

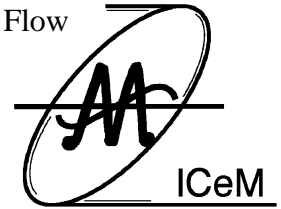


The International Information Center for Multiphase Flow

# NEWSLETTER

No. 42, September 2014

The Japanese Society for Multiphase Flow



## The 16th International Symposium on Flow Visualization June 24-27, 2014, Okinawa, Japan

by Satoshi Someya

The 16th International Symposium on Flow Visualization (ISFV16) was held at Okinawa convention center (Fig.1) in Ginowan-city, Okinawa, Japan from June 24 to 27, 2014. The conference was chaired by Prof. Okamoto (Tokyo Univ.) and was sponsored by the Visualization Society of Japan (VSJ),



Fig.1 Okinawa convention center

supported by University of the Ryukyus.

The ISFV conference was launched in 1977 in Tokyo by Japanese researchers who lead the heat and flow visualization internationally. It has been held worldwide once in two years as follow, to exchange state-of-the-arts visualization technologies and its applications, including the PIV/PTV, LIF and so on.

Bochum (Germany/1980)

Ann Arbor (USA /1983)

Paris(France/1986)

Prague (Czechoslovakia /1989)

Yokohama (Japan/1992)

Seattle (USA/1995)

Sorrento (Italy / 1998)

Edinburgh (UK / 2000)

Kyoto (Japan / 2002)

Notre Dame(USA / 2004)

Göttingen (Germany/2006)

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Table. 1 Frame of ISFV16

Plenary Lecture	3 Sessions
Keynote Lecture	6 Sessions
Memorial Lecture	2 Sessions
Regular Presentation	14 Tracks, 55 Sessions
Poster Session	2 Sessions
Workshop on Ocean Visualization	1 Session (3 hour long session)
Best Presentation Competition	44 Competitors
Exhibition	11 Booths
Tracks:	
1. PIV/PTV	
2. Micro and Nano-fluidics, Micro-gravity Flows	
3. Mechanical, Chemical and Bio-inspired engineering	
4. Heat and Mass Transfer	
5. Multiphase Flow, Droplets	
6. High-speed and Transient Phenomena	
7. Turbulent Flow	
8. Aerodynamics, Compressive/Supersonic Flow	
9. Reactive Flows, Combustion	
10. Numerical Visualization	
11. LIF, PSP and Scalar measurement	
12. Image Processing	
13. Industrial Applications	
14. Environmental Flows	

Nice (France/ 2008)  
 Daegu (Korea / 2010)  
 Minks (Belarus / 2012)

The organizers of ISFV16 selected fourteen tracks (55 sessions) and invited three plenary lecturers, six keynote lecturers as shown in Table.1. The ISFV16 and VSJ awarded Prof. K.C.Kim (Pusan National University, Korea) Asanuma Award and Prof. N.A.Fomin (Luikov Heat and Mass Transfer Institute, Belarus) DaVinci Award. They made memorial presentations in the conference. Besides, a special workshop on ocean visualization was held. Two poster



Fig. 2 A picture in the plenary lecture

sessions with 40 posters in an exhibition room with 11 booths. The total number of presentations was 247 and 44 presenters joined a best presentation competition.

357 researchers from 21 countries participated in the conference. The plenary lectures (Fig.2) were given by three honorable speakers; Prof. Akiyoshi Iida (Toyohashi University of Technology), Prof. Christian J. Kähler (Bundeswehr University Munich) and Prof. Hui Hu (Iowa State University). The keynote lectures were given by Prof. Mamoru Tanahashi (Tokyo Institute of Technology), Dr. C. Poelma (Delft University of Technology), Prof. Kenneth T. Christensen (University of Illinois at Urbana-Champaign), Prof. Jin Jun Wang (Beijing University of Aeronautics and Astronautics), Prof. Han Seo Ko (Sungkyunkwan University), Dr. Daniel W. Banks (National Aeronautics and Space Administration).

The conference began with an opening reception for all the attendees at Jichi-kaikan in Naha city. Participants enjoyed dinner cruise as the conference banquet. The next ISFV17 will be held in Tennessee, U.S.A in 2016.

Satoshi Someya  
 Secretary general of ISFV16  
 Chief Senior Researcher, National Institute of Advanced Industrial Science and Technology, Japan  
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**The 15th International Heat Transfer Conference (IHTC-15)  
August 10 to 15, 2014, Kyoto, Japan**



The 15th International Heat Transfer Conference Kyoto 2014

by Hideo Yoshida

The 15th International Heat Transfer Conference (IHTC-15) was held at Kyoto International Conference Center in Japan from August 10 to 15, 2014. The conference was chaired by Prof. Kasagi (Japan Science and Technology Agency, JST) and was hosted by the Heat Transfer Society of Japan and Science Council of Japan under the umbrella of the Assembly for International Heat Transfer Conferences,

AIHTC.

