

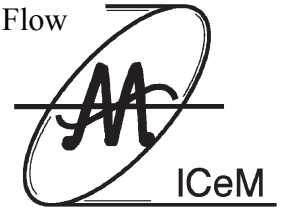


The International Information Center for Multiphase Flow

NEWSLETTER

No. 47, March 2017

The Japanese Society for Multiphase Flow



10th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering (ISUD 10) September 28-30, 2016, Tokyo, Japan

by Hiroshige Kikura

The 10th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering (ISUD 10) was held at Tokyo Institute of Technology, Tokyo, Japan from September 28 to September 30, 2016. The supporting organizations of this symposium were Laboratory for Advanced Nuclear Energy Tokyo Institute of Technology and the Visualization Society of Japan. The symposium was also sponsored by MET-FLOW SA, Ubertone, JAPAN PROBE, Flow-Viz AB, Kyokuto Boeki Kaisha, Ltd., and FlowBiz Research Inc..

The main focus of this symposium is to bring scientists, engineers, researchers, and students from the fields of ultrasonic technology and facilitate them for an exchange of the new innovations and ideas on a utilization of measurement devices based on pulsed ultrasonic Doppler. The symposium is held every two years and ISUD 10 was attended by 62 academics and professionals that came from 10 countries. The



Photo 1 Group photo of ISUD 10 participants.

number of participating researchers keeps increasing for each time the biennial symposium is held. This shows accretion of interest on ultrasonic technology from all over the world.

There were 2 keynote lectures, 1 special lecture, and 37 technical oral presentations were presented in

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ISUD10. The keynote lectures were given by the following invited speakers: Dr. Robert Malkin (University of Bristol) and Prof. Yoshikazu Koike (Shibaura Institute of Technology). In addition, Prof. Gen Endo from Tokyo Institute of Technology was invited to provide a special lecture entitled "Access Technology Using Robot for Decommissioning Tasks in which Integration of Robotics and Ultrasonic Doppler Method". The 37 papers were divided up into 6 technical sessions: Applied Flows, Next Generation UVP, Signal Processing and Methodology, Flow Metering and Flow Mapping, Fundamental Flows, and Environmental Flows.

The symposium began on Wednesday morning (September 28) with the opening presentation about UVP history and future which was delivered by Prof. Takeda, a pioneer of ultrasonic measurement in the fluid engineering field, followed by a first keynote lecture by Dr. R. Malkin. He presented an outstanding presentation of his paper, "Non-destructive Inspection and sub-wavelength characterization". Then followed by first technical session and welcome reception. The second day on Thursday began with the second keynote lecture. On the second keynote lecture, Prof.

Yoshikazu Koike presented his research entitled "Positioning and navigation for free-fall type underwater observation system", he had enlightened the measurement in the deep sea, and were followed by technical session the rest of the day with memorable evening dinner on Yakabutane Cruising around famous area in Tokyo, Asakusa. Last day on Friday, last 2 technical sessions was held and followed by a special lecture from Prof. Endo. The closing session which was delivered by Prof. Kikura and Prof. Windhab. Among 12 students' presentations, the scientific committee had evaluated the papers and the oral presentations. The winner of the Ubertone Student Award was Mr. Damien Dufou from ETH Zürich. Last but not least, after the closing ceremony, all participants had an opportunity to join a laboratory tour in Laboratory for Advanced Nuclear Energy Tokyo Institute of Technology.

Hiroshige Kikura, Associate Professor
Chair of ISUD 10
Tokyo Institute of Technology
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10th Japan-Korea Symposium on Nuclear Thermal Hydraulics and Safety (NTHAS10) November 27-30, 2016, Kyoto, Japan

by Tomoaki Kunugi

The 10th Japan-Korea Symposium on Nuclear Thermal hydraulics and Safety (NTHAS10) was held from 27-30, November 2016 at Mielparque Kyoto, Kyoto, Japan. This symposium was founded and has been organized by the thermal hydraulics divisions of the AESJ and the KNS in two neighbor countries. Since the first symposium (NTHAS1) in Busan, Korea in 1998, NTHAS has provided a unique opportunity to discuss up-to-date technical information and to interact with colleagues from the neighboring countries. The second to ninth meetings were held in Fukuoka (2000), Gyeongju (2002), Sapporo (2004), Jeju (2006), Okinawa (2008), Chuncheon (2010), Beppu (2012) and Buyeo (2014) with great success in technical quality and number of participants.

