS ON THE TEMPERATURE OF AN ETHANOL SPRAY IN ITS MIXTURE FORMATION PROCESS UNDER DIESEL ENGINE OPERATING CONDITIONS <i>Hironori Saitoh and Hikaru Tsunoda</i>	105 Evaluation of pressure distribution around small rotor blade in low oxygen partial pressure region using PSP <i>Kousei Ogawa, Yanrong Li, Satoshi Someya, Terumi Inagaki, Shimpei Saito, Soumei Baba and Naoki Takada</i>	65 HIGH ACCURATE DENSITY MEASUREMENT OF TRANSONIC FLOW FIELD AROUND THE REENTRY CAPSULE MODEL <i>Yutaro Katagiri, Nao Kosaka, Masato Yamagishi, Yusuke Hirose, Masanori Ota, Masayuki Nomura, Koji Hujita, Kiyonobu Kiyota and Hiroki Nagai</i>
		19 VISUALIZATION OF FLOW FIELD INDUCED BY HYDRODYNAMIC INTERACTIONS OF SWIMMING MICROORGANISM <i>Kiyoto Kubo, Toshihiro Omori and Takuji Ishikawa</i>		98 MICROSCOPIC IMAGE DIAGNOSTICS WITH VISIBLE EMISSION LIGHT FOR SELF-BURNING SURFACE TEMPERATURE DISTRIBUTION OF CFRP (CARBON FIBER REINFORCED PLASTIC) IN OXYGEN <i>Yojiro Ishino and Rion Ito</i>	106 NOISE SUPPRESSION METHOD FOR PSP DATA BASED ON REDUCED-ORDER MODELING <i>Tomoki Inoue, Yu Matsuda, Tsubasa Ikami, Taku Nonomura, Yasuhiro Egami and Hiroki Nagai</i>	95 IMPROVEMENT IN ACCURACY OF THE BACKGROUND ORIENTED SCHLIEREN TECHNIQUE WITH PARALLEL PROJECTION <i>Nao Kosaka, Yuto Igari, Yutaro Katagiri, Masato Yamagishi and Masanori Ota</i>
JST(UTC+9)16:40-18:00		Technical Sessions E2 OS8*: Physiological/Biological fluid dynamics Session Chair: Hitomi Anzai (Tohoku University)		Technical Sessions G2 OS4: Combustion and Reacting Flow Session Chair:Hironori Saitoh(Sojo University)	Technical Sessions H2 OS1*: Luminescence-based Flow Measurement for Thermofluid Analysis Session Chair: K.C.Kim(Pusan National University)	Technical Sessions I2 GS15: Classical and advanced measurement Session Chair: Masanori Ota(Chiba University)
		9 COMPARISON OF HEMODYNAMICS IN LEFT VENTRICLES WITH TRICUSPID AORTIC VALVE AND BICUSPID AORTIC VALVES <i>Shingo Tsuda, Suguru Miyachi and Kenichi Funamoto</i>		35 INERT GAS FLOW RELEASED FROM BURSTING SAUSAGE-SHAPED RUBBER BALLOON AND ITS EXTINGUISHING CHARACTERISTICS <i>Hinako Mikami and Hiroyuki Tonikai</i>	82 Dependence of measurement accuracy and time delay of lifetime-based dual-layer PSP/TSP on film thickness <i>Hideo Mori, Takamitsu Kuroki and Haruka Nishiyama</i>	45 EVALUATION OF THE INFLUENCE OF READING PIXEL IN THE DRAG COEFFICIENT CALCULATED FROM HIGH-SPEED VIDEO CAMERA IMAGES <i>Tomohiro Miyazaki, Takamasa Kikuchi and Akinori Muramatsu</i>
		20 MODELING SPERM SUSPENSION IN THREE DIMENSIONS <i>Nanami Taketoshi, Toshihiro Omori and Takuji Ishikawa</i>		102 Simultaneous measurement of gaseous flow and spark channel using inexpensive inorganic fluorescent tracer <i>Chihiro Kondo and Masanobu Yoshioka</i>	79 Frequency Response of Carbon-nanotube Temperature-sensitive Paint <i>Tsubasa Ikami, Koichi Takahashi, Yasufumi Konishi and Hiroki Nagai</i>	66 Ultrasound Vector Projectile Imaging of Urinary Flow Dynamics <i>Takuro Ishii</i>