The IHTC, nicknamed the “Heat Transfer Olympic,” is the world’s premier conference in the field of heat and mass transfer, which was held every four year after 1966 as shown in Table 1.

On August 9th, it was started with the two adjunct special events:

- Joule Energy Contest (JENECON) for students of high schools and technical colleges, and
- Public Seminar by Prof. B. E. Launder (The Univ. of Manchester) relating to global warming.

With about 1,100 participants from more than 40 countries, the plenary lecture at the opening was delivered by Prof. Yoshikawa (CRDS of JST) with a title of “*Science of Scientific Advice*,” and it was followed up by the plenary panel session with a title of “*The Role of Thermal Science in Meeting Societal Challenges*.” After the traditional Fourier lecture by Prof. Bar-Cohen, President of AIHTC, 29 keynote

Table 1 History of IHTCs.

#	Year	City	Nation
1	1951	London	United Kingdom
		Atlantic City	United States
2	1961 1962	Boulder	United States
		London	United Kingdom
3	1966	Chicago	United States
4	1970	Paris Versailles	France
5	1974	<b>Tokyo</b>	<b>Japan</b>
6	1978	Toronto	Canada
7	1982	München	Germany
8	1986	San Francisco	United States
9	1990	Jerusalem	Israel
10	1994	Brighton	United Kingdom
11	1998	Kyongju	Korea
12	2002	Grenoble	France
13	2006	Sydney	Australia
14	2010	Washington	United States
15	2014	<b>Kyoto</b>	<b>Japan</b>
16	2018	<a href="#">Beijing</a>	<a href="#">China</a>
17	2022	<a href="#">Cape Town</a>	<a href="#">South Africa</a>



Fig. 1 Cover of program booklet.

lectures and 699 rigorously reviewed papers were presented in all oral sessions. Also, a panel session on nuclear disaster resilience was specially introduced on the basis of Fukushima accident.

The detail of the conference is shown in the program booklet (Fig. 1) and many documents freely available from the website (<http://www.ihtc-15.org>).

Hideo Yoshida, Professor  
Chair, Executive Committee of IHTC-15  
Department of Aeronautics and Astronautics Kyoto  
University, Japan  
E-mail: sakura@hideoyoshida.com

## Future Meetings

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

### **11th International Conference on Flow Dynamics (ICFD2014)**

Sendai, Japan, October 8-10, 2014  
Co-Chair: Prof. H. Kobayashi (Tohoku Univ.)  
Co-Chair: Prof. F. Lundell (KTH Royal Inst. Tech.)  
<http://www.ifs.tohoku.ac.jp/icfd2014/index.html>

### **2nd International Conference on Microfluidic Handling Systems (MFHS 2014)**

Freiburg, Germany, October 8-10, 2014  
Chair: Prof. Dr. G. Urban (Univ. Freiburg)  
Chair: Dr. P. Koltay (Univ. Freiburg)  
Chair: Dr. J. Lötters (Univ. Twente)  
<http://www.mfhs2014.uni-freiburg.de>

### **3rd International Conference on Countermeasures to Urban Heat Island**

Venice, Italy, October 13-15, 2014  
Chair: Prof. H. Akbari (Concordia Univ.)  
<http://www.ic2uhi.unimore.it/site/home.html>

### **Eurotherm seminar 103 "Nanoscale and Microscale Heat Transfer IV"**

Lyon, France, October 15-17, 2014  
Chair: R. Vaillon (CETHIL, Lyon)  
<http://eurotherm103.scientific-event.com>

### **5th International Symposium on Transport Phenomena (ISTP-25)**

Krabi, Thailand, 5-7 November 2014  
Chair: C. Charoenphonphanich (KMITL)  
Co-Chair: K. Hanamura (Tokyo Inst. of Technology)  
<http://me.eng.kmitl.ac.th/istp-25>

### **4th Asian Conference on Innovative Energy and Environmental Chemical Engineering (ASCON-IEEChE)**

Yeosu, Korea, November 9-12, 2014  
Chair: Prof. Yong Kang (Chungnam National Univ.)  
E-mail: choijhoo@konkuk.ac.kr  
<http://www.ascon-ieeche2014.org>

### **2014 ANS Winter Meeting and Nuclear Technology Expo**

Anaheim, CA, USA, November 9-13, 2014  
Disney Resort & Hotel  
Chair: Prof. Ed Halpin (PG&E)  
[http://www.new.ans.org/meetings/c\\_1](http://www.new.ans.org/meetings/c_1)

### **15th Brazilian Congress of Thermal Sciences and Engineering (ENCIT 2014)**

Belem, Brazil, November 10-13, 2014  
Chair: J. N. N. Quