

Program of ISTP-24, 2013

Friday 1 November, 2013					
16:00	Registration Open				
17:30 – 19:30	Welcome Reception				
Saturday 2 November, 2013					
8:00	Registration Open				
8:30	Welcome and Formal Opening Welcome Speech by Conference Chair, Prof. Koichi Susuki, Tokyo University of Science-Yamaguchi				
8:40	Opening Speech by President of Pacific Center of Thermal Fluid Engineering, Prof. Sadanari Mochizuki				
8:50 - 9:40	Plenary Lecture 1 : Prof. Hiroshi Kawamura, Tokyo University of Science, Suwa <i>Marangoni Convection Experiment on the International Space Station</i>				
9:50 - 10:40	Plenary Lecture 2 : Prof. Sang Yong Lee, Korea Advanced Institute of Science and Technology (KAIST) <i>Drop Impinging Behavior on Structured Surfaces</i>				
	<i>Coffee Break</i>				
11:00 - 11:50	Plenary Lecture 3 : Prof. Harald Raupenstrauch, Montanuniversität Leoben <i>Mathematical Modeling of High Temperature Gas/Solid Reactors and Application to Recycling Processes</i>				
11:50 - 13:10	<i>Lunch on the 3rd Floor of ANA Crowne Hotel (Next to the plenary lecture room)</i>				
13:20	Departure Time of a Free Shuttle Bus to TUSY <i>* All the participants have to move to TUSY by a free shuttle bus from ANA Crowne Plaza Ube.</i>				
Saturday 2 14:00 - 15:20	A	B	C	D	E
		Heat and Mass Transfer I	Thermal-Fluids Machinery	Experimental & Computational Fluid Dynamics I	Transport in Porous Media
		<i>Chair: K. Fushinobu</i>	<i>Chair: T. Hatakeyama</i>	<i>Chair: Y. Oda</i>	<i>Chair: K. Ichimiya</i>

		STUDY OF THERMOPHORETIC DEPOSITION OF ENGINE EMISSIONS IN A PIPE FLOW <i>S. S. Bhusnoor, U.V. Bhandarkar, V. Sethi</i>	PERFORMANCE EVALUATION OF A MULTISTAGE THERMOACOUSTIC ENGINE <i>S. Fukuchi, H. Hatori, T. Biwa</i>	NUMERICAL ANALYSIS OF AIR FLOW PAST THE 2415-3S AIRFOIL FOR AN UNMANNED AERIAL VEHICLE WITH INTERNAL PROPULSION SYSTEM <i>L. Velázquez-Araque, Luis. D. Mendoza, Jesús. Casanova, J. Nožička</i>	IMPINGING JET HEAT TRANSFER OF AN OPEN-CELLULAR POROUS HEAT SINK BY A CIRCULAR NOZZLE WITH A FLANGE <i>S. Saito, M. Iwamoto</i>
		ESTIMATING AIRFLOW TURBULENCE SCALES FROM GAS TRACER DATA <i>R. Mckibbin, A. Harris</i>	BASIC STUDY ON DISCHARGE FLOW CHARACTERISTICS OF ROLLER TUBE PUMP <i>K. Sato, J. Suzuki, K. Hirose, T. Fukue, T. Hashimoto, S. Akitomi</i>	NUMERICAL PREDICTION OF IMPINGING JET HEAT TRANSFER IN A FAIRING WITH CURVED CHANNEL <i>Chen Yan, Zhu Hui-Ren</i>	FLOW CHANNELS WITH PARTIALLY FILLED POROUS MEDIA <i>A. Nouri-Borujerdi</i>
		HUNTING RARE-EARTH METAL IONS WITH SELF-PROPELLED DROPLET WITH PH-RESPONSIVE FUNCTION <i>K. Tani, H. Nakata, T. Ban, Y. Okano</i>	APPLICATION OF A HIGH-ORDER LES TURBULENT MODEL TO STUDY TRANSITIONAL HEAT TRANSFER CHARACTERISTICS OVER TURBINE VANE SURFACE <i>D. Biswas, A. Kitoh</i>	FORCED CONVECTION IN A LOCAL HEATED BLUFF BODY NEAR A WALL <i>K. Ryu, K.S. Lee</i>	NUMERICAL ANALYSIS OF WASTE HEAT CASCADE UTILIZATION IN SINTER COOLER <i>Y. Liu, J. Yang, J. Wang, Z.L. Heng, Q.W. Wang</i>
		EFFECT OF HETEROGENEITY OF POROUS MEDIA ON GAS PERMEATION AND ENTRAPMENT <i>Yohei Mikami, Yoshihiro Deguchi, Tetsuya Suekane</i>	NUMERICAL INVESTIGATION OF PERFORMANCE PARAMETERS OF VERY SMALL JET ENGINE COMBUSTORS <i>D. Hirndorf, M. E. Kügler, J. Heidenfelder, A. Hupfer</i>	EFFECTS OF MACH NUMBER ON SKIN TEMPERATURE AND IR RADIATION OF SUPERSONIC AIRCRAFT <i>Jong Hyun Cha, Tae Hwan Kim, Ji Yeol Bae, Hyung Hee Cho, Dae Yoon Jung</i>	EXPERIMENTS ON THERMOACOUSTIC PROPERTIES OF STACKED MESH SCREENS <i>S.H. Hsu, T. Biwa</i>
<i>Coffee Break on 2nd floor</i>					
Saturday 2 15:40 - 17:20	A	B	C	D	E
	Boiling and Multi-Phase Flow I	Heat and Mass Transfer II	Visualization, Imaging Techniques	Experimental & Computational Fluid Dynamics II	Heat Exchangers
	<i>Chair: I. Ueno</i>	<i>Chair: T. Ohara</i>	<i>Chair: Y. Deguchi</i>	<i>Chair: R. Mckibbin</i>	<i>Chair: Y. Koito</i>
	THE STUDY OF THE VAPOR FILM FORMED UNDER THE BOTTOM SURFACE OF THE VERTICAL FINITE-LENGTH CYLINDER <i>K. Toyoda</i>	ELECTROPORATION OF DERMATOMED SKIN – EX VIVO EXPERIMENTS AND A NUMERICAL MODEL <i>Barbara Zorec, Sid Becker, Damijan Miklavčič, Nataša Pavšelj</i>	ON SIMPLE VISUALIZATION METHOD FOR TEMPERATURE AND FLOW FIELDS OF HOT AIR USING THERMOGRAPHY AND MESH SCREEN <i>T. Tomimura, D. Ishizaki, Y. Koito</i>	INVESTIGATION AND IMPROVEMENT OF FLOW UNIFORMITY FOR HEAT EXCHANGER <i>D. Kim, G. Jin, K-S. Lee</i>	NUMERICAL STUDY ON HEAT TRANSFER ENHANCEMENT OF VORTEX GENERATOR IN A RECTANGULAR CHANNEL <i>Y. Murakami, I. Honda, O. Kawanami, M. Iwasaki, J. Hara</i>
	HEAT TRANSFER CHARACTERISTICS DUE TO THE EVAPORATION AND BOILING OF THIN LIQUID FILM IN THE PRESENCE OF CO-CURRENT GAS FLOW <i>S. Kiuchi, T. Hirokawa, T. Hayashida, Y. Shinmoto, M. Murozono, H. Ohta</i>	EFFECT OF EW OF IONOMER ON THE OXYGEN TRANSPORT RESISTANCE IN THE CATALYST LAYER OF PEFC <i>Thang P. Nguyen, Y. Ono, K. Fushinobu</i>	3D-3C PIV METHOD BY USING W-SHAPED LIGHT SHEET <i>S.Funatani, T.Takeda</i>	INFLUENZA INFECTION SIMULATION IN A CROWDED TRAIN <i>M. Yamakawa, R. Iwasaki, N. Hosotani, K. Matsuno, S. Asao</i>	A STUDY ON FLOW CHARACTERISTICS IN MEANDERING CHANNEL <i>S. Yamamura, I. Honda, O. Kawanami</i>

	<p>INVESTIGATION ON CHF PREDICTION MODELS FOR INNER AND OUTER RPV GAPAT COREMELTDOWN SEVERE ACCIDENT <i>W. X. Tian, G.H. Su, S. Z. Qiu, J. Wang, K. Feng</i></p>	<p>IMPLEMENTATION OF THE LANGMUIR-FREUNDLICH ISOTHERM IN MODELING COUPLED TRANSPORT- HETEROGENEOUS ELECTROCHEMISTRY IN CONTAMINATED PEM FUEL CELLS <i>S. Hasmady And K. Fushinobu</i></p>	<p>VISUALIZATION AND ANALYSIS OF HEAT AND MASS TRANSFER AROUND LIQUID-LIQUID INTERFACE USING THE SIMULTANEOUS TWO-WAVELENGTH IMAGING METHOD <i>D. Kawashima, N. Kakuta, K. Kondo, H. Arimoto, Y. Yamada</i></p>	<p>LARGE EDDY SIMULATION OF HIGH REYNOLDS NUMBER TURBULENT FLOWS USING LATTICE BOLTZMANN METHOD AND CUDA-GPU <i>Shangguan Yanqin, Wang Xian, Chen Gang, Li Yueming</i></p>	<p>EXPERIMENTAL INVESTIGATION OF THE THERMAL BEHAVIOR OF A WATER-PCM HEAT EXCHANGER FOR STABILIZATION OF WATER TEMPERATURE <i>P. Charvat, J. Stetina, L. Klimes, M. Ostry, J. Hejcik</i></p>
	<p>DEVELOPMENT OF TWO-DIMENSIONAL TEMPERATURE DISTRIBUTION MEASUREMENT OF SURFACE BOILING HEAT TRANSFER USING A TEMPERATURE-SENSITIVE PAINT <i>T. Tao, O. Kawanami, Y. Matsuda, T. Tamakoshi, Y. Egami, I. Honda H. Yamaguchi, T. Niimi</i></p>	<p>INFLUENCE OF SHOT PEENING ON SCALE FORMATION DURING A WARM OXIDATION PROCESS <i>A. Takemura, R. Takabata, Y. Tanaka, K. Fujiwara And S. Okaguchi</i></p>	<p>VISUALIZATION OF A RISING MICROBUBBLE POSITION AND FLOW SURROUNDING THE MICROBUBBLE CAUSED BY PHOTOCATALYTIC REACTION <i>N. Unno, T. Tsuda, S. Satake, K. Suzuki</i></p>	<p>NUMERICAL ANALYSES ON LIQUID-METAL MHD FLOW IN SUDDEN CHANNEL EXPANSION <i>H. Kumamaru, K. Itoh, Y. Shimogonya</i></p>	<p>CFD-BASED INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF FLUE GAS-WATER HEAT EXCHANGER PANELS PRODUCED WITH A NOVEL MANUFACTURING PROCESS <i>T. Fukue, C. Spitas, M. Dwaikat, M. Ishizuka</i></p>