		31 VISUALIZATION OF A FRESHWATER-SPONGE SNEEZING <i>Kei Kawashima, Kenji Kikuchi and Takuji Ishikawa</i>		107 SCHLIEREN VISUALIZATION OF EXTINGUISHING PROCESS OF DIFFUSION FLAMES IN AIRBURST BLAST EXTINGUISHMENT WITH MICRO EXPLOSIVES <i>Yuma Yoshida and Hiroyuki Tonikai</i>	87 Development of visualization technique for hydrodynamic stress field utilizing fluorescent force probe <i>Reiko Kuriyama, Ryohei Okamoto, Waka Yamamoto, Hidetsugu Kitakado, Shohei Saito, Kazuya Tatsumi and Kazuyoshi Nakabe</i>	70 STUDY ON DRAG COEFFICIENT FOR CIRCULAR PLATE WITH HOLES <i>Kazuki Namba, Yoshihiro Kubota and Osamu Mochizuki</i>
JST(UTC+9)18:30-21:00	PSFVIP13 Symposium Dinner				113 DEVELOPMENT OF TEMPERATURE MEASUREMENT SYSTEM OF AIRFLOW USING ULTRA-FINE THERMOSENSITIVE LUMINIS PHOSPHOR WIRE <i>Yu Morito and Sumppei Funatani</i>	73 Visualization of Shock waves above water driven by water entry using shadow graph method <i>Yusuke Ebii, Takamasa Kikuchi and Akinori Muramatsu</i>

Day2	JST(UTC+9) Aug.9. 09:00-20:00	Room A	Room E	Room F	Room G	Room H	Room I
JST(UTC+9)09:00-09:40	Plenary Lecture II Session Chair: Satoshi Someya (AIST) Analysis of multi-phase and electrohydrodynamic (EHD) flow for convective heat transfer using visualization technique Han Seo Ko (Sungkyunkwan University)						
JST(UTC+9)09:50-10:30	VSJ Memorial Plenary Lecture 2 (in Japanese)						
JST(UTC+9)10:40-11:40	VSJ Memorial Panel Session (in Japanese)						
		Technical Sessions E3 OS7: Wavelets and Flow Control Session Chair: Yoshiaki Niizeki(Tokushima-Bunri University)	Technical Sessions F3 OS6: Visualization-based Advanced Flow Measurement and Control Session Chair: Kumi Nakai(National Institute of Advanced Industrial Science and Technology)	Technical Sessions G3 OS2*: Measurement Technique Noninvasive Measurement Session Chair: Jun Sakakibara(Meiji University)	Technical Sessions H3 (in Japanese) OS1*(VSJ OS3): Luminescence-based Flow Measurement for Thermo-fluid Analysis Session Chair: Kazunori Mitsuoka(JAXA)	Technical Sessions I3 OS13: Heat transfer and combustion Session Chair: Atsuki Komya(Tohoku University)	
		12 Multiscale flow structures in a cube wake influenced by the front inclined hole Jiawei Li, Xiaolei Han, Hiroka Rinoshika and Akira Rinoshika	33 STUDY OF UNDEREXPANDED SUPERSONIC JETS FROM AXISYMMETRIC MICRO-NOZZLES IN LOW REYNOLDS NUMBER REGIONS Terita Tashiro, Sinichiro Nakao and Yoshiaki Miyazato	44 COLOR PIV FOR MEASURING THREE-DIMENSIONAL WAKE STRUCTURES OF A DELTA WING FROM 0 TO 90 DEGREE IN ANGLE OF ATTACK Kokoro Ochi, Yasufumi Horimoto, Hyun Jin Park, Yuji Tasaka and Yuichi Murai	J4 Development of a white screen layer using a water-soluble polymer suitable for fast-responding pressure-sensitive paint Hiromu Horie, Miku Yamazaki, Yushi Matsumura and Yasuhiro Egami	14 TIME-RESOLVED VISUALIZATION OF HEAT FLUXES FROM NEAR-WALL TURBULENCE FLOWS Irina Znamenskaya, Ekaterina Koroteeva and Vladimir Chirich	
		21 Experimental study of moving-TRPIV on drag reduction control of coherent structures in turbulent boundary layer over superhydrophobic surface Yue Jinhui, Wang Xinwei and Jiang Nan	48 SPATIAL SUPER-RESOLUTION BASED ON PROPER ORTHOGONAL DECOMPOSITION AND BAYESIAN ESTIMATION OF SUBSONIC JET FLOW MEASURED BY TWO MAGNIFICATION PIV SIMULTANEOUS MEASUREMENT Honda Hanataka, Yuta Ozawa and Taku Nonomura	46 EXPERIMENTAL INVESTIGATION OF SHEAR-INDUCED BIREFRINGENCE PROPERTIES OF RHEOSCOPIC FLUIDS FOR VISUALIZATION OF STRESS FIELD OF FLUID FLOW Kosei Hayashi, Shuntaro Tanaka and Katsuki Shirai	J9 Quantitative study of property changes due to interference between dyes in mixed-type two-color PSPs Yushi Matsumura, Yuki Ishida, Takumi Inayoshi, Hiromu Horie and Yasuhiro Egami	41 Flow Boiling Heat Transfer in a Plate Heat Exchanger with Mixed Chevron Angle Plates Mu-Ting Hsieh, Chien-Yuh Yang and Fu-Chen Lin	
JST(UTC+9)13:00-14:40		22 Tomographic PIV measurements in the wake of a wall-mounted barchan dune Xiaolei Han and Akira Rinoshika	54 A TIME-RESOLVED THREE-DIMENSIONAL DENSITY MEASUREMENT FOR AN ASYMMETRICAL UNSTEADY SUPERSONIC IMPINGING JET USING A FIBRE BOS TECHNIQUE Takuma Kuroda, Masahiro Kobayashi and Takahiro Ukai	56 Improvement of particle tracking velocimetry with deep learning Taishi Yano and Yuji Nakanishi	J17 Progress of Simultaneous Measurement of Pressure and Temperature Fields by DL-PTSP Applying Lifetime-Based Calibration Method Takamitsu Kuroki, Haruka Nishiyama and Hideo Mori	50 VISUALIZATION OF TRANSIENT HEAT TRANSFER BY A DROPLET BOUNCING ON A HEATED SURFACE VIA THERMOGRAPHY Masaki Yoshida, Shunsuke Yamada, Yuki Funami and Hajime Nakamura	
		26 3D WAVELET TRANSFORM ON FLOW STRUCTURES BEHIND A COILED MOUNTED SHORT CYLINDER WITH A FRONT INCLINED HOLE Hiroka Rinoshika	100 RESOLUTION ENHANCEMENT BY THE EDRS METHOD FOR BOS ANALYSES Katsunori Ota and Takahiro Ukai	74 DEVELOPMENT OF HIGH-RESOLUTION PSV USING COOLED ILLUMINATION AND FEATURE MATCHING ALGORITHM Yusaku Tsukamoto and Shumpei Funatani	J29 Unsteady Measurement of Back Flow Induced by Surging Caused by Transonic Centrifugal Compressor Using DL-PTSP Masashi Yoshikawa, Kodai Tsuji, Hideo Mori and Masato Furukawa	69 EXPERIMENTAL STUDY OF THERMAL CONVECTION BY HEATING AND COOLING THE SIDE OR TOP SURFACE OF A ROTATING CYLINDRICAL VESSEL Kohei Shimoura, Tatsunori Ihara, Takashi Noguchi and Katsuya Hirata	
		30 EXPERIMENTAL INVESTIGATION ON FLOW CHARACTERISTICS AND HEAT TRANSFER OF NONCIRCULAR SYNTHETIC JETS Lei Wang, Lihao Feng, Yang Xu and Jinjun Wang	61 Improvement of Robustness on Real-time Flow Field Measurement using Sparse Processing PIV Chihaya Abe, Naoki Kanda, Sayumi Kaneko, Kumi Nakai and Taku Nonomura	84 Time-resolved PIV Measurements of Flow Field around a Badminton Shuttlecock during Turnover Process Yuki Sakurai, Kenichi Nakagawa and Hiroaki Hasegawa	J29 Unsteady Measurement of Back Flow Induced by Surging Caused by Transonic Centrifugal Compressor Using DL-PTSP Masashi Yoshikawa, Kodai Tsuji, Hideo Mori and Masato Furukawa	80 LOCAL AND TRANSIENT HEAT TRANSFER MEASUREMENT FOR DROPPLE CONDENSATION USING TEMPERATURE SENSITIVE PAINTS Kohei Matsumura, Tomoya Uchimura, and Yutaku Kita	
		Technical Sessions E4 OS8*: Physiological/Biological fluid dynamics Session Chair: Yoshihiro Kubota (Toyo University)	Technical Sessions F4 OS7: Pipe flows, channel flows and internal flows Session Chair: Shumpei Funatani (Yamanashi University)	Technical Sessions G4 (in Japanese) OS2*(VSJ OS2): Measurement Technique Noninvasive Measurement Technique Session Chair: Shigeo Hosokawa (Kansai University)	Technical Sessions H4 OS1*: Luminescence-based Flow Measurement for Thermo-fluid Analysis Session Chair: Hiroki Nagai(Tohoku University)	Technical Sessions I4 OS2: Multiphase flow (other) Session Chair: Eiji Ishii(Hitachi Corporation)	
		83 VIDEO ANALYSIS ABOUT THE GLIMMER SYNCHRONIZATION OF LUCIOILA PARVULA FIREFLIES Shiro Kobayashi, Nao Ninomiya, Masayuki Igo and Rion Tada	29 VISUALIZATION OF MIXING AND FLOW STRUCTURE IN BLADE-FREE PLANETARY MIXER WITH FREE SURFACE Takayuki Yamagata, Kota Sato and Taubasa Igarashi	J33 Development of local vorticity instrumentation method using stretched film tracer Yuki Kudo, Shigeru Nakai and Yoshisuke Tanaka	51 VISUALIZATION OF TEMPERATURE FIELD IN A CHANNEL BY LASER INDUCED FLUORESCENCE AND TEMPERATURE DEPENDENCE OF PARTICLE BEHAVIOR IN THE CHANNEL Kazuki Hirai, Masahiro Yajima, Hideaki Kato and Katsuki Shirai	2 GAS HYDRATE FORMATION AND DISSOCIATION UNDER STATIC AND DYNAMIC CONDITIONS Yasuharu Nakajima, Joji Yamamoto, Satoru Takano, Marcio Yamamoto, Masao Ono, Shigeo Kanada and Kazuhisa Otsubo	
JST(UTC+9)15:00-16:20		80 Visualization of Bubble Dynamics inside the Proofing Bread Dough using X-ray Microtomography Kiyosaku Kimura, Kenji Kikuchi, Keiko Numayama, Takuji Ishikawa and Taimi Miyagawa	17 MASS TRANSFER AND VELOCITY MEASUREMENTS IN T-JUNCTION PIPING SYSTEM Kazuki Munemura, Kazuki Kawaguchi, Takayuki Yamagata and Ryo Morita	J36 Vortex Structure Formed by a Main flow and a Sweeping Jet Shoma Tanaka and Masaki Fuchiwaki	77 ADAPTIVE WINDOW TECHNIQUE FOR LIFETIME-BASED TEMPERATURE AND VELOCITY SIMULTANEOUS MEASUREMENT USING THERMOGRAPHIC PARTICLE TRACKING VELOCIMETRY WITH A SINGLE CAMERA Tao Cai, Jeongmin Han, Mirae Kim, Juyong Jung, Hyungmin Shin and Kyung Chun Kim	23 Reversal Motion of the Solid Particles with High Thermal Conductivity in the Solid-dispersed Rayleigh-Bénard Convection Shi Dai	
		114 Visualization of microbial transport in the gut of a zebrafish larva Yuta Kikunaga, Kenji Kikuchi, Keiko Numayama-Tsuruta and Takuji Ishikawa	34 NUMERICAL SIMULATION OF MASS TRANSFER AND VELOCITY IN T-JUNCTION PIPING SYSTEM Masaaki Satake, Shun Watanabe, Ryo Morita and Takayuki Yamagata	J69 Time Series image processing for measuring particle size of single droplet atomization Tokiha Yada, Kyohei Mizuno, Koudai Iwasaki, Kouta Nakata, Makoto Asahara and Takechi Miyasaka	109 A CRYOGENIC TEMPERATURE SENSITIVE PAINT MEASUREMENT USING METAL COMPLEX MATERIALS AND PHOSPHORS - TEMPERATURE SENSITIVITY OF OPTICAL PROPERTIES - Yanrong Li, Sou Yasuzawa, Satoshi Someya, Shimpei Saito, Soumei Baba and Naoki Takada	37 THE FIBER-ORIENTATION OF CELLULOSE NANOFIBER SUSPENSIONS IN A PLANAR EXPANSION FLOW Akiyoshi Kusano, Akiomi Ushida and Taisuke Sato	
		39 INFLUENCE OF THE PERIODIC FLOW ON THE FLOW STRUCTURE AROUND THE ROBOTIC FISH Maoto Kawano, Yohsuke Tanaka and Yoshitaka Isoda	7 VISUALIZATION OF INTERMITTENT TURBULENT STRUCTURE IN ECCENTRIC ANNULAR PIPE FLOW Kohei Yatsushiro, Yasufumi Horimoto and Takahiro Tsukahara	J88 Characteristics of unsteady surface tension convection driven by spot heating of a thin liquid layer Tiwari Rajnarajji, Shuma Ogawa and Koichi Nishino	108 A CRYOGENIC TEMPERATURE SENSITIVE PAINT MEASUREMENT USING METAL COMPLEX MATERIALS AND PHOSPHORS - TEMPERATURE SENSITIVITY OF OPTICAL PROPERTIES - Sou Yasuzawa, Satoshi Someya, Yanrong Li, Shimpei Saito, Soumei Baba and Naoki Takada	101 Free surface flow of concentrated particle suspension in Hele-Shaw cell Takashi Koshida and Takehiro Yamamoto	
		Technical Sessions E5 (in Japanese) OS8* (VSJ OS7): Physiological/Biological fluid dynamics Session Chair: Kenji Kikuchi (Tohoku University)	Technical Sessions F5 OS7: Pipe flows, channel flows and internal flows Session Chair: Takayuki Yamagata(Niigata University)	Technical Sessions G5 (in Japanese) OS2*(VSJ OS2): Measurement Technique Noninvasive Measurement Technique Session Chair: Koichi Nishino(Yokohama National University)	Technical Sessions H5 (in Japanese) OS1*(VSJ OS3): Luminescence-based Flow Measurement for Thermo-fluid Analysis Session Chair: Yasuhiro Egami(AITECH)		
		J39 Behaviors of a Pair of Vortex Ring Formed by a Flapping Butterfly Sei Haishi and Masaki Fuchiwaki	52 VISUALIZATION-BASED MEASUREMENT OF FLOW VELOCITY IN A MOULDED PIPE WITH MATCHED REFRACTIVE INDEX Shunya Ishii, Katsuki Shirai and Sakura Fukushima	J34 Visualization of die-cast fluid behavior using PIV analysis Kousuke Ouchi, Yuki Kasibabara and Yuta Sunami	J24 Effects of Antioxidants on Photodegradation of the Dual-Luminescence Pressure-Sensitive Paint Kazuki Uchida, Yuta Ozawa, Keisuke Asai and Taku Nonomura		
JST(UTC+9)16:40-18:00		J73 Blood flow visualizations with particle image velocimetry and computational fluid dynamics analysis for therapy of cardiovascular diseases Shuya Shida, Toru Masuzawa, Masahiro Osa and Makoto Ohia	83 IMAGE PROCESSING OF FLOW VISUALISATION PICTURES TO DETERMINE THE STRUCTURE OF TRANSITIONAL CHANNEL FLOW OF AQUEOUS POLYMER SOLUTIONS Takato Okuda, Xin Song, Satiya Yimprasert, Per Henrik Alfredsson and Masaharu Matsubara	J57 Visualization of Hydrogen Partial Pressure Distribution by Raman Imaging Junpei Yamamoto, Chiaki Mizutani, Koji Ogawa, Hironori Ohira, Masashi Maeda and Tsutomu Hosoi	J32 Development for simultaneous measurement of pressure and temperature using luminescent paint Maito Kanehiro, Koshiro Tsutsumi, Takuma Moriya, Mizue Muneoka and Hiroyuki Yoshikawa		
		J74 Perception of Tone Burst Generated by Animals Kazuki Sugiyama, Yoshihiro Kubota and Osamu Mochizuki	104 EFFECT OF CONTAINER SIZE ON FLOW STRUCTURE IN A RECTANGULAR CONTAINER INJECTED AIR FROM A SLIT NOZZLE Takuto Ichihara, Takahiro Kiyama, Kuniaki Toyoda, Hiroaki Uchida, Yasuhiro Kawamura and Masamichi Tsuji	J70 Near-infrared visualization of water vapor distributions in air: flow analysis using a block matching method Naoto Kakuta and Shintaro Ozawa	J50 Mathematical optimization processing for pressure-sensitive paint data Koyo Kubotani Tomoki Inoue, Taubasa Ikami, Yasuhiro Egami Hiroki Nagai and Yu Matsuda		
		J75 Shape of Water Splash by Object Impinging to Water Surface Takashi Yasui and Yoshihiro Kubota	49 NUMERICAL ANALYSIS OF INTERNAL FLOW IN A SEPARATE HERRINGBONE PLATE HEAT EXCHANGER Daiki Fujiwara and Shuichi Torii				
JST(UTC+9)18:30-20:00	VSJ Banquet						

Day3		JST(UTC+9) Aug.10, 09:00-15:00				
	Room A	Room E	Room F	Room G	Room H	Room I
JST(UTC+9)09:00-9:40	Plenary Lecture III Session Chair: Satoshi Someya (AIIST) Be Ambitious ! to use Open-source software for CFD and flow visualization <i>Nobuyuki Oshima</i> (Hokkaido university)					
JST(UTC+9)10:00-12:00			Technical Sessions F6 GS7: Vortex Session Chair: Aref Afsharfard(Pusan National University, Ferdowsi University of Mashhad)	Technical Sessions G6 GS6: Jet Session Chair: Masaki Fuchiwaki(Kyushu Institute of Technology)	Technical Sessions H6 (<i>In Japanese</i>) OS3*(VSJ OS6): Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering Session Chair: Hiroshige Kikura(Tokyo Institute of Technology)	Technical Sessions I6 GS2: Multiphase flow (Droplet) Session Chair: Nao Ninomiya (Utsunomiya University)
			3 EXPERIMENTAL STUDY ON VORTEX WIDTH AND HYSTERESIS EFFECT OF THE FLOW BETWEEN TWO ROTATING CYLINDERS WITH HIGH ASPECT RATIO <i>Yuki Sugimoto, Tomoki Marumiya, Haruki Inatani, Katsuya Hirata and Takashi Noguchi</i>	86 Visualization and measurement of internal flow in a thin vortex chuck research on improvement of silicon wafer adsorption performance <i>Fukaya Naoyuki and Funatani Shumpei</i>	J63 Fundamental Study on 3D Shape Information Acquisition using Monocular Camera and Ultrasonic Sensor <i>Kazuya Yasui, Takeshi Moriya, Hideharu Takahashi and Hiroshige Kikura</i>	8 In-Situ Real-Time Measurement of Droplets Dynamics Using a High-Speed Streaming Camera <i>Tenshiro Ichimura, Chihiro Inoue and George Kuwabara</i>
			25 Unsteady Flow Instability between Two Parallel Circular Plates in Power Generator <i>Naho Kishizawa, Itsuro Honda, Naohisa Takagaki and Osamu Kawanami</i>	32 Influence of synthetic jet on multiscale features in wall-bounded turbulence <i>Biaohui Li and Nan Jiang</i>	J68 UVP measurement of near-wall in Taylor-Couette flow with small aspect ratio <i>Yoshihiko Oishi, Hideki Kawai and Hiroshige Kikura</i>	10 The Effect of Curvature Distortion on Internal Flow Measurement of a Levitated Droplet using PIV <i>Eugene Gatete, Kaneko Akiko and Shen Biao</i>
			53 Differences in Flow Around Golf Balls with Different Dimple Occupancy, Volume Ratio and Depth <i>Kohei Moriyama and Hiroo Okanaga</i>	55 PRELIMINARY STUDY OF MICROJETS FROM RECTANGULAR CONVERGENT NOZZLES WITH HIGH-ASPECT RATIOS <i>Shota Yoshimi, Sinichiro Nakao and Yoshiaki Miyazato</i>	J85 Bubble sizing in bubbly pipe flow using ultrasound echography <i>Yuichi Murai, Hyun Jin Park, Yuji Tasaka and Shintaro Akasaka</i>	111 VISUALIZATION STUDY ON DROPLET ELECTROHYDRODYNAMIC DEFORMATION IN COMBINED DC ELECTRIC FIELD AND SHEAR FLOW <i>Guangqiu Hao, Xiangdong Liu and Yongping Chen</i>
			57 Experiments on flow field control using an acoustic flow generator device <i>Hideki Kawashima, Shigeyuki Miyazaki and Takamichi Hiroi</i>	58 PRELIMINARY STUDY OF UNDEREXPANDED SONIC JETS FROM ELLIPTIC CONVERGENT NOZZLES <i>Tatsuya Nagata, Muhammad M.Islam, Takeshi Miyaguni, Shintiro Nakao and Yoshiaki Miyazato</i>	J90 Visualization of continuously rising bubbles in gallium alloy <i>Sana Maeda, Hideki Murakawa, Fu Xin and Kazushi Adachi</i>	18 Phase-shifting ellipsometer based on pixelated polarization camera to measure nano-thick liquid film and nanoparticle deposits <i>Eita Shoji, Taiga Saito, Akira Hoshino and Tetsushi Biwa</i>
			76 HEAD-ON VORTEX RING COLLISIONS UPON SMALL LATTICE POSTS <i>Daniel T. H. New, Chuanhua Liu, Darius Koi Yik Tham, Bowen Xu and Haotian Li</i>	75 DETECTION OF LARGE-SCALE STRUCTURES IN A TEMPORAL ROUND JET USING MULTIDIMENSIONAL DYNAMIC MODE DECOMPOSITION <i>Mamoru Takahashi, Ren Fukui, Koichi Tsujimoto, Toshitake Ando and Toshihiko Shakouchi</i>		90 Visualization study of nano particle behavior within pores <i>Yusaku Abe and Yu Matsuda</i>
		78 EXPERIMENTAL INVESTIGATION ON THE FLOW STRUCTURE OF BUOYANCY VORTICES USING PARTICLE IMAGE VELOCIMETRY <i>Ziyang Wang, Neil A. Hawkes, Michael MacDonald, John E. Cater and Richard G.J. Flay</i>			99 NANOPARTICLES ACCUMULATION IN A PREDETERMINED POSITION UNDER AC ELECTRIC FIELD <i>Ahmed Abdelghany, Yuko Okui, Yoshiyasu Ichikawa and Masahiro Motosuke</i>	
JST(UTC+9)13:00-15:00			Technical Sessions F7 GS7: Vortex Session Chair: Yasufumi Horimoto(Hokkaido University)	Technical Sessions G7 GS4: Numerical visualization and image processing Session Chair: Takahiro Tsukahara(Tokyo University of Science)	Technical Sessions H7 OS3*: Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering Session Chair: Hideharu Takahashi(Tokyo Institute of Technology)	
					124 (<i>Session Keynote</i>) EVOLVING ULTRASONIC VELOCITY PROFILER and eUVP <i>Yasushi Takeda, Erich Windhab and Hiroshige Kikura</i>	
			59 OSCILLATORY CHARACTERISTICS OF SHOCK TRAINS IN SQUARE DUCTS <i>Takato Inadomi, Ryota Fukunaga, Taishi Takeshita, Shinichiro Nakao and Yoshiaki Miyazato</i>	43 CFD ANALYSIS AND VISUALIZATION OF CAVITATING BUBBLY FLOW STRUCTURE IN A CENTRIFUGAL PUMP USING MULTI-PROCESS CAVITATION MODEL <i>Akhisa Yamada, Taiki Takamine, Shin-ichi Tsuda and Satoshi Watanabe</i>	119 FUNDAMENTAL RESEARCH ON COMBINATION OF SOLID-LIQUID LEVEL MEASUREMENT AND ELEMENTAL COMPOSITION ANALYSIS USING ULTRASOUND AND LASER <i>Yuan Chen, Naruki Shoji, Zeliang Zhang, Tran Tri Vien, Hideharu Takahashi and Hiroshige Kikura</i>	
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