

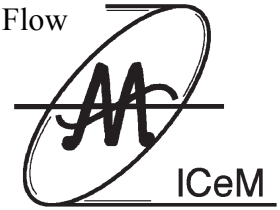


The International Information Center for Multiphase Flow

NEWSLETTER

No. 45, March 2016

The Japanese Society for Multiphase Flow



9th International Symposium on Measurement Techniques for Multiphase Flows (ISMTMF) September 23-25, 2015, Sapporo, Hokkaido, Japan

by Yuichi Murai

The 9th international symposium on Measurement Techniques for Multiphase Flows (ISMTMF) was held at Hokkaido University, Sapporo, Hokkaido, Japan. The symposium was organized by The Japanese Society for Multiphase Flow (JSMF), and co-organized by The Japan Society of Mechanical Engineers (JSME), The Chinese Society of Measurement Techniques on Multiphase Flow, National Natural Science Foundation of P.R. China, and The Visualization Society of Japan, sponsored by Faculty of Engineering, Hokkaido University. The symposium chair was Prof. Yuichi Murai (reporter), with help of two co-chairs, Prof. Xiaoshu Cai (Shanghai Univ. Sci. Tech.) and Prof. Shigeo Hosokawa (Kobe University).

The ISMTMF is the symposium in the field of measurement technique challengingly designed and extended to complex multiphase flow systems. It covers wide subjects from basic science to industry aiming at new findings of multiphase fluid dynamics

as well as responding to requirements in multiphase industries. The ISMTMF series have 20 years of history since South-East University in Nanjing, China, held the first meeting in 1995. In the past three symposia from 6th to 8th rounds, number of participants exceeded 100 due to recent worldwide demands particularly for environmental issues. In the present 9th symposium, therefore, the chair and co-chairs called for papers putting priority onto two topical fields, water treatment and particulate matter measurement.

There were 121 technical presentations made during the three-day symposium, including three plenary lectures given by Dr. Sven Eckert, Dr. Yingxiang Wu, and Dr. Yasushi Saito. Also, six keynote speakers were selected from participants, who were Dr. Chuanglong Xu, Dr. K. Tsuchiya, Dr. M. Takei, Dr. Zhiqiang Sun, Dr. Jun Yao, and Dr. T. Sanada. All individual achievements were edited into the book of extended abstracts of non-USB type in

To Join ICeM:

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.

Chairperson (Editor):

Prof. Kenji Katoh
Faculty of Engineering
Osaka City University
Sugimoto, Sumiyoshi-ku, Osaka 558-8585
Tel: +81-6-6605-2665
Fax: +81-6-6605-2663
E-mail:
katoh@mech.eng.osaka-cu.ac.jp

Members:

Prof. Shu Takagi
The University of Tokyo
E-mail:
takagi@mech.t.u-tokyo.ac.jp

Prof. Daisuke Ito
Kyoto University Research Reactor Institute
E-mail:
itod@rri.kyoto-u.ac.jp

Prof. Tatsuro Wakimoto
Osaka City University
E-mail:
wakimoto@mech.eng.osaka-cu.ac.jp

Prof. Yasutaka Yamaguchi
Osaka University
E-mail:
yamaguchi@mech.eng.osaka-u.ac.jp



Photo 1 Group photo on 24th Sept. 2015



Photo 2 Inter-society meeting discussing future vision

order to promote handy information exchange among the participants. Total number of the participants was 167 come from nine countries; China, Japan, UK, Germany, Spain, Korea, France, Russia, and Poland.

The number, 167, has been the largest ever in this series.

Fortunately, weather was perfect in Sapporo only during the symposium dates so that people enjoyed lunches in patio and walking around in Sapporo. A mini-excursion was to take 130 participants on three buses to Sapporo Winter Olympic museum where they were chair-lifted up to the starting point of large-hill ski jumpers. In banquet held at Sapporo TV Tower restaurant, funny prizewinners were announced to the guests from the local organizing committee to three very special persons; the earliest submitter of the abstract, the first payer of the registration fee, and the person traveled from the longest distance. Separately, official certificates of best presentation were awarded to three students in the closing ceremony. The 10th ISMTMF is to be held in Hong Kong, China, in 2018.

Yuichi Murai
Symposium Chair of the 9th ISMTMF
Hokkaido University
E-mail: murai@eng.hokudai.ac.jp

7th European-Japanese Two-Phase Flow Group Meeting October 11-15, 2015, Zermatt, Switzerland

by John R. Thome

The 7th European-Japanese Two-Phase Flow Group Meeting was held at the Hotel Beau Site, Zermatt, Switzerland from October 11-15, 2015. It was chaired by Prof. John R. Thome with Dr. Ricardo Lima as the conference secretary (Ecole Polytechnique Fédérale de Lausanne, EPFL). The Japanese co-chairs were Prof. Tomoji Takamasa (Tokyo University of Marine Science and Technology) and Prof. Akio Tomiyama (Kobe University) and the European co-chairs were Prof. Iztok Zun (University of Ljubljana), Prof. Paolo di Marco (University of Pisa) and Dr. Gian Piero Celata (ENEA). Sponsorships were received from the Faculty of Engineering (STI) and the Institute of Mechanical Engineering (IGM) of the EPFL.

There was a large turnout with participants numbering 90 (including spouses) with large delegations from both Europe and Japan. There were 3 Keynote Speakers and 65 presentations. The keynote lectures were given by the following invited speakers: Prof. Iztok Zun (University of Ljubljana), Prof. Masahiro Kawaji (City University of New York) and Prof. Neima Brauner (Tel-Aviv University). The 65 papers were divided up into sessions of Experimental, Modeling, Numerical, Visualization and Devices. As the theme of this meeting is recent and ongoing work on two-phase flow and two-phase heat transfer, full papers and extended abstracts were both accepted, and all were provided to the participants as a proceedings on a memory stick.



Photo 1 View of Matterhorn at sunrise on Monday morning from hotel veranda.



Photo 2 Photo of 7th EJTPFGM 2015 participants.

The conference was held at one of the foremost mountain resort towns in the Swiss Alps, namely Zermatt, which is only accessible by train as Zermatt allows no private car traffic, and that lies in the valley below the Matterhorn in the Canton Valais near the Italian border. All participants stayed at the

conference hotel, the Beau Site Park Hotel, enjoying all meals together in the hotel over the course of the conference.

The meeting began on Sunday afternoon with the first Keynote lecture by Prof. Kawaji, followed by the first session of papers and a standup evening dinner. Monday began with the Keynote lecture by Prof. Brauner and was followed by sessions the rest of the day with an evening dinner. The Tuesday schedule was inversed with first the sessions and then the Keynote lecture of Prof. Zun to end the day. The Conference Chair (John Thome) and Co-Chairs (Tomoji Takamasa, Akio Tomiyama and Paolo di Marco) presented a plaque to Prof. Zun to commemorate his hosting of the first European-Japanese Two-Phase Flow Group Meeting in Portoroz in Slovenia in 1998 and this was followed by an aperitif to celebrate his 69th birthday. Wednesday had morning and late afternoon sessions, highlighted by a midday excursion by cogwheel train up to the Gornergat at 3200 meters for lunch and a mountain top walk in the beautiful sunshine above the clouds and a firsthand look at the Matterhorn and surrounding mountains and valleys. Thursday morning, the participants were greeted to a light blanket of snow that fell during the night.

The 8th Japanese-European Two-Phase Flow Group Meeting will be held in 2018 in New York city and hosted by Prof. Masahiro Kawaji (CUNY).

John R. Thome, Professor
Laboratory of Heat and Mass Transfer (LTCM)
Ecole Polytechnique Fédérale de Lausanne (EPFL)
E-mail: john.thome@epfl.ch

Future Meetings

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

The First Pacific Rim Thermal Engineering Conference

Waikoloa, USA, March 13 - 17, 2016
Chair: Yasuyuki Takata (Kyushu Univ.)
Co-Chair: Sung Jin Kim (KAIST)
Co-Chair: Yong X. Tao (University of North Texas)
<http://www.jsme.or.jp/td/PRTEC2016/index.html>

2016 International Conference on Sustainable Energy, Environment and Information Engineering (SEEIE 2016)

Bangkok, Thailand, March 20 - 21, 2016
Chair: B. Saha (University of Burdwan)
<http://www.seeie2016.org/>

The World Congress on Momentum, Heat and Mass Transfer (MHMT '16)

Prague, Czech Republic, April 4 - 5, 2016
Chair: Pedro Coelho (University of Lisbon)
Co-Chair: Stefan Becker (Friedrich Alexander University Erlangen-Nuremberg)
<http://mhmtcongress.com/>

9th International Conference on Multiphase Flow (ICMF 2016)

Firenze, Italy, May 22 - 27, 2016
Chair: Jacques Magnaudet (Institut de Mecanique des Fluides de Toulouse)
Chair: Alfredo Soldati (University of Udine)
<http://www.aidic.it/icmf2016/index.html>

9th International Conference on Computational Heat and Mass Transfer (ICCHMT 2016)

Cracow, Poland, May 23 - 26, 2016
Chair: J.Taler (Cracow University of Technology)
<http://icchmt.pk.edu.pl/>

The 2016 International Conference on Energy, Environment, Ecosystems, and Development (EEED 2016)

Riga, Latvia, May 28 - 30, 2016
Chair: Klimis Ntalianis (Tech. Educ. Inst. of Athens)
<http://www.inase.org/conferences/2016/riga/eeed.htm>

The 4th Cavitation Workshop

Chania, Crete, May 30 - June 1, 2016
Chair: Manolis Gavaises (City University London)
<http://iicr2016.net/>

10th North American Conference Multiphase 2016

Banff, Canada, June 8 - 10, 2016
Chair: Tom Danielson (ConocoPhillips)
https://www.eventsforce.net/bhr/frontend/reg/thome.csp?pageID=30807&ef_sel_menu=889&eventID=100&eventID=100

International Conference on Nuclear Engineering (ICONE 24)

Charlotte, North Carolina, USA, June 26 - 30, 2016
Chair: Yassin Hassan (Texas A&M University)
Co-Chair: Robert Stakensborghs (ILD)
<https://www.asme.org/events/icone>

30th International Symposium on Rarefied Gas Dynamics (RGD 30)

Victoria BC, Canada, July 10 - 15, 2016
Chair: Andrew Ketsdever (University of Colorado)
<http://rgd30.engr.uvic.ca/>

12th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2016)

Costa del Sol, Malaga, Spain, July 11 - 13, 2016
Chair: Josua P. Meyer (University of Pretoria, South Africa)
<http://edas.info/web/hefat2016/index.html>

9th International Conference on Computational Fluid Dynamics (ICCFD 9)

Istanbul, Turkey, July 11 - 15, 2016
Chair: Alim Rüstem Aslan (Istanbul Technical University)
Chair: Ayşe Gül Güngör (Istanbul Technical University)
Chair: İlyas Bedii Özdemir (Istanbul Technical University)
<http://icffd9.itu.edu.tr/>

4th IAHR Europe Congress

Liege, Belgium, July 27 - 29, 2016
Chair: Benjamin Dewals (University of Liege)
<http://www.iahr2016.ulg.ac.be/>

11th International Conference on Advances in Fluid Mechanics (AFM 2016)

Ancona, Italy, September 5 - 7, 2016
Chair: C. A. Brebbia (Wessex Institute)
Chair: M. Rahman (Dalhousie University)
<http://www.wessex.ac.uk/conferences/2016/afm-2016>

14th International Conference on Simulation and Experiments in Heat Transfer and its Applications

Ancona, Italy, September 7 - 9, 2016
Chair: B. Sunden (Lund University)
Chair: C. A. Brebbia (Wessex Institute)
<http://www.wessex.ac.uk/conferences/2016/heat-transfer-2016>

7th International Conference on Vortex Flows and Vortex Models (ICVFVM 2016)

Rostock, Germany, September 20 - 22, 2016
Chair: Nikolai Kornev (University of Rostock, Germany)
<http://www.icvfvm2016.uni-rostock.de/icvfvm-2016/>

27th International Symposium on Transport Phenomena (ISTP 27)

Honolulu, USA, September 20 - 23, 2016
Chair: Toshio Tomimura (Kumamoto University)
Co-Chair: Kazuyoshi Fushinobu (Tokyo Institute of Technology)
Co-Chair: Tomoyuki Hatakeyama (Toyama Prefectural University)
<http://www.istp27.jp/index.html>

1st Workshop on Advances in CFD and MD modelling of Interface Dynamics in Capillary Two-Phase Flows

Lausanne, Switzerland, October 3 - 7, 2016

Chair: J. R. Thome (EPFL)

Chair: M. Magnini (EPFL)

Chair: A. Ferrari (EPFL)

Chair: B. A. Nichita (EPFL)

Chair: E. Gros (EPFL)

<http://ltdcm.epfl.ch/page-127462-en.html>

The Heat and Mass Transfer in Nuclear Safety Applications: Severe Accident, Environment Contamination, Waste Storage (HMTNS – 16)

Juan les Pins, France, October 25 - 28, 2016

Chair: F. Fichot (IRSN)

Chair: M. Quintard (IMFT)

<http://www.ichmt.org/site/2/hmtns-16>

The Fourth International Forum on Heat Transfer (IFHT2016)

Sendai, Japan, November 2 - 4, 2016

Chair: Taku Ohara (Tohoku University)

<http://ifht2016.org/index.html>

The 15th Asian Congress of Fluid Mechanics (ACMF 15)

Kuching, Sarawak, Malaysia, November 21 - 23, 2016

Chair: Kannan Munisamy (UNITEN)