	<p>DEVELOPMENT OF A SHORT TRANSPARENT HEATED TUBE FOR A BETTER UNDERSTANDING OF THE MECHANISM OF BOILING HEAT TRANSFER <i>Y. Yamaguchi, O. Kawanami, I. Honda, H. Ohta, H. Asano, T. Kurimoto, M. Komasaki</i></p>	<p>NUMERICAL INVESTIGATION ON HYDROGEN PERMEATION THROUGH PD/AG MEMBRANE FOR H₂/N₂ MIXTURE STAGNATING FLOW <i>H.M. Faizal, T. Yokomori, T. Ueda</i></p>	<p>VISUALIZATION AND MEASUREMENT OF VELOCITY FIELD IN A MICRO-SCALE OPEN CHANNEL USING ELECTRON MICROSCOPE <i>K. Yasuda, M. Sogo, Y. Iwamoto</i></p>	<p>SEMIANALYTICAL MODEL FOR HEAT TRANSFER CHARACTERISTICS OF COUETTE-POISEUILLE UNSTEADY FLOW <i>Balaram Kundu, Pranab Kumar Mondal</i></p>	<p>FROST UNIFORMITY IN MICRO-CHANNEL HEAT EXCHANGERS <i>K. Kim, M.-H. Kim, K.-S. Lee</i></p>
17:30 -	<p>Departure Time of a Free Shuttle Bus to ANA Crowne Plaza Ube and International Hotel Ube <i>* After Technical Sessions, all the participants move to ANA Crowne Plaza Ube and International Hotel Ube</i></p>				
<p>Sunday 3 November, 2013</p>					
8:10	<p>Departure Time of a Free Shuttle Bus to TUSY <i>* All the participants move to TUSY by a free shuttle bus from ANA Crowne Plaza Ube and International Hotel Ube.</i></p>				
8:50 – 9:40	<p>Plenary Lecture 4 : Prof. Alfonso Ortega, Villanova University (Room F on 2nd floor) <i>Uncovering Fundamental Issues in Thermal Management Applications: A Closer Examination of Impinging Synthetic Jets and Droplet Sprays for Cooling Electronics</i></p>				
	<p><i>Coffee Break on 2nd floor</i></p>				
Sunday 3 10:00 – 11:40	A	B	C	D	E
	Boiling and Multi-Phase Flow II	Heat and Mass Transfer III	Thermal Hydraulics of Energy Reactors	Experimental & Computational Fluid Dynamics III	Electronics Packaging and Thermal Management I
	<i>Chair: O. Kawanami</i>	<i>Chair: H. Kumamaru</i>	<i>Chair: A. Kawahara</i>	<i>Chair: L. Velázquez-Araque</i>	<i>Chair: J. M. Wu</i>

	EFFECT OF SURFACE STRUCTURES ON CONVECTIVE FLOW BOILING HEAT TRANSFER <i>Geehong Choi, Dong Il Shim, Beom Seok Kim, Sangwoo Shin, Hyung Gee Cho</i>	EFFECT OF HEAT TRANSER OVER THE FREE SURFACES UPON THERMOCAPILLARY DRIVEN FLOW IN A THIN FREE LIQUID FILM OF A HIGH PLANDTL NUMBER FLUID <i>D. Limsukhawat, I. Ueno</i>	EFFECT OF PHYSICAL PROPERTIES ON GAS ENTRAINMENT RATE FROM FREE SURFACE BY VORTEX <i>Naosuke Ote, Yasuo Koizumi, Hideki Kamide, Shuji Ohno, Kei Ito</i>	VORTICAL STRUCTURES EVOLUTION AND SPREADING CHARACTERISTICS OF A PLANE JET IMPINGING UPON CYLINDER <i>H. H. Chang, C. E. Liu, F. B. Hsiao</i>	STUDY ON OUTSIDE AIR COOLING SYSTEMS IN DATA CENTER <i>M. Koganei Y. Ogata, R. Tanioka, M. Sakamoto, A. Yamanaka</i>
	EFFECT OF WETTABILITY ON BUBBLE DYNAMICS IN NUCLEATE POOL BOILING <i>Donghwi Lee, Beom Seok Kim, Sangwoo Shin, Hwansung Lee, Hyung Hee Cho</i>	DNS OF TURBULENT DIFFUSION TOWARDS THE ESTIMATION OF EMISSION SOURCE <i>J. Hasegawa, K. Oyagi, T. Tsukahara, Y. Kawaguchi</i>	EXPERIMENTAL AND NUMERICAL STUDY ON TRANSIENT HEAT TRANSFER FOR HELIUM GAS FLOWING OVER A FLAT PLATE WITH UNIFORM EXPONENTIAL HEAT GENERATION <i>Z. Zhao, Q.S. Liu, K. Fukuda</i>	CHARACTERISTICS OF WATER FLOW FIELD AROUND AN AIR BUBBLE ATTACHED AT THE TOP OF A DOWNWARD-INCLINED PIPE <i>James Yang, Ting Liu, Cheng Lin, Chia-Hsun Lu, Ming-Jer Kao</i>	EXPERIMENTAL INVESTIGATION OF AIR FLOW THROUGH PERFORATED TILE IN A RAISED FLOOR DATA CENTER <i>V. K. Arghode, Y. Joshi</i>
	BOILING FLOW STRUCTURE IN A HORIZONTAL NARROW CHANNEL WITH A THERMAL SPRAY COATING <i>J. Yoshidome, T. Gomyo, H. Asano</i>	HEAT TRANSFER ENHANCEMENT BY MEANS OF "MAGNETIC RIBS" <i>M. Gallo, H. Nemati, P. Atrotto, B. J. Boersma, P. Colonna</i>	ANALYSIS OF MULTI-DIMENSIONAL THERMAL HYDRAULIC BEHAVIOR IN FUKUSHIMA-DAIICHI UNIT-1 ACCIDENT WITH TRAC-BF1 <i>T. Nagatake, H. Akimoto, H. Yoshida, K. Takase</i>	NUMERICAL AND EXPERIMENTAL INVESTIGATION OF CONTINUOUS STARCH HYDROLYSIS WITH A COUETTE TAYLOR FLOW REACTOR <i>H. Masuda, T. Horie, R. Hubacz, N. Ohmura</i>	EXPERIMENTAL COMPARISON OF ACTIVE TILES WITH PASSIVE TILES IN A RAISED FLOOR DATA CENTER <i>V. Sundaralingam, V.K. Arghode, Y.K. Joshi</i>
	DEVELOPMENT OF COOLING SYSTEM FOR DATA SERVERS USING FLOW BOILING OF NANOFLUID <i>Y. Fukuyama, A. Kawakubo, Y. Shinmoto, H. Ohta, M. Sato, K. Imura, M. Fukagaya, Y. Abe</i>	ACTIVE CONTROL OF IMPINGING JET BY SYNTHETIC JET <i>T. Iwana, K. Suenaga, M. Masahiro, S. Honami</i>	THE ANALYSIS OF CHINSHAN NUCLEAR POWER PLANT SPENT FUEL POOL BY USING TRACE AND FRAPTRAN/SNAP <i>W.Y. Li, J.R.Wang, H.T. Lin, S.W. Chen, C. Shih</i>	WIND-TUNNEL EXPERIMENT ON A SLIDING PLATE ABOVE GROUND SURFACE USING A MOVING-BELT SYSTEM <i>T. Teraoka, T. Okayama, H. Mithara, J. Funaki, K. Hirata</i>	HEAT TRANSFER CHARACTERISTICS OF THE NARROW GAP BETWEEN HIGH SPEED ROTATING COAXIAL CYLINDERS SIMULATING AN EV MOTOR GEOMETRY <i>S.Hirano, M. Komagamine, A.Kaneko, Y.Abe</i>
	STUDY ON MICROLAYER BENEATH FLAT BOILING BUBBLE IN MINI-CHANNEL WITH MEMS SENSOR <i>T. Saitoh, T. Yabuki, O. Nakabeppu</i>	EFFECT OF NOZZLE SHAPE AND CROSS FLOW ON HEAT TRANSFER AND FLOW BEHAVIOR OF IMPINGEMENT JET ARRAY <i>Y. Tomiyama, Y. Yamane, M. Motosuke, S. Honami</i>	PHOTOGRAPHIC STUDY OF SUBCOOLED POOL BOILING CHF FOR PRE-PRESSURIZATION BEFORE EACH EXPERIMENTAL RUN <i>Min Han Htet, Katsuya Fukuda, Quisheng Liu</i>	INVESTIGATION OF TURBULENT MODULATION IN HORIZONTAL PARTICLE LADEN BOUNDARY-LAYER GAS FLOW BY USING PIV <i>K. Sugiyama, K. Otakeguchi, T. Tsukahara, Y. Kawaguchi</i>	REMOTE COOLING OF A HIGH-POWER LIGHT EMITTING DIODE MODULE USING A FLAT EVAPORATOR LOOP HEAT PIPE <i>Nayoung Jeon, Wukchul Joung, Taehee Kim, Daehui Lee, Jinho Lee</i>
11:40 – 13:00	<i>Lunch (All the participants can have a "Japanese Bento (Lunch Box)")</i>				
13:00 - 13:50	Plenary Lecture 5 : Prof. Shigenao Maruyama, Tohoku University (Room F on 2nd floor) <i>Nano-Scale Radiative Heat Transfer to Solve Global Warming and Environmental Issues</i>				
Sunday 3 14:00 – 15:40	A	B	C	D	E
	Boiling and Multi-Phase Flow III	Heat and Mass Transfer IV	Combustion and Reacting Flows I	Experimental & Computational Fluid Dynamics IV	Electronics Packaging and Thermal Management II
	<i>Chair: K. Fukuda</i>	<i>Chair: M. Gallo</i>	<i>Chair: H. Torikai</i>	<i>Chair: C. Hong</i>	<i>Chair: Y. K. Joshi</i>

	IMPROVED SIMULATION OF A SINGLE BUBBLE RISING IN STAGNANT LIQUID USING FINITE VOLUME PARTICLE METHOD <i>X. Liu, L. Guo, K. Morita, S. Zhang</i>	TRANSIENT CHARACTERISTICS OF MAGNETOTHERMAL RAYLEIGH-BENARD CONVECTION OF AIR INDUCED IN A SHALLOW CYLINDRICAL ENCLOSURE WITH AND WITHOUT A SLIP SIDEWALL <i>T. Okitsu, K. Yasuhara, M. Akamatsu</i>	REACTION PATH ANALYSIS TO SODIUM-WATER CHEMICAL REACTION FIELD USING LASER DIAGNOSTICS <i>K. Tamura, Y. Deguchi, R. Muranaka, K. Kusano, T. Takata, S. Kikuchi, A. Kurihara</i>	MODELLING FOR THERMAL CONDUCTIVITY OF BIMETALLIC NANOFLUIDS <i>H. H. Balla, S. Abdullah, WMF Wanmohmood, R. Zulkifli, K. Sopian</i>	MODELING OF MICROPROCESSOR PACKAGE SUBSTRATE WITH EFFECTIVE THERMAL CONDUCTIVITY <i>K. Nishi, T. Hatakeyama, S. Nakagawa, M. Ishizuka</i>
	BEHAVIORS OF MICROBUBBLES RISING NEAR A VERTICAL FLAT WALL <i>A. Kitagawa, T. Ozato, Y. Hagiwara, Y. Murai</i>	NON-LINEAR FLOW FIELDS AND THEIR TRANSITION PROCESSES OF LIQUID BRIDGE DUE TO THERMOCAPILLARY EFFECT UNDER NORMAL GRAVITY CONDITION <i>Takumi Watanabe, Taiki Matsugase, Hiroki Kawasaki, Ichiro Ueno</i>	INFLUENCE OF PRESSURE ON SOOT FORMATION IN LAMINAR DIFFUSION FLAMES OF ETHYLENE DILUTED WITH CARBON DIOXIDE OR NITROGEN AT PRESSURES UP TO 20 ATM <i>Ahmet E. Karataş, Ömer L. Gülder</i>	EXPERIMENTAL STUDY OF THE OBLIQUE COLLISION OF TWO DROPLETS WITH A HOT SOLID <i>H. Fujimoto, K. Takahashi, S. Yoshimoto, T. Hama, H. Takuda</i>	FLOW AND THERMAL RESISTANCE NETWORK ANALYSIS AROUND FINNED HEAT SINKS WITH DIFFERENT SIZES OF BYPASS <i>T. Fukue, K. Hirose, T. Hatakeyama, M. Ishizuka</i>
	PRESSURE DROP ACROSS SUDDEN EXPANSION IN SEPARATED TWO-PHASE FLOW <i>A. Nouri-Borjerdi</i>	EXPERIMENTAL INVESTIGATION OF A DROPLET ON A LOW-SURFACE-ENERGY SOLID <i>Y. Yonemoto, T. Kunugi</i>	INFLUENCE OF FLUE GAS RECIRCULATION ON PERFORMANCE OF A SMALL SCALE BIOMASS COMBUSTION <i>J. Hrdlicka, F. Hrdlicka</i>	THE EFFECT OF XANTHAN GUM ON FLUID FRICTION IN SPIRAL PIPES <i>Yanuar, Budiarmo, Gunawan, M. Baqi, Ogata. S</i>	FUNDAMENTAL NUMERICAL STUDY ON HEAT TRANSFER CHARACTERISTICS OF THERMAL VIAS <i>Y. Koito, Y. Kubo, T. Tomimura</i>
	NUMERICAL SIMULATION OF RISING BUBBLE BEHAVIOR UNDER ACCELERATING CONDITIONS <i>H. Yoshida, T. Nagatake, K. Takase, A. Kaneko, H. Monji, Y. Abe</i>	MODELLING OF A DROPLET BEHAVIOR ON A LOW-SURFACE-ENERGY SOLID <i>Y. Yonemoto, T. Kunugi</i>	STUDY OF FLAME SPREAD BEHAVIOUR IN LARGE-SCALE 2-D DROPLET CLOUDS WITHOUT INTERACTIVE EFFECT USING PERCOLATION APPROACH <i>H. Saputro, T. Seo, M. Mikami</i>	A STUDY OF OFI MESSUREMENT ON SUREFACE AT AN ATTACK ANGLE <i>K. Tsukamoto, Y. Suzuki, K. Tazawa</i>	FUNDAMENTAL NUMERICAL STUDY ON 45° HEAT SPREADING ANGLE <i>Y. Koito, S. Okamoto, T. Tomimura</i>
	NUMERICAL SIMULATION OF BUBBLY FLOW IN A VERTICAL PIPE USING TPFIT CODE <i>L.F. Jiao, H. Yoshida, K. Takase</i>	STUDY ON CONDENSATION OF MIXED VAPOR ON FLAT COOLING PLATE IN POROUS MEDIA – INFLUENCE ON SURFACE TEXTURE (WETTABILITY) OF POROUS MEDIA – <i>R. Nagata, E. Siswanto, H. Katsurayama, Y. Katoh</i>	AN INVESTIGATION OF SECONDARY ATOMIZATION OF EMULSIFIED FUEL IN SPRAY FLOW UNDER VARIOUS TEMPERATURES BY SHADOW IMAGING <i>Yutaka Shoji , Hirotatsu Watanabe, Ken Okazaki</i>	MEASUREMENTS ON FLOW DEFLECTOR FOR CATALYTIC CONVERTER USING EXHAUST GAS FROM GASOLINE ENGINES <i>W. Shibata, S. Matsui, H. Mihara, J. Funaki, K. Hirata</i>	CALCULATION OF HOT SPOT TEMPERATURE IN POWER SI MOSFET WITH ELECTRO- THERMAL ANALYSIS <i>R. Kibushi, T. Hatakeyama, S.Nakagawa M.Ishizuka</i>
<i>Coffee Break on 2nd floor</i>					
Sunday 3 16:00 – 17:20	A	B	C	D	E
	Micro- and Nano-Scale Transport I	Heat and Mass Transfer V	Combustion and Reacting Flows II	Sustainable & Renewable Energy I	Electronics Packaging and Thermal Management III
	<i>Chair: M. Kohno</i>	<i>Chair: Q. S. Liu</i>	<i>Chair: M. Ikeda</i>	<i>Chair: I.N.G. Wardana</i>	<i>Chair: K. Nishi</i>
	TRIBOLOGY OF CHARGED POLYMER BRUSH: MICROSCALE MODELING AND SIMULATION <i>M. Ide, M. Matsumoto</i>	CONTROL OF SLAB SOLIDIFICATION IN CONTINUOUS CASTING PROCESS VIA OPTIMIZATION AND NUMERICAL MODELS <i>T. Mauder, J. Stetina, M. Raudensky</i>	EXTINGUISHMENT OF A JET DIFFUSION FLAME WITH AN INERT-GAS SOAP BUBBLE TRANSPORTED BY A VORTEX RING <i>K. Watanabe, H. Torikai, A. Ito</i>	STUDY ON HEAT EXCHANGE PERFORMANCE OF GROUND SOURCE HEAT PUMP SYSTEM <i>A. Ohashi, K. Tsutsumi, T. Takeda, S. Funatani</i>	STUDY ON THE NATURAL AIR COOLING DESIGN OF ELECTRONIC EQUIPMENT CASINGS: EFFECTS OF THE HEIGHT AND SIZE OF OUTLET VENT ON THE FLOW RESISTANCE <i>M. Ishizuka, T. Hatakeyama, R. Kibushi, S. Nakagawa, Makoto Inoue</i>

	RAREFIED GAS FLOW AND THERMAL CREEP THROUGH MICROCHANNEL IN SLIP FLOW REGIME <i>C.C. Tai, P.Y. Tzeng, C.Y. Soong, F.C. Ji</i>	MASS TRANSFER CHARACTERISTICS OF FIN-AND-TUBE HEAT EXCHANGERS UNDER FROSTING CONDITIONS <i>H. Y. Ye, K. S. Lee</i>	COMBUSTION CHARACTERISTICS OF A 4 STEP GRATE-FIRING WOOD PELLET BOILER: PARTIAL LOAD SIMULATION <i>J. Ahn, J.H. Jang</i>	DEVELOPMENT OF AN AIR CONDITIONING SYSTEM COMBINED WITH A GEOTHERMAL VENTILATION SYSTEM WITH A DESICCANT OUTDOOR AIR-CONDITIONING REGENERATED BY SOLAR AIR HEATERS <i>M. Koganei, K. Tashiro, K. Hiyama, M. Hashimoto, M. Yoshihara, M. Yokoyama</i>	EFFECT OF ORIENTATION ON HEAT TRANSFER FROM MINIATURE/MICRO PINS <i>N. Matsumoto, T. Tomimura, Y. Koito</i>
	MOLECULAR DYNAMICS STUDY ON CONDENSATION/ EVAPORATION BEHAVIOR OF CHAIN MOLECULES AT LIQUID-VAPOR INTERFACE <i>G. Nagayama, M. Takematsu, K. Iwano, T. Tsuruta</i>	DEVELOPMENT OF NUMERICAL METHOD FOR SIMULATING MELTING BEHAVIOR OF FUEL ELEMENTS BASED ON PARTICLE METHOD <i>T. Nagatake, M. Furuya, K. Takase, H. Yoshida, F. Nagase</i>	NUMERICAL STUDIES ON ELEMENTARY PCCI COMBUSTION AFFECTED BY FUEL CONCENTRATION DISTRIBUTION <i>K. Yoshida, T. Tokinoya, Y. Kimura, I. Kataoka</i>	DEVELOPMENT OF THE SUITABLE COMBUSTOR AND COMBUSTION CHARACTERISTIC OF BIOFUELS <i>Shun Matsuda, Shuichi Torii</i>	PARAMETRIC STUDY ON THE PERFORMANCE OF DOUBLE-LAYERED MICROCHANNELS HEAT SINK <i>J.M. Wu, J.Y. Zhao, K.J Tseng</i>
	A MOLECULAR DYNAMICS SIMULATION ON THE MECHANICAL BALANCE OF THE FORCE APPLIED TO A THIN LIQUID FILM ON A NANOMETER-SCALE SLIT PORE <i>K. Nakahashi, K. Fujiwara, M. Shibahara</i>	COMPARISON OF THE EFFECTS OF TWO DIFFERENT DILUTE SOLUTIONS OF ANTIFREEZE PROTEIN AND IONS ON ICE GROWTH <i>H. Aomatsu, Y. Hagiwara</i>	EXTINGUISHMENT OF POOL FIRE WITH RUBBER BALLOON INFLATED WITH INERT GAS <i>H. Torikai, M. Narita, A. Ito</i>	EXPERIMENT ON GROUND SOURCE HEAT PUMP BASED ON DIRECT EXPANSION <i>S. Ishiguro, T. Takeda, K. Ichimiya, S. Funatani</i>	WETTABILITY ENHANCEMENT USING NANO ALUMINA FOR WICK HEAT PIPE <i>T-L. Phan, M. Mochizuki, Y. Saito, M.S. Ahamed</i>
17:30 –	Departure Time of a Free Shuttle Bus to ANA Crowne Plaza Ube to attend Conference Banquet <i>* After Technical Sessions, all the participants move to ANA Crown Plaza Ube</i>				
18:30 – 21:00	Conference Banquet (ANA Crown Plaza Ube, 3F)				
Monday 4 November, 2013					
8:30	Departure Time of a Free Shuttle Bus to TUSY <i>* All the participants move to TUSY by a free shuttle bus from ANA Crown Plaza Ube and International Hotel Ube.</i>				
9:10 - 10:00	Plenary Lecture 6 : Prof. Yu.A. Kuzma-Kichta, Moscow Power Engineering Institute (Room F on 2nd floor) <i>Boiling Heat Transfer Enhancement on Macro-, Micro- and Nano-Scales</i>				
	<i>Coffee Break on 2nd floor</i>				
	A	B	C	D	E
Monday 4 10:20 - 12:00	Micro- and Nano-Scale Transport II	Heat and Mass Transfer VI	Combustion and Reacting Flows III	Sustainable & Renewable Energy II	Noise and Vibration in Fluid I