More than 180 researchers participated in the NTHAS10. NTHAS10 covered wide range of the

topics on nuclear thermal hydraulics and safety: Track1: Two-Phase Flow Experiments and Analysis, Track2: CFD and V&V, Track3: Severe Accident Experiments and Analysis, Track4: Hydrogen Behavior and Combustion, Track5: Water Reactor Thermal Hydraulics and Safety, Track6: Liquid Metal Reactor Thermal Hydraulics and Safety, Track7: Gas Cooled Reactor & Fusion Reactor Thermal Hydraulics and Safety. The technical program committee selected 102 presentations, invited 2 Plenary lectures and 4 Keynote lectures.

In the banquet, "Geiko(Geisha)" and "Maiko" were invited. At the beginning of the banquet, they played the traditional dances and after that, most of the participants enjoyed the talks with them during the dinner (Photo 2).



Photo 1 Group photo

In the closing session, four panelists addressed their opinions regarding “Perspectives of Japan-Korea nuclear engineering network and NTHAS” and was discussed with the audiences. Finally, the candidate site of next NTHAS in Korea was announced.

Finally, I would like to thank to all the Organizing Committee members, Technical Program Committee members and Local Organizing Committee members in both countries.



Photo 2 Banquet with “Maiko”

Tomoaki Kunugi, Professor
General Chair of NTHAS10
Kyoto University
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Obituaries

It is with deep sadness that we inform you that

Professor Iztok Žun (University of Ljubljana) passed away on October 22, 2016 at the age of 70, and that

Professor Ulrich Müller (Karlsruhe Institute of Technology) passed away on January 27, 2017 at the age of 82.

We would like to express our sincere appreciation for their enormous contributions and to offer our deepest sympathies.

Future Meetings

Following list includes conference name, place, date and contact information.

The 6th International Symposium on Micro and Nano Technology (ISMNT-6)

Fukuoka, Japan, March 19 - 22, 2017

Chair: K. Takahashi (Kyushu University)

Chair: X. Zhang (Tsinghua University)

<http://ismnt-6.org/>

Asian Conference on Thermal Sciences 2017 (1st ACTS)

Jeju, South Korea, March 26 - 30, 2017

Chair: S. J. Kim (KAIST)

<http://acts2017.org/>

2nd Thermal and Fluids Engineering Conference (TFEC) and 4th International Workshop on Heat Transfer (IWHT)

Las Vegas, Nevada, USA, April 2 - 5, 2017

Chair: F. Battaglia (Virginia Tech)

<http://www.astfe.org/tfec2017/>

The 5th IIR International Conference on Thermophysical Properties and Transfer Processes of Refrigerants (TPTPR2017)

Seoul, South Korea, April 23 - 26, 2017

Chair: Y. T.Kang (Korea University)

Chair: M.S. Kim (Seoul National University)

<http://tptpr2017.org/>

2017 International Congress on Advances in Nuclear Power Plants (ICAPP '17)

Fukui & Kyoto, Japan, April 24 – 28, 2017

<http://icapp2017.org/>

ASME Verification and Validation Symposium (V&V)

Las Vegas, NV, USA, May 3 - 5, 2017

<https://www.asme.org/events/vandv>

The 3rd International Symposium on Multiscale Multiphase Process Engineering (MMPE2017)

Toyama, Japan, May 8 - 11, 2017

Chair: K. Terasaka (Keio University)

<http://www.mmpe.jp/>

The 29th Annual Conference on Liquid Atomization and Spray Systems (ILASS-AMERICAS 2017)

