

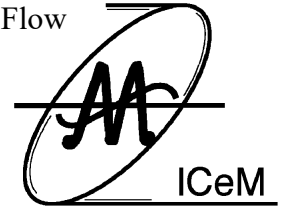


The International Information Center for Multiphase Flow

NEWSLETTER

No. 48, September 2017

The Japanese Society for Multiphase Flow



Japan-U.S. Seminar on Two-phase Flow Dynamics 2017 June 22-24, 2017, Sapporo, Hokkaido, Japan

by Shuichiro Miwa

Japan-U.S. Seminar on Two-phase Flow Dynamics 2017 was held during June 22-24, 2017 at Hokkaido University, Sapporo, Japan. The seminar was chaired by Prof. Michitsugu Mori (Hokkaido University), Prof. Gretar Tryggvason (University of Notre Dame), and vice-chair Prof. Yuichi Murai (Hokkaido University). The seminar was co-sponsored by JSMF, JSME-Hokkaido Division, AESJ-Hokkaido Division, and National Science Foundation.



Photo 2: Laboratory Tour



Photo 1: Seminar Session at Hokkaido University

This year's Japan-U.S. Seminar covered wide range of research topics including (1) Evaporating flow, (2) Micro two-phase flow, (3) Bubble swarms, (4) Numerical challenges, (5) Interfacial dynamics, (6) Bubbly shear flows, (7) Advanced measurement, (8) Speedy interfacial flows, and (9) Highly resolved visualization. Total of 35 presentations were given by

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Everybody, who is interested in Multiphase flow, is welcome to join ICeM. Please contact one of the following board members to register in ICeM member.

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researchers from Japan and the US. Keynote presentations were given by Prof. Steven Ceccio (University of Michigan) on bubbly shock propagation, Prof. Shu Takagi (University of Tokyo) on bubble clusters to vortical structures in turbulent bubbly flows, Prof. Akio Tomiyama (Kobe University) on modeling and numerical simulation of bubbly flow in bubble column, and Prof. Xiaodong Sun (University of Michigan) on liquid velocity field measurement around Taylor bubbles.



Photo 3: Seminar Banquet with Traditional Japanese Folk Song Group

The seminar also included laboratory tour as a part of the program and participants had opportunities to see the currently ongoing two-phase flow related experimental programs at Hokkaido University at Fluid Dynamics and Flow Control Laboratory, Nuclear System Safety Engineering Laboratory, and Wind Tunnel Laboratory. On second day of the seminar, special session was organized on the reports on currently ongoing two-phase flow research activities in Japan, US, and EU given by Prof. Yuichi Murai, Prof. Gretar Tryggvason, and Prof. Yasushi Takeda

(ETH-Zurich). In the evening of the second day, seminar banquet was held at the 20th floor of Century Royal Hotel near Sapporo station. Special remarks were given by Mr. Justin Tull of U.S. Consulate General, and Vice President of Hokkaido University Prof. Nishii. Participants also enjoyed the performance given by Japanese Folk Song Group of Hokkaido University, “Minken-Wadachi.” Finally, candidate site of the next Japan-U.S. Seminar was announced by Prof. Ceccio of University of Michigan-Ann Arbor.



Photo 4: Group Photo at Hokkaido University

The Japan-U.S. seminar 2017 brought fruitful discussions among researchers from various disciplines, and reaffirmed its value with a rich history dating back to 1970s. On behalf of local organizing committee, I would like to end this column with special thanks to all the participants and staff members who made this seminar possible.

Shuichiro Miwa, Assistant Professor
Secretary General of Japan-U.S. Seminar 2017
Hokkaido University
smiwa@eng.hokudai.ac.jp

The 3rd International Conference on Numerical Methods in Multiphase Flows June 26-29, 2017, Tokyo, Japan

by Shu Takagi

The 3rd International Conference on Numerical Methods in Multiphase Flows (ICNMMF-III) was held at The University of Tokyo, Institute of Industrial Science, (Komaba-II campus), Tokyo, Japan, from June 26 to 29, 2017. The co-chairpersons of this conference are Prof. Akio Tomiyama (Kobe University) and myself (Shu Takagi (The University of Tokyo)).