<http://fet.mmu.edu.my/~acfm/index.htm>

Executive Division of The Japanese Society for Multiphase Flow (2015)

President T. Takamasa (Tokyo University of Marine Science and Technology)

Vice Presidents Y. Abe (University of Tsukuba)

C. Iwaki (Toshiba Corporation)

A. Tomiyama (Kobe University)

Chair of Informatics Division

K. Katoh (Osaka City University)

Chair of Planning Division

M. Watanabe (Hokkaido University)

Chair of International Intercourse Division

M. Kawaji (The City College of New York)

Chair of General Affairs Division

T. Hazuku (Tokyo University of Marine Science and Technology)

Executive Office of JSMF

Academic Publication & Printings Co.

2-14-9 Kasugadenaka, Konohana-ku, Osaka, 554-0022, JAPAN

Tel : +81-6-6466-1588 Fax : +81-6-6463-2522

E-mail : office@jsmf.gr.jp

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

Corresponding Members

AUSTRALIA

Hubert Chanson University of Queensland
 Jiyuan Tu RMIT University
 Aibing Yu University of New South Wales

AUSTRIA

Stefan Pirker Johannes Kepler University

BRAZIL

Gherhardt Ribatski Universidade de São Paulo
 Oscar M. H. Rodriguez Universidade de São Paulo

CANADA

Jos Derksen University of Alberta
 Jovica Riznic Canadian Nuclear Safety Commission

CHINA

Xu Cheng Shanghai Jiao Tong University
 Liejin Guo Xi'an Jiaotong University
 Jinghai Li Chinese Academy of Sciences
 Lixing Zhou Tsinghua University

CZECH REPUBLIC

Jiří Drahoš Academy of Science of the Czech Republic

FRANCE

Alain Cartellier LEGI,
 CNRS and University Grenoble Alpes
 Catherine Colin IMFT, University of Toulouse, CNRS
 Michel Lance École Centrale de Lyon
 Jacques Magnaudet IMFT, University of Toulouse, CNRS
 Olivier Simonin IMFT, University of Toulouse, CNRS
 Anne Tanière LEMTA, Nancy University
 Stéphane Zaleski University Pierre et Marie Curie

GERMANY

Dirk Lucas HZDR
 Michael Schlüter TU Hamburg-Harburg
 Martin Sommerfeld Martin-Luther-Universität
 Halle-Wittenberg
 Peter Stephan Darmstadt University of Technology
 Markus Uhlmann Karlsruhe Institute of Technology

GREECE

Vasilis Bontozoglou University of Thessaly

INDIA

Gargi Das Indian Institute of Technology
 Kharagpur

ISRAEL

Neima Brauner Tel Aviv University
 Yehuda Taitel Tel Aviv University

ITALY

Gian Piero Celata ENEA
 Paolo di Marco University of Pisa
 Alfredo Soldati Università di Udine

KOREA

Moo Hwan Kim KINS
 Sang Yong Lee KAIST
 Chul-Hwa Song KAERI

NETHERLAND

J.A.M. (Hans) Kuipers Eindhoven University of
 Technology
 Robert Mudde Delft University of Technology

NORWAY

Ole Nydal NTNU

RUSSIA

Sergey V. Alekseenko Novosibirsk State University

SLOVENIA

Iztok Žun University of Ljubljana

SPAIN

Carlos Martinez-Bazan University of Jaén

SWEDEN

Henryk Anglart Royal Institute of Technology

SWITZERLAND

Horst-Michael Prasser ETH Zürich
 John R. Thome EPFL

TAIWAN

Chih-Chen Chen National Tsing Hua University

TURKEY

Can Fuat Delale Isik University

UK

Panagiota Angeli University College London
 Barry Azzopardi University of Nottingham
 Tassos G. Karayiannis Brunel University
 Omar K. Matar Imperial College London
 Mike Reeks Newcastle University

USA

Steven L. Ceccio University of Michigan
 Jennifer Sinclair Curtiss University of Florida
 Vijay K. Dhir University of California, Los
 Angeles

John K. Eaton

Stanford University

Rodney O. Fox

Iowa State University

Dimitri Gidaspow

Illinois Institute of Technology

Yassin A. Hassan

Texas A & M University

Takashi Hibiki

Purdue University

Melany Hunt

California Institute of Technology

Satish Kandlikar

Rochester Institute of Technology

Masahiro Kawaji

City College of New York City

Jungho Kim

University of Maryland

Ellen K. Longmire

University of Minnesota

Efstathios E. (Stathis) Michaelides

Texas Christian University

Michael Podowski

Rensselaer Polytechnic Institute

Greтар Tryggvason

University of Notre Dame