Atlanta, GA, USA, May 15 - 18, 2017

<http://www.lass.org/2017/savethedate.htm>

The 14th Asian Symposium on Visualization

Beijing, China, May 22 - 26, 2017

<http://itlx.buaa.edu.cn/asv14.htm>

The 7th International Symposium on Advances in Computational Heat Transfer (CHT-17)

Napoli, Italy, May 28 - June 2, 2017

Chair: N. Bianco (Università degli studi Federico II)

<http://www.ichmt.org/site/4/cht-17>

The 9th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics (ExHFT-9)

Foz do Iguaçu, Brazil, June 11 - 15, 2017

Chair: J. Barbosa Jr. (Universidade Federal de Santa Catarina)

Chair: G. Ribatski (Universidade de São Paulo)

<http://exhft9.org/>

2017 ANS Annual Meeting

San Francisco, CA, USA, June 11 - 15, 2017

Chair: J. N. Reyes, Jr. (NuScale Power)

http://www.ans.org/meetings/m_148

The 12th International Symposium on Particle Image Velocimetry (ISPIV 2017)

Busan, South Korea, June 19 - 21, 2017

Chair: K. C. Kim (Pusan National University)

<http://www.ispiv2017.org/>

Japan-U.S. Seminar on Two-Phase Flow Dynamics 2017

Sapporo, Hokkaido, Japan, June 22 - 24, 2017

Chair: M. Mori (Hokkaido University)

Co-Chair: G. Tryggvason (University of Notre Dame)

<http://nuclearsafety.eng.hokudai.ac.jp/jus2017/>

The 3rd International Conference on Numerical Methods in Multiphase Flows (ICNMMF-III)

Tokyo, Japan, June 26 - 29, 2017

Chair: Y. Matsumoto (RIKEN)

Co-Chair: S. Takagi (University of Tokyo)

Co-Chair: A. Tomiyama (Kobe University)

<http://www.jsmf.gr.jp/icnmmf2017/>

The 8th International Granulation Workshop (2017)

Sheffield, UK, June 28-30, 2017

<https://www.sheffield.ac.uk/agglom/2017>

The 25th International Conference on Nuclear Engineering (ICONE-25)

Shanghai, China, July 2 - 6, 2017

Chair: B. Wang (State Power Investment Corporation)

<https://www.asme.org/events/icone>**The 10th International Symposium on Turbulence and Shear Flow Phenomena (TSFP10)**

Chicago, IL, USA, July 7 - 9, 2017

Chair: L. Smits (Princeton University)

<http://tsfp10.org/>**The 31st International Symposium on Shock Waves (ISSW31)**

Nagoya, Japan, July 9 - 14, 2017

Chair: T. Kajishima (Osaka University)

<http://akagi.nuae.nagoya-u.ac.jp/issw31/>**ASME Pressure Vessels & Piping Conference (PVP)**

Hawaii, USA, July 16 - 20, 2017

Chair: M.Y.A. Younan (The American University in Cairo)

<https://www.asme.org/events/pvp>**The 13th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2017)**

Portoroz, Slovenia, July 17 - 19, 2017

Chair: J.P. Mayer (University of Pretoria)

<http://edas.info/web/hefat2017/>**International Pipeline Geotechnical Conference (IPG 2017)**

Lima, Peru, July 25 - 26, 2017

<https://www.asme.org/events/ipg>**The 9th International Conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2017)**

Okayama, Japan, July 25 - 28, 2017

Chair: E. Tomita (Okayama University)

<http://www.jsme.or.jp/conference/comodia2017/>**7th Asian Particle Technology Symposium (APT 2017)**

Taoyuan, Taiwan, July 30- August 3, 2017

Chair: H.-P. Kuo (Chang Gung University)

<http://www.ap2017.org/>**ASME 2017 Fluids Engineering Division Summer Meeting (FEDSM2017)**

Waikola, Hawaii, July 30- August 3, 2017

<https://www.asme.org/events/fedsm>**International Sorption Conference 2017 (ISHPC2017)**

Tokyo, Japan, August 7 - 10, 2017

Chair: K. Saito (Waseda University)

<http://biz.knt.co.jp/tour/2017/ISHPC2017/congress.html>**The 17th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH 17)**

Xi'an, China, September 3 - 8, 2017

Chair: G. X. Li (Chinese Nuclear Society)

<http://www.nureth17.com/>**The 6th International Conference on Jets, Wakes and Separated Flows (ICJWSF 2017)**

Cincinnati, USA, October 9 - 12, 2017

Chair: E. J. Gutmark (University of Cincinnati)

<https://www.uc.edu/eventservices/ICJWSF-2017.html>**2nd Workshop on Advances in CFD and MD modelling of Interface Dynamics in Capillary Two-Phase Flows**

Lausanne, Switzerland, October 9-13, 2017

<http://lcm.epfl.ch/cms/page-127462.html>**The 9th JSME-KSME Thermal and Fluids Engineering Conference (TFEC9)**

Okinawa, Japan, October 28 - 30, 2017

Chair: M. Takei (Chiba University)

<http://www.tfec9.org/>**2017 ANS Winter Meeting and Nuclear Technology Expo**

Washington, DC, USA, October 29 - November 2, 2017

Chair: T. Troutman (Bechtel Nuclear, Security & Environmental)

http://www.ans.org/meetings/m_149**15th Multiphase Flow Conference & Short Course**

Dresden, Germany, November 14 - 17, 2017

<http://www.hzdr.de/multiphase>**The 11th Pacific Symposium on Flow Visualization and Image Processing (PSFVIP-11)**

Kumamoto, Japan, December 1 - 3, 2017

Chair: S. Torii (Kumamoto University)

<http://www.psfvip11.jp/>**The 10th International Symposium on Measurement Techniques for multiphase Flows (ISMTMF'17)**

Hong Kong, December 3 - 7, 2017

<http://ismtmf2017.ust.hk>

**24th National and 2nd International ISHMT
-ASTFE Heat and Mass Transfer Conference
(IHMTC-2017)**

Telangana, India, December 27-30, 2017

<http://www.ishmt2017.com/>

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**The 10th International Conference on Boiling and
Condensation Heat Transfer (ICBCHT10)**

Nagasaki, Japan, March 12 - 15, 2018

Chair: Y. Takata (Kushu University)

<http://www2.mech.nagasaki-u.ac.jp/ICBCHT10/>

**The 10th International Symposium on Cavitation
(CAV2018)**

Baltimore, Maryland, USA May 14 – 16, 2018

Chair: J. Katz (Johns Hopkins University)

<https://cav2018.jhu.edu/>

**The 14th International Conference on Liquid
Atomization and Spray Systems (ICLASS 2018)**

Chicago, IL, USA, July 22 - 26, 2018

<http://www.iclass2018.org/>

**31st International Symposium on Rarefied Gas
Dynamics (RGD31)**

Glasgow, UK, July 23-27, 2018

**The 16th International Heat Transfer Conference
(IHTC-16)**

Beijing, China, August 10 - 16, 2018

<http://www.ihtc16.org/>

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The 10th International
Symposium on Measurement
Techniques for Multiphase Flow
- 2017

ISM'TMF'17

December 3-7, 2017
Hong Kong SAR, China

ANNOUNCEMENT AND CALL FOR PAPERS

ORGANIZED BY:

Department of Mechanical and Aerospace
Engineering and
HKUST Energy Institute
Hong Kong University of Science & Technology

The Chinese Society for Measurement techniques
on Multiphase Flow

The Japanese Society for Multiphase Flow



Conference Website:
<http://ismtmf2017.ust.hk>

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CONFERENCE VENUE

Hong Kong University of Science & Technology
Clear Water Bay, Kowloon, Hong Kong



BACKGROUND

After enthusiastic responses to the past nine ISMTMFs held in Nanjing (1995), Beijing (1998), Fukui (2001), Hangzhou (2004), Macau (2006), Okinawa (2008), Tianjin (2011), Guangzhou (2013) and Sapporo (2015), the 10th International Symposium on Measurement Techniques for Multiphase Flows (ISM'TMF) will be held in Hong Kong from December 3 to 7, 2017. The focus of this symposium will be on the latest progress in the development of measurement techniques for multiphase flows and exchanging new information among scientists and engineers working in universities, industries and other fields.

This symposium aims to provide an international forum for presentation, exchange of ideas and creation of knowledge in recent advances on various aspects of theories, analyses, and applications of measurement techniques in complex multiphase/multi-component flows. The focus of this symposium is to report the latest progress in developing measurement techniques for multiphase flows and exchanging new information among scientists and engineers working in universities, industries and other fields. It will bring together researchers and practitioners from academia, research institutions and industry to exchange experiences, disseminate up-to-date information, and explore new opportunities in the field; in particular, it will expose young or new researchers to the state of the art in the field by means of the symposiums. It is anticipated that the 10th International Symposium on Measurement Techniques for Multiphase Flows-2017 (ISM'TMF 2017) will provide an opportunity for stimulation of the researchers as well as for furthering cooperation among the investigators in the field of advanced Multiphase Flow Measurement Techniques.

CALL FOR PAPERS

ISM'TMF'17 will focus on the following topics (include but not limited to):

- Fundamentals of multiphase flow measurement techniques and experimental methods
- Novel sensors and measurement methods of multiphase systems
- Information technology for multiphase flow
- Process tomography and flow visualization
- Intelligent instruments and monitoring systems

Hong Kong

Hong Kong is simply dazzling. Experience the distinctive blend of East and West in this dynamic city. Feel the rush as you indulge in shopping. Savour culinary delicacies. Open your senses to Hong Kong's amazing skyline, bustling harbour and peaceful countryside.



Take a tour and enjoy diversity and excitement at every turn in Hong Kong. Whether by cruise, by day or by night, every tour will captivate you and dispel the belief that Hong Kong is all skyscrapers and shopping malls. Or put on your walking shoes and explore the streets of Hong Kong with our handy Hong Kong Walks section. Interested in the heritage and culture of Hong Kong? We have great informative tours for you. If you want to get off the beaten track, try a tour to the Outlying Islands or a hiking tour, including one to the trail that Time Magazine calls the best urban hike in Asia. Come discover the diversity and sophistication that is Hong Kong. You'll love it!



- Optical, non-intrusive and other advanced measurement techniques
- Micro/nanoscale multiphase flow measurement techniques
- Bio multiphase flow measurement techniques

Selected papers from ISMTMF'17 will be further reviewed and published in special issues of *Measurement Science and Technology*, *International Journal of Multiphase Flow* and *Case Studies in Thermal Engineering*.

ABSTRACT SUBMISSION

Papers will be selected based on one page abstracts (A4, single space, Times New Roman letters of 10 font size) including results and figures. Papers submitted should include the title of the paper, authors' names and affiliations, a concise statement of the problem, method of approach, results and discussion, and conclusions. Please identify the corresponding author. Electronic submissions are strongly encouraged. Template is available from the symposium website (<http://ismtmf2017.ust.hk>) which will be available in March 2017. Please submit your abstract in a Word or PDF format to the ISMTMF'17 Secretariat via ISMTMF'17 website (online submission) or e-mail. The file size is limited to 5MB.

REGISTRATION FEES

Early Registration	(by 31 July 2017)	US\$550
Standard Registration	(after 31 July 2017)	US\$600
Student Registration	(by 31 July 2017)	US\$300
Spouse Registration	(after 31 July 2017)	US\$350
		US\$100

IMPORTANT DATES

Abstract:		
Start of submission one-page abstract:	March 1, 2017	
Deadline of abstracts:	May 31, 2017	
Notification of acceptance:	June 15, 2017	
Full paper submission:	July 31, 2017	
Final notice of acceptance:	August 31, 2017	
Final paper submission:	September 30, 2017	



Accommodation Information

Conference Hotels:

- Crowne Plaza Hong Kong Kowloon East
- Holiday Inn Express Hong Kong Kowloon East

The symposium will also reserve some rooms in the Conference Lodge at HKUST campus where is near the Institute of Advanced Studies (IAS) at HKUST.

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