The 1st ICNMMF was held in Penn State University (USA) in 2012, and the 2nd was in Technical University of Darmstadt (Germany). The idea behind this conference series is to have an international high-level meeting, focused on numerical aspects with respect to the latest developments and needs in CFD for multiphase flows. Our intent is to bring together the international community in a focused technical

exchange environment.

This time, we had more than 160 attendants and more than 130 presentations including 18 invited speakers (6 Plenary Speakers and 12 Keynote speakers).

Plenary talks were given by

- Prof. Tim Colonius (California Institute of Technology, USA),
- Prof. Jacobus Derksen University of Aberdeen, UK),
Dr. Djamel Lakehal (ASCOMP, Switzerland),
- Prof. Dominique Legendre (Institut de Mécanique des Fluides de Toulouse, France),
- Prof. Andrea Prosperetti (University of Houston, USA),
- Prof. Hiroyuki Takahira (Osaka Prefecture University, Japan) (in alphabetical sequence)

We had many participants from foreign countries, 124 participants from 25 countries. As was expected, the quality of the talks was very good and I got many e-mails after the conference saying that the quality of the talks, especially by the invited speakers were excellent.

Compared with the previous ICNMMFs, I had an impression this time that more emphasis was on the interpretation of the numerical results. The ICNMMF had originally the purpose of sharing the detail knowledge for the development of accurate and

robust numerical schemes. In some sense, this has been achieved in the last 2 conferences and the purpose objectives are gradually moving to the next stage, that is how we utilize the developed scheme to understand the multiphase flow physics. So, I am very much looking forward to seeing what kinds of new analysis will be given in the next ICNMMF.

Finally, I would like to thank to all the Local Organizing Committee members, Scientific Program Committee members and supporting staffs for the conference. Special thanks are to Prof. Akio Tomiyama for co-chairing the conference, Prof. Takeo Kajishima as a chair of scientific committee members for finalizing the program and Kosuke Hayashi for website and general stuffs.

The next conference, ICNMMF-IV, will be held in Houston chaired by Prof. Andrea Prosperetti (University of Houston). I look forward to seeing you there.

Shu Takagi, Professor,
Co-Chair of ICNMMF-III
The University of Tokyo,
takagi@mech.t.u-tokyo.ac.jp



Obituary

It is with deep sadness that we inform you that **Professor Barry Azzopardi** (University of Nottingham) passed away on May 22, 2017.

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

Future Meetings

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

The 28th International Symposium on Transport Phenomena (ISTP 28)

Peradeniya, Sri Lanka, September 22 - 24, 2017

Chair: L. Rajapaksha (University of Peradeniya)

<http://www.pdn.ac.lk/istp28/>

http://www.ans.org/meetings/m_149

The 14th International Conference on Flow Dynamics (ICFD2017)

Sendai, Japan, November 1 - 3, 2017

Chair: S. Maruyama (Tohoku University)

<http://www.ifs.tohoku.ac.jp/icfd2017/>

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>

The 12th International Symposium on Advanced Science and Technology in Experimental Mechanics (12th ISEM'17)

Kanazawa, Japan, November 1 - 4, 2017

Chair: M. Nakada (Kanazawa Institute of Technology)

<http://www.jsem.jp/ISEM12/>

2nd Workshop on Advances in CFD and MD modelling of Interface Dynamics in Capillary Two-Phase Flows

Lausanne, Switzerland, October 9-13, 2017

<http://ltem.epfl.ch/cms/page-127462.html>

TINTERCOH2017

Montevideo, Uruguay, November 13 -17, 2017

Chair: L. Sanford (University of Maryland Center for Environmental Science)

<https://www.fing.edu.uy/imfia/intercoh/>

The 19th Annual Conference on Liquid Atomization & Spray Systems - Asia (ILASS-Asia 2017)

Jeju Island, Korea, November 6 - 9, 2017

Chair: C. Bae (KAIST)

<https://www.lass-asia2017.org/>

15th Multiphase Flow Conference & Short Course

Dresden, Germany, November 14 – 17, 2017

<http://www.hzdr.de/multiphase>

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/>

The 17th International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications (Power MEMS 2017)

Kanazawa, Japan, November 14 - 17, 2017

Chair: Y. Suzuki (University of Tokyo)