	<i>Chair: G. Nagayama</i>	<i>Chair: H. Asano</i>	<i>Chair: J. Ahn</i>	<i>Chair: S. Funatani</i>	<i>Chair: Y. Suzuki</i>

	ELECTRICAL PROPERTIES AND ENERGY BAND STRUCTURE OF INTERFACES BETWEEN NIOBIUM OXIDE AND METALS <i>K. Kaneda, H. Asano, Y. Sakai, M. Takenaga</i>	ON THE EXTENT AND IMPACT OF HTWS IN VOLATILE DROPS ON LOCAL HEAT AND MASS TRANSFER AT SOLID-LIQUID INTERFACES <i>Y. Fukatani, T. Waku, S. Hussain, M. Kohno</i>	EFFECTS OF INHOMOGENEOUS MIXING OF RECIRCULATED EXHAUST GAS IN LEAN PREMIXED FLAME <i>Y. Hirabayashi, M. Komiya, K. Takeishi, Y. Fujita</i>	EXPERIMENTAL STUDY ON THE OPTIMAL TILT ANGLE OF PHOTOVOLTAIC PANELS IN YULIN OF SHAANXI PROVINCE <i>Chen Yan, Cheng Ke, Chen Binglu</i>	AEROACOUSTIC ANALYSIS OF NOISE GENERATION FROM A LARGE SCALE WIND TURBINE BLADE WITH SWEEPED TIP <i>S. Wasala, R. Storey, S. Norris, J. Cater</i>
	SLIDING FRICTION ON SOLID SURFACES WITH FRACTAL STRUCTURE <i>H. Asano, K. Kaneda, M. Takenaga</i>	THE QUENCHING OF STEEL AND ZIRCALOY SPHERES IN DEIONIZED WATER <i>J.C. Wang, S.H. Hsu, M.X. Ho, C. Pan</i>	EFFECT OF IRON ADDITION ON REDUCTION OF UNBURNED CARBON DURING COMBUSTION OF BLENDS OF BITUMINOUS AND SUB-BITUMINOUS COALS <i>M. Ikeda, A. Nakajima, T. Ishikawa, H. Shirai</i>	STUDY ON PERFORMANCE OF A DESICCANT AIR-CONDITIONING SYSTEM WITH SOLAR AIR HEATERS AND AN INDIRECT EVAPORATIVE COOLER <i>M. Koganei, H. Kojima, N. Miura</i>	AERODYNAMIC NOISE CONTROL WITH PLASMA ACTUATORS <i>A. Iida, H. Yokoyama, M. Kusumoto</i>
	MODELLING OF ENERGY TRANSPORT IN SOLID BASED ON BOLTZMANN TRANSPORT EQUATIONS <i>H. Kurata, H. Imanishi, Y. Masao, M. Matsumoto</i>	BOILING HEAT TRANSFER MECHANISMAND ENHANCEMENT OF BOILING HEAT TRANSFER OF WATER UNDER LOW PRESSURE AND LOW BOILING TEMPERATURE <i>K. Oda, H. Ohtake, K. Hasegawa</i>	NUMERICAL INVESTIGATION OF A LEAN DIRECT INJECTION COMBUSTOR USING HYDROGEN <i>J.P. Vriend, D. Dewanji, A. Gangoli Rao</i>	EVALUATION OF A SIMPLE SOLAR HEATING AND VENTILATION SYSTEM FOR A SECTIONAL COMPACT EMERGENCY SHELTER <i>M. Koganei, T. Akimoto, F.Miura, T.Tanaka, K. Nakamasu</i>	STUDY ON INTERACTION NOISE AT DESIGN POINT GENERATED BY TIP VORTEX OF A PROPELLER FAN <i>S. Sasaki, I. Torise, H. Murakami</i>
	RESPONSE OF THIN LIQUID FILM TO NANO-SCALE PROJECTILES <i>T. Nakatani, M. Matsumoto</i>		IMPROVEMENT OF COMBUSTION STABILITY IN NARROW TUBES WITH WIRE MESH <i>F.A. Munir, N. Hatakeda, T. Seo, M. Mikami</i>	HYDROGEN PRODUCTION VIA JATROPHA OIL STEAM REFORMING REACTION AT ATMOSPHERIC CONDITION <i>I.N.G. Wardana, Nurkholis Hamidi</i>	
	SIZE CLASSIFICATION OF CNTS BY DIAMETER AND LENGTH IN LOW PRESSURE <i>Tatsuya Hisatsugu, Kazuhide Shibata, Yasuyuki Takata, Makoto Hirasawa, Takafumi Seto, Masamichi Kohno</i>		A RELATION IF COMBUSTION CHAMBER DEPOSIT FORMATION ON A PISTON OF TWO-STROKE CYCLE ENGINE AND TEMPERATURE INFLUENCES OF LUBRICANT OIL <i>H. Kon, Wei Fei, T. Fukue, K. Hirose, N. Fujita</i>		
12:00 - 13:00	<i>Lunch (All the participants can have a “Japanese Bento (Lunch Box)”</i>)				
Monday 4 13:00 - 14:40	A	B	C	D	E
	Micro- and Nano-Scale Transport III	Heat and Mass Transfer VII	Manufacturing, Materials Processing, and MEMS Application	Sustainable & Renewable Energy III	Noise and Vibration in Fluid II
	<i>Chair: H. Yoshida</i>	<i>Chair: T. Fukue</i>	<i>Chair: T. Tsukahara</i>	<i>Chair: H. Anno</i>	<i>Chair: S. Sasaki</i>
