

ISMTMF17 Session Overview				
Sunday (December 3, 2017)				
15:00pm - 17:30pm	Registration			
Monday (December 4, 2017)				
8:45am - 9:00am	Registration			
9:00am - 9:10am	Welcoming Remarks (Charles W.W. NG, Associate Vice-President, Research and Graduate Studies)			
9:10am - 9:20am	Opening Speech by Symposium Chairs:			
9:20am - 10:10am	Plenary Lecture: Martin Sommerfeld (LT-J) Chair: Christopher YH Chao			
10:10am - 11:00am	Plenary Lecture: Tianshou Zhao (LT-J) Chair: Cai Xiaoshu			
11:00am - 11:30am	Group Photo and Coffee break			
11:30am - 12:20pm	Plenary Lecture: Yuichi Murai (LT-J) Chair: Shigeo Hosokawa			
12:20pm - 13:50pm	Lunch (G/F Restaurant)			
	Experimental methods for multiphase flow (1)	Tomography and visualization techniques (1)	Micro/Nano technology and Micro/Nano flows (1)	Optical, non-intrusive techniques (1)
14:00pm - 16:00pm	MON1-A1-ISMTMF-R001-001	MON1-B1-ISMTMF-R001-013	MON1-C1-ISMTMF-R001-079	MON1-D1-ISMTMF-R001-005
	MON1-A2-ISMTMF-R001-007	MON1-B2-ISMTMF-R001-070	MON1-C2-ISMTMF-R001-074	MON1-D2-ISMTMF-R001-027
	MON1-A3-ISMTMF-R001-016	MON1-B3-ISMTMF-R001-048	MON1-C3-ISMTMF-R001-102	MON1-D3-ISMTMF-R001-038
	MON1-A4-ISMTMF-R001-018	MON1-B4-ISMTMF-R001-075	MON1-C4-ISMTMF-R001-113	MON1-D4-ISMTMF-R001-049
	MON1-A5-ISMTMF-R001-099	MON1-B5-ISMTMF-R001-040	MON1-C5-ISMTMF-R001-041	MON1-D5-ISMTMF-R001-020
	MON1-A6-ISMTMF-R001-213	MON1-B6-ISMTMF-R001-225	MON1-C6-ISMTMF-R001-044	MON1-D6-ISMTMF-R001-083
16:00pm - 16:15pm	Coffee break			
	Experimental methods for multiphase flow (2)	Tomography and visualization techniques (2)	Micro/Nano technology and Micro/Nano flows (2)	Optical, non-intrusive techniques (2)
16:15pm - 18:15pm	MON2-A1-ISMTMF-R001-017	MON2-B1-ISMTMF-R001-104	MON2-C1-ISMTMF-R001-125	MON2-D1-ISMTMF-R001-064
	MON2-A2-ISMTMF-R001-096	MON2-B2-ISMTMF-R001-111	MON2-C2-ISMTMF-R001-222	MON2-D2-ISMTMF-R001-076
	MON2-A3-ISMTMF-R001-022	MON2-B3-ISMTMF-R001-219	MON2-C3-ISMTMF-R001-224	MON2-D3-ISMTMF-R001-082
	MON2-A4-ISMTMF-R001-215	MON2-B4-ISMTMF-R001-221	MON2-C4-ISMTMF-R001-228	MON2-D4-ISMTMF-R001-085
	MON2-A5-ISMTMF-R001-029	MON2-B5-ISMTMF-R001-084	MON2-C5-ISMTMF-R001-112	MON2-D5-ISMTMF-R001-054
	MON2-A6-ISMTMF-R001-030	MON2-B6-ISMTMF-R001-100	MON2-C6-ISMTMF-R001-229	MON2-D6-ISMTMF-R001-063
18:15pm - 20:30pm	Welcome Reception Dinner (G/F Restaurant)			
Tuesday (December 5, 2017)				