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

2017 ANS Winter Meeting and Nuclear Technology Expo

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

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

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
Chair: Huihe Qiu (Hong Kong University of Sci. & Tech.)
<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/>

----- 2018 -----

The 35th Short Courses on Modelling and Computation of Multiphase Flows

Zurich, Switzerland, February 12 - 16, 2018
E-mail: shortcourse@lke.mavt.ethz.ch
<http://www.lke.mavt.ethz.ch/news-and-events/events/short-course-mpf.html>

μFluidics and Non-Euqilibrium Gas Flows

Strasbourg, France, February 28 – March 2, 2018
<http://mflu-negf-2018.com/>

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/>

European-Japanese Two-phase Flow Group Meeting

New York, USA, April 22 - 26, 2018
Chair: Masahiro Kawaji (City College of New York)

The 3rd International Symposium on Application of High-voltage, Plasma & Micro/Nano Bubble to Agriculture and Aquaculture

(ISHPMNB 2018)
Morioka, Iwate, Japan, May 9 - 12, 2018
Chair: Koichi Takaki (Iwate University)
Chair: Kiyoshi Yoshikawa (Kyoto University)
<http://ishpmnb2018.sgtk.iwate-u.ac.jp>

The 10th International Symposium on Cavitation (CAV2018)

Baltimore, Maryland, USA, May 14 – 16, 2018
Chair: J. Katz (Johns Hopkins University)
<https://cav2018.jhu.edu/>

ASME Pressure Vessels & Piping Conference (PVP)

Praha, Czech Republic, July 15 - 20, 2018
Chair: P. Mertiny (University of Alberta)
<https://www.asme.org/events/pvp>

The 19th International Symposium on Applications of Laser and Imaging Techniques to Fluid Mechanics

Lisbon, Portugal, July 16 – 19, 2018
<http://www.lisbon-lasersymposium.org/LXLASER2018/>

2018 ANS Annual Meeting

Philadelphia, USA, June 17 - 21, 2018
General Chair: K. P. Singh (Holtec International)
http://www.ans.org/meetings/m_244

The 26th International Conference on Nuclear Engineering (ICONE-26)

London, England, July 22 - 28, 2018
<https://www.asme.org/events/icone>

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
Chair: P. Cheng (Shanghai Jiao Tong University)
<http://www.ihtc16.org/>

The 12th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics, Operation and Safety (NUTHOS-12)
Qingdao, China, October 14 - 18, 2018
Chair: G. Li (CNS)
Chair: J.H. Kim (KAIST)
Chair: H. Ninokata (POLIMI)
<http://www.nuthos-12.org/>

----- 2019 -----
The 11th International Symposium on Turbulence and Shear Flow Phenomena (TSFP11)

Southampton, UK, July 30 – August 2, 2019
Chair: M. Oberlack (Technische Universitat Darmstadt)
<http://tsfp11.org/>

The 10th International Conference on Multiphase Flow (ICMF10)

Rio de Janeiro, Brazil, May, 2019
Chair: O. Rodriguez (Universidade de São Paulo)
Chair: N. Mangiavacchi (Universidade do Estado do Rio de Janeiro)
<http://eventos.abcm.org.br/icmf2019/>

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

ISMTMF'17

**December 3-7, 2017
Hong Kong SAR, China**

3RD 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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Clear Water Bay, Kowloon, Hong Kong

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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 (ISMTMF) 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/multicomponent 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 (ISMTMF 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

ISMTMF'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

Koji Okamoto	University of Tokyo
Tomio Okawa	Tokyo Elect Comm Univ
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Toshihiko Shakouchi	Mie University
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Masahito Takei	Chiba University
Hisashi Umekawa,	Kansai University
An-Bang Wang	National Taiwan University
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- 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 September 20, 2017)	US\$550
Standard Registration (after September 20, 2017)	US\$600
Student Registration (by September 20, 2017)	US\$300
Student Registration (after September 20, 2017)	US\$350
Spouse Registration	US\$100

IMPORTANT DATES (NEW)

Abstract:
Deadline of abstracts: July 15, 2017
Notification of acceptance: July 20, 2017
Full paper submission (Optional): August 20, 2017
Full paper acceptance: August 31, 2017
Final paper submission: September 15, 2017

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!

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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