	HEAT TRANSFER INVESTIGATION IN THE MICROCHANNEL WITH NANO-RELIEF <i>Yu.Kuzma-Kichta, K. Suzuki, A.Lavrikov, M.Shustov, S.Scholl</i>	PERFORMANCE EVALUATION FOR THERMAL INSULATION OF A WOODY FACING BUILDING BY MODEL STRUCTURES <i>S. Shoho, Y. Kobuchi, A. Yoshida S. Kinoshita</i>	STUDY ON SEMICONDUCTOR PROCESS GAS CONCENTRATION MEASUREMENT TECHNOLOGY USING ULTRAVIOLET ABSORPTION SPECTROMETRY <i>T. Kitani, Y. Deguchi, M. Nagase, N. Ikeda, M. Yamaji</i>	IN-PLANE THERMAL CONDUCTIVITY OF PEDOT–PSS THIN FILMS <i>H. Hagino, M. Hokazono, K. Miyazaki, H. Anno, N. Tushima</i>	A CONTROL LAW BASED ON THE WAVE NATURE OF GAS FOR THE TESTING EQUIPMENT OF GAS FLOW METERS <i>M. Nakao, T. Kato, T. Oowaku, H. Sakuma, T. Kagawa</i>

	VISUALIZATION AND MEASUREMENT OF THE MICROMIXING FLOW ON A GAS-LIQUID FREE INTERFACE CAUSED BY THE MARANGONI EFFECT <i>T. Yamada, N. Ono</i>	HEAT TRANSFER IN THERMALLY ACTIVATED GYPSUM PLASTER WITH LOW GRADE HEAT SOURCE <i>M. Ostrý, T. Klubal, P. Charvát, L. Klimeš</i>	IMPROVEMENT OF CORROSION RESISTANCE OF STEEL USING MECHANOCHEMICAL CAVITATION <i>T. Yoshimura, K. Sato</i>	FIRST-PRINCIPLES STUDY OF CARRIER-DOPING EFFECTS FOR ELECTRONIC STRUCTURE ON CONDUCTING POLYMERS <i>K. Akai, H. Anno, M. Hokazono, N. Toshima</i>	STUDY OF AERODYNAMIC SOUND GENERATED FROM THE AIRFOIL TIP FLOWS <i>Y. Suzuki, C. Kato</i>
	SINGLE-PHASE AND TWO-PHASE PRESSURE DROPS THROUGH SUDDEN EXPANSION IN RECTANGULAR MICROCHANNEL <i>Wen Zhe Law, Hiroki Kurihara, Haslinda Kusumaningish Akimaro Kawahara, Michio Sadatomi</i>	SIMULTANEOUS MEASUREMENTS OF UNSTEADY THERMAL AND FLOW FIELDS IN A TURBULENT BOUNDARY LAYER USING HIGH-SPEED INFRARED THEMOGRAPH AND PIV <i>S. Yamada, H. Nakamura</i>	EXPERIMENTAL CONFIRMATIONS OF MEMS BASED SENSOR FOR FLOW DIRECTION AND WALL SHEAR STRESS <i>T. Ota, S. Kimura, Y. Kanaoka, T. Kiwata, N. Komatsu, T. Kono</i>	ORGANIC THERMOELECTRIC MATERIALS FOR SUSTAINABLE AND RENEWABLE ENERGY <i>Naoki Toshima</i>	CHARACTERISTICS OF AERODYNAMIC NOISE RADIATED AIRFLOW WITH CHANGING TURBULENCE INTENSITY AND EDDY SCALE OF INFLOW <i>N. Kobayashi, Y. Suzuki, K. Yamamoto, K. Nishimura, C. Kato</i>
	MEASUREMENT OF FRICTION FACTORS OF GAS FLOW THROUGH MICROTUBES <i>S. Matsushita, C. Hong, Y. Asako</i>	TIME-RESOLVED 2D TEMPERATURE MEASUREMENT IN ENGINE EXHAUSTS USING CT-TUNABLE DIODE LASER ABSORPTION SPECTROSCOPY <i>T. Kamimoto, Y. Deguchi, N. Zhang, J. Zhang</i>	WATER PROPAGATION CHARACTERISTICS OF HEXAGONALLY ARRANGED NANOPILLAR SURFACE <i>Hwanseong Lee, Dong Il Shim, Sangwoo Shin, Beom Seok Kim, Hyung Hee Cho</i>	THERMAL STABILITY AND THERMOELECTRIC PROPERTIES OF SILICON CLATHRATES FOR WASTE HEAT RECOVERY <i>H. Anno, R. Shirataki</i>	
			PARTICLE TRANSPORT AND SEPARATION IN MICROFLUIDIC DEVICES USING FIELD FLOW FRACTIONATION <i>Nipu Modak, Amitava Datta, Ranjan Ganguly</i>	FABRICATION AND CHARACTERIZATION OF FLEXIBLE THERMOELECTRIC DEVICES USING CONDUCTING POLYMER <i>T. Nishinaka, M. Hokazono, H. Anno, N. Toshima</i>	
<i>Coffee Break on 2nd floor</i>					
15:00 -	Closing on the 2nd Floor (Room F)				
15:30 -	Departure Time of a Free Shuttle Bus to ANA Crowne Plaza Ube and International Hotel Ube <i>* After Technical Sessions, all the participants move to ANA Crown Plaza Ube and International Hotel Ube</i>				
Tuesday 5 November, 2013					
9:30 (Departure) -16:00	<u>EXCURSION (Akiyoshidai & Hagi)</u> All the persons who register to attend this excursion at the conference desk will leave ANA Crowne Plaza Ube at 9:45 am. (The first 40 persons can have seats of a bus.)				