9:00am - 9:50am	Plenary Lecture: Cameron Tropea (LT-J) Chair: Huihe Qiu			
9:50am-10:40am	Plenary Lecture: Hui Hu (LT-J) Chair: Koichi Hishida			
10:40am - 10:55am	Coffee break			
	Experimental methods for multiphase flow (3)	Fundamentals of measurement techniques (1)	Novel sensors and measurement methods (1)	Optical, non-intrusive techniques (3)
10:55am - 12:35pm	TU1-A1-ISMTMF-R001-037	TU1-B1-ISMTMF-R001-021	TU1-C1-ISMTMF-R001-042	TU1-D1-ISMTMF-R001-217
	TU1-A2-ISMTMF-R001-039	TU1-B2-ISMTMF-R001-023	TU1-C2-ISMTMF-R001-015	TU1-D2-ISMTMF-R001-101
	TU1-A3-ISMTMF-R001-043	TU1-B3-ISMTMF-R001-052	TU1-C3-ISMTMF-R001-051	TU1-D3-ISMTMF-R001-087
	TU1-A4-ISMTMF-R001-045	TU1-B4-ISMTMF-R001-008	TU1-C4-ISMTMF-R001-026	TU1-D4-ISMTMF-R001-089
	TU1-A5-ISMTMF-R001-036	TU1-B5-ISMTMF-R001-011	TU1-C5-ISMTMF-R001-032	TU1-D5-ISMTMF-R001-110
12:35pm - 14:00pm	Lunch (G/F Restaurant)			
	Experimental methods for multiphase flow (4)	Fundamentals of measurement techniques (2)	Novel sensors and measurement methods (2)	Optical, non-intrusive techniques (4)
14:00pm - 16:00pm	TU2-A1-ISMTMF-R001-046	TU2-B1-ISMTMF-R001-066	TU2-C1-ISMTMF-R001-091	TU2-D1-ISMTMF-R001-117
	TU2-A2-ISMTMF-R001-055	TU2-B2-ISMTMF-R001-068	TU2-C2-ISMTMF-R001-092	TU2-D2-ISMTMF-R001-119
	TU2-A3-ISMTMF-R001-056	TU2-B3-ISMTMF-R001-206	TU2-C3-ISMTMF-R001-093	TU3-D3-ISMTMF-R001-208
	TU2-A4-ISMTMF-R001-059	TU2-B4-ISMTMF-R001-103	TU3-C4-ISMTMF-R001-065	TU3-D4-ISMTMF-R001-209
	TU2-A5-ISMTMF-R001-205	TU2-B5-ISMTMF-R001-122	TU2-C5-ISMTMF-R001-060	TU2-D5-ISMTMF-R001-114
	TU2-A6-ISMTMF-R001-071	TU2-B6-ISMTMF-R001-201	TU1-C6-ISMTMF-R001-019	TU2-D6-ISMTMF-R001-124
16:00pm - 16:15pm	Coffee break			
	Experimental methods for multiphase flow (5)	Fundamentals of measurement techniques (3)	Other advanced measurement techniques (1)	Optical, non-intrusive techniques (5)
16:15pm - 17:55pm	TU3-A1-ISMTMF-R001-078	TU3-B1-ISMTMF-R001-080	TU3-C1-ISMTMF-R001-067	TU3-D1-ISMTMF-R001-214
	TU3-A2-ISMTMF-R001-003	TU3-B2-ISMTMF-R001-226	TU3-C2-ISMTMF-R001-118	TU3-D2-ISMTMF-R001-207
	TU3-A3-ISMTMF-R001-081	TU3-B3-ISMTMF-R001-212	TU3-C3-ISMTMF-R001-227	TU3-D3-ISMTMF-R001-086
	TU3-A4-ISMTMF-R001-203	TU3-B4-ISMTMF-R001-090	TU3-C4-ISMTMF-R001-072	TU3-D4-ISMTMF-R001-218
	TU3-A5-ISMTMF-R001-058	TU3-B5-ISMTMF-R001-210	TU3-C4-ISMTMF-R001-095	TU3-D5-ISMTMF-R001-200
17:55pm - 21:00pm	Symposium Banquet			

Wednesday (December 6, 2017)				
	Experimental methods for multiphase flow (6)	Computational methods for multiphase flow (1)	Information technology for multiphase flow	Ultrasound/Acoustic techniques
9:00am - 10:40am	WE1-A1-ISMTMF-R001-216	WE1-B1-ISMTMF-R001-004	WE1-C1-ISMTMF-R001-010	WE1-D1-ISMTMF-R001-223
	WE1-A2-ISMTMF-R001-106	WE1-B2-ISMTMF-R001-025	WE1-C2-ISMTMF-R001-002	WE1-D2-ISMTMF-R001-057
	WE1-A3-ISMTMF-R001-108	WE1-B3-ISMTMF-R001-035	WE1-C3-ISMTMF-R001-211	WE1-D3-ISMTMF-R001-069
	WE1-A4-ISMTMF-R001-126	WE1-B4-ISMTMF-R001-097	WE1-C4-ISMTMF-R001-120	WE1-D4-ISMTMF-R001-088
	WE1-A5-ISMTMF-R001-115	WE1-B5-ISMTMF-R001-031	WE1-C5-ISMTMF-R001-105	WE1-D5-ISMTMF-R001-006
10:40am - 10:55am	Coffee break			
	Experimental methods for multiphase flow (7)	Computational methods for multiphase flow (2)	Novel sensors and measurement methods (3)	Other advanced measurement techniques (2)
10:55pm - 11:55pm	WE2-A1-ISMTMF-R001-024	WE2-B1-ISMTMF-R001-047	WE2-C1-ISMTMF-R001-202	WE2-D1-ISMTMF-R001-220
	WE2-A2-ISMTMF-R001-014	WE2-B2-ISMTMF-R001-050	WE2-C2-ISMTMF-R001-107	WE2-D2-ISMTMF-R001-116
		WE2-B3-ISMTMF-R001-077	WE2-C3-ISMTMF-R001-109	WE2-D3-ISMTMF-R001-121
12:00pm - 13:30pm	Lunch			
13:30pm - 16:30pm	Campus Tour			
18:00pm - 20:00pm	Invited Dinner (By Invitation Only)			
Thursday (December 7, 2017)				
9:00am - 11:00am	HKUST Lab Visit and Technical Tour			
Remarks:	Room A = Lectrue Theater J	Room B = Lectrue Theater K	Room C = Room 5619	Room D = Room 5620
	Session Description: Example for MON1-A1-ISMTMF-R001-001:			
	MON1----Monday, 1st Session			
	A1---The first paper in Room A (Lecture Theater J)			
	ISMTMF-R001-001--- Paper ID			

ISMTMF'17 PROGRAM

Sunday (December 3, 2017)

15:00 pm – 17:30 pm **Registration** Venue: **Front Desk of LTJ**

Monday (December 4, 2017)

08:30 am - 09:00 am **Registration** Venue: **Front Desk of LTJ**

09:00 am - 09:10 am **Welcoming Remarks (Charles W.W. NG)** Venue: **LTJ**

09:10 am - 09:20 am **Opening Speech (Symposium Chairs)** Venue: **LTJ**

Plenary Lecture (MON-P1) **Chair: Christopher YH Chao** Venue: **LTJ**

09:20 am - 10:10 am *Multi-scale experimental analysis of binary droplet collisions*, Martin Sommerfeld.....ii

Plenary Lecture (MON-P2) **Chair: Xiaoshu Cai** Venue: **LTJ**

10:10 am - 11:00 am *Tackling Challenges in Energy Storage Using Thermo-Fluid Science*, Tianshou ZhaoV

11:00 am - 11:30 am **Group Photo and Coffee Break**

Plenary Lecture (MON-P3) **Chair: Shigeo Hosokawa** Venue: **LTJ**

11:30 am - 12:20 pm *Velocity profiling rheometry for dispersed multiphase fluids*, Yuichi Muraivi

12:25 pm – 13:55 pm **Lunch**

Session MON1-A Experimental methods for multiphase flow (1) Venue: **LTJ**

(14:00pm - 16:00pm) Chairs: Lixing Zhou and Hosei Nagano

14:00pm - 14:20pm	(MON1-A1) <i>Developing Measurement and Simulation of Swirling Gas-Particle Flows</i> , Lixing Zhou (ISMTMF-R001-001).....2
14:20pm - 14:40pm	(MON1-A2) <i>Experimental studies of droplet deformation and breakup in ethanol-oil system in a DC electric field</i> , Dongbao Wang, Junfeng Wang, Hailong Liu, Weihan Hu (ISMTMF-R001-007).....3
14:40pm - 15:00pm	(MON1-A3) <i>Removal efficiency of pollutant and microbial community structure with filter material increased in up-flow BAF</i> , Jiehui Ren, Wen Cheng, Tian Wan, Min Wang, Meng Jiao, Ting Meng, Xiaohan Zhang (ISMTMF-R001-016).....4
15:00pm - 15:20pm	(MON1-A4) <i>Effect of aerated stomatic distribution on bubble plume movement in a cylindrical aerated tank</i> , Tian Wan, Wen Cheng, Jiehui Ren, Min Wang, Ting Meng, Ying Wang (ISMTMF-R001-018).....5
15:20pm - 15:40pm	(MON1-A5) <i>The study on the degradation of ofloxacin in aquatic by using US / H₂O₂ and UV / H₂O₂</i> , Meng Ting, Cheng Wen, Wang Min, Wan Tian, Wang Ying (ISMTMF-R001-099).....6
15:40pm - 16:00pm	(MON1-A6) <i>A Measurement Method for Bubble Bouncing Behaviors on the Electrode Surface under Chopping</i> , Z. Cao, L. Guo, Y. Wang, J. Chen (ISMTMF-R001-213).....7

Session MON1-B Tomography and visualization Techniques (1) Venue: **LTK**

(14:00pm - 16:00pm) Chairs: Feng Dong and Huaxiang Wang

14:00pm - 14:20pm	(MON1-B1) <i>Real-time Two Dimensional Imaging of Gas/Solid Multiphase Using An Electrical Capacitance Tomography System</i> , Min Ma and Chaoqi Yan (ISMTMF-R001-013).....10
14:20pm - 14:40pm	(MON1-B2) <i>Position Information Matrix Method for Ultrasound Transmission Tomography</i> , Wei Zhang, Chao Tan and Feng Dong (ISMTMF-R001-070).....11
14:40pm - 15:00pm	(MON1-B3) <i>A novel calibration method for electrical capacitance tomography applying in high-temperature gas-solid fluidized bed</i>

	<i>measurement</i> , Qiang Guo, Shuanghe Meng, Mao Ye, Wuqiang Yang and Zhongmin Liu (ISMTMF-R001-048).....	12
15:00pm - 15:20pm	(MON1-B4) <i>Incomplete Electrode Array for Electrical Capacitance Tomography</i> , Benyuan Sun, Ziqiang Cui, Shihong Yue and Huaxiang Wang (ISMTMF-R001-075).....	13
15:20pm - 15:40pm	(MON1-B5) <i>Six-layer color tomographic imaging of 3-D mist density distribution</i> , Yuhei Sugano, Hyun Jin Park, Yuji Tasaka, Yuichi Murai (ISMTMF-R001-040).....	14
15:40pm - 16:00pm	(MON1-B6) <i>A New Image Reconstruction Method for Electrical Resistance Tomography Based on Inverse Radon Transform</i> , Xin Gao, Zhang Cao, and Lijun Xu (ISMTMF-R001-225).....	16

Session MON1-C Micro/Nano Technology and Micro/Nano Flows (1) Venue: 5619

(14:00pm - 16:00pm) Chairs: Zhiyao Huang and Dezhong Wang

14:00pm - 14:20pm	(MON1-C1) <i>Reduction of skin friction drag using patterned superhydrophobic surface</i> , Bingfu Zhang, Hui Tang and Sandy To (ISMTMF-R001-079).....	18
14:20pm - 14:40pm	(MON1-C2) <i>Experimental study on three dimensional bubble shape evolution in swirling flow</i> , Tingting Zhang Junlian Yin and Dezhong Wang (ISMTMF-R001-074).....	19
14:40pm - 15:00pm	(MON1-C3) <i>Void fraction and pressure drop measurement of gas-liquid slug flow in square microchannels</i> , Ryo Kurimoto, Yusuke Deguchi, Hisato Minagawa and Takahiro Yasuda (ISMTMF-R001-102).....	20
15:00pm - 15:20pm	(MON1-C4) <i>Effect of surface properties on quenching characteristics of high-temperature body</i> , Yutaro Umehara, Koji Enoki, Wei Liu, Tomio Okawa (ISMTMF-R001-113).....	22
15:20pm - 15:40pm	(MON1-C5) <i>Deformation and breakup of droplets covered with viscoelastic film in microfluidic channel</i> , Xiaoxiao Han, Zhengyuan Luo and Bofeng Bai (ISMTMF-R001-041).....	23
15:40pm - 16:00pm	(MON1-C6) <i>Experimental study on particle trapping in a microchannel using gas-liquid interface</i> , Yukinobu Ohnishi, Atsuhide Kitagawa, Petr Denissenko and Yuichi Murai (ISMTMF-R001-044).....	24

Session MON1-D Optical, non-intrusive techniques (1)

Venue: **5620**

(14:00pm - 16:00pm) Chairs: Chuanlong Xu and Hyun Jin Park

- 14:00pm - 14:20pm (MON1-D1) *Measurement the release characteristic of K and Na during single particles of biomass combustion using flame emission spectrum*, Weijie Yan and Chun Lou (ISMTMF-R001-005).....27
- 14:20pm - 14:40pm (MON1-D2) *Voxel-rainbow visualizations of mutual interactions between microbubbles and turbulent vortical structures on a vertical plate*, Daichi Saito, Hyun Jin Park, Yuji Tasaka, Yuichi Murai (ISMTMF-R001-027).....28
- 14:40pm - 15:00pm (MON1-D3) *Thermal stratification pattern of smoke flow of tunnel fires with longitudinal ventilation*, Tonghui Jiang, Xishi Wang, Haiyong Cong, Pei Zhu (ISMTMF-R001-038).....30
- 15:00pm - 15:20pm (MON1-D4) *Measurement of subcooled boiling flow and three-dimensional reconstruction of bubble transport behavior*, Atsushi Ui, Masahiro Furuya, Hiroki Takiguchi, Kenetsu Shirakawa, Takahiro Arai and Kenichi Katono (ISMTMF-R001-049).....31
- 15:20pm - 15:40pm (MON1-D5) *Study of Tomographic Particle Image Velocimetry Based on Dual Light Field Camera*, Lixia Cao, Chuanlong Xu, Biao Zhang, Shimin Wang (ISMTMF-R001-020).....32
- 15:40pm - 16:00pm (MON1-D6) *Combined PIV and PTV measurements of particle-laden gravity current*, Zhuang Su and Cunbiao Lee (ISMTMF-R001-083)....33
- 16:00pm - 16:15pm **Coffee break**

Session MON2-A Experimental methods for multiphase flow (2)

Venue: **LTJ**

(16:15pm - 18:15pm) Chairs: Bofeng Bai and Yongrong Yang

- 16:15pm - 16:35pm (MON2-A1) *Measurements of electrostatic potential distribution in the multi-zone circulation reactors for polypropylene*, Yao Yang, Shiyi Ge, Zhedong Lou, Jingyuan Sun, Jingdai Wang, Zhengliang Huang and Yongrong Yang (ISMTMF-R001-017).....35

16:35pm - 16:55pm	(MON2-A2) <i>Turbulent Property of Air-Water Bubbly Flow in a 2X2 Rod Bundle</i> , Shigeo Hosokawa and Akio Tomiyama (ISMTMF-R001-096).....37
16:55pm - 17:15pm	(MON2-A3) <i>Investigations into CO₂ transient behaviors in a horizontal pipeline during flexible CCS operation</i> , Wenbiao Zhang, Hongchao Wang, Ding Shao, Shi Liu, Yong Yan and Tao Wang (ISMTMF-R001-022).....38
17:15pm - 17:35pm	(MON2-A4) <i>Research on division characteristics and mechanism of slurry pipeline in complex terrain</i> , Jun Ma, Jiande Wu, Bo Ye, Xin Xiong, Weiquan Deng, Jun Bao, (ISMTMF-R001-215).....39
17:35pm - 17:55pm	(MON2-A5) <i>Pressure drop of wet gas with low liquid loading flowing through DP meters</i> , Xuebo Zheng and Bofeng Bai (ISMTMF-R001-029).....40
17:55pm - 18:15pm	(MON2-A6) <i>Experimental and numerical investigation of erosion by liquid-solid impinging jet</i> , Yanlin Zhao, Jun Yao, Shaoheng Ge and Zihua Zeng (ISMTMF-R001-030).....41

Session MON2-B Tomography and visualization Techniques(2)

Venue: LTK

(16:15pm - 18:15pm) Chairs: Lijun Xu and Min Ma

16:15pm - 16:35pm	(MON2-B1) <i>Visualization on the Evolution of Electro-spraying of Ethanol with Double-capillary</i> , Lei Xia, Zhentao Wang, Junfeng Wang, Yuanping Huo, Huibin Xu (ISMTMF-R001-104).....43
16:35pm - 16:55pm	(MON2-B2) <i>Visualization of Two-Phase Flow through a Packed Bed of Spheres in a Circular Pipe</i> , Daisuke Ito, Milka Nava Rivera, Kei Ito, Yasushi Saito, Mitsuhiro Aoyagi, Kenichi Matsuba and Kenji Kamiyama (ISMTMF-R001-111).....44
16:55pm - 17:15pm	(MON2-B3) <i>Design of High Temperature Resistant ECT Sensor applied in Combustion Monitoring Experiment</i> , Die Hu, Lijun Xu, Jiangtao Sun, Zhang Cao and Shijie Sun (ISMTMF-R001-219).....46
17:15pm - 17:35pm	(MON2-B4) <i>Hardware design of a high-speed multi-channel electrical capacitance tomography system</i> , Ang Huang, Zhang Cao, Lijun Xu and Shijie Sun (ISMTMF-R001-221).....47

17:35pm - 17:55pm	(MON2-B5) <i>Space optimization of multi-plane sensor for 3D EIT</i> , Zhenhua Hao, Shihong Yue, Ziqiang Cui and Huaxiang Wang (ISMTMF-R001-084).....	48
17:55pm - 18:15pm	(MON2-B6) <i>Visualization of Internal Flow for Loop Heat Pipe under Microgravity</i> , Hosei Nagano and Yuta Matsuda (ISMTMF-R001-100).....	49

Session MON2-C Micro/Nano Technology and Micro/Nano Flows (2) Venue: 5619

(16:15pm - 18:15pm) Chairs: Zhigang Li and Tomio Okawa

16:15pm - 16:35pm	(MON2-C1) <i>Spreading characteristics of nanofluids droplet impinging on the solid surface</i> , Hai-long Liu, Rui Wang, Xue-chong Ding, Xue-feng Shen, Jun-feng Wang (ISMTMF-R001-125).....	51
16:35pm - 16:55pm	(MON2-C2) <i>Scale up Synthesis of Mono Disperse Nickel Ferrite NiFe₂O₄ Nanoparticles by Microwave Combustion Method</i> , Muhammad Imran Din (ISMTMF-R001-222).....	52
16:55pm - 17:15pm	(MON2-C3) <i>Surface and Temperature Effects on Heterogeneous Ice Nucleation</i> , Chu Li, Xiang Gao, and Zhigang Li (ISMTMF-R001-224).....	53
17:15pm - 17:35pm	(MON2-C4) <i>Improving Droplet Impact Performance by Doubly Re-entrant Closed-cell Surfaces</i> , Dong Liao, Minghao He and Huihe Qiu (ISMTMF-R001-228).....	54
17:35pm - 17:55pm	(MON2-C5) <i>Influence of in-phase pulsed flow to stream in T-microchannels</i> , Aleksandra Kravtsova and Yury Meshalkin (ISMTMF-R001-112).....	55
17:55pm - 18:15pm	(MON2-C6) <i>Bubble Dynamics in a Flow Boiling Microchannel with Chemically Patterned Surfaces</i> , Hongzhao Wang and Huihe Qiu (ISMTMF-R001-229).....	56

Session MON2-D Optical, non-intrusive techniques (2)

Venue: 5620

(16:15pm - 18:15pm) Chairs: Huaichun Zhou and Hui Tang

16:15pm - 16:35pm	(MON2-D1) <i>Measurement of temperature and soot volume fraction of an axisymmetric ethylene laminar flame using a hyper-spectral imaging device</i> , Huawei Liu and Huaichun Zhou (ISMTMF-R001-064).....58
16:35pm - 16:55pm	(MON2-D2) <i>Research on the On-Line Measurement Technology of Pulverized Coal Particle Size Distribution Based on Automatic Sampling Image Method</i> , Guoxun Wu, Xiaobin Huang, Jiemin Ye and Yang Liu (ISMTMF-R001-076).....59
16:55pm - 17:15pm	(MON2-D3) <i>Application of Photobleaching Molecular Tagging Velocimetry to highly concentrated particle flow</i> , Motoki Koyama, Tomoaki Watamura, Fumiya Iwatsubo and Kazuyasu Sugiyama (ISMTMF-R001-082).....60
17:15pm - 17:35pm	(MON2-D4) <i>Development of Micro Bubble Size Classification Device by Control of External Forces</i> , Akira Nakashima, Koichi Hishida (ISMTMF-R001-085).....61
17:35pm - 17:55pm	(MON2-D5) <i>Refocusing of Light Field Images for Particles Based on Hexagon Splicing and Size Change Algorithm</i> , Yuanchi Ma, Wu Zhou, Tianlei Qian, Xiaoshu Cai (ISMTMF-R001-054).....63
17:55pm - 18:15pm	(MON2-D6) <i>Experimental study on the effect of high temperature and high pressure on flow characteristics in a bubbling fluidized bed via visual image</i> , Lin Li, Lunbo Duan, Yuanqiang Duan, Weijia Zheng, Chuanlong Xu (ISMTMF-R001-063).....64
18:15pm - 20:30pm	Welcome Reception Dinner (G/F Restaurant)

Tuesday (December 5, 2017)

Plenary Lecture (TUE-P4)	Chair: Huihe Qiu	Venue: LTJ
09:00 am - 09:50 am	<i>Visualization for Spray Physics</i> , Cameron Tropeavii	
Plenary Lecture (TUE-P5)	Chair: Koichi Hishida	Venue: LTJ
09:50 am - 10:40 am	<i>Development of Advanced Measurement Techniques to Characterize Multiphase Flows Pertinent to Aircraft Icing Phenomena</i> , Hui Huviii	

10:40am – 10:55am Coffee Break

Session TU1-A Experimental methods for multiphase flow (3)

Venue: **L TJ**

(10:55am - 12:35pm) Chairs: Xishi Wang and Yasuhiro Sugimoto

10:55am - 11:15am	(TU1-A1) <i>PIV measurement of the interaction of water mist spray with a tilted gas jet</i> , Pei Zhu, Xishi Wang, Yangpeng Liu, Guochun Li (ISMTMF-R001-037).....	66
11:15am - 11:35am	(TU1-A2) <i>On the Deterministic and Random Nature of Droplet Preferential Concentration in a ‘Box of Turbulence’</i> , Huan Lian and Yannis Hardalupas (ISMTMF-R001-039).....	67
11:35am - 11:55am	(TU1-A3) <i>Heat transfer enhancement of natural convection from a vertical heated plate by a combination of bubble injection and functional plates</i> , Atsuhide Kitagawa, Nakatani Mitsuhiro, Yutarō Nagai and Yuichi Murai (ISMTMF-R001-043).....	69
11:55am - 12:15pm	(TU1-A4) <i>Experimental study on oil-water swirling flow in a horizontal pipe</i> , Hua Li, Shiyang Shi and Yingxiang Wu (ISMTMF-R001-045)...	71
12:15pm - 12:35pm	(TU1-A5) <i>Measurement of the condensation liquid film in the supersonic vapor behind the shock wave</i> , Haidong Zhu (ISMTMF-R001-036).....	72

Session TU1-B Fundamentals of measurement techniques (1)

Venue: **L TK**

(10:55am - 12:35pm) Chairs: Masahiro Takei and Nan Gao

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Thursday (December 7, 2017)

9:00am - 11:00am HKUST Lab Visit and Technical Tour

Or

9:00am – 18:00pm Visit University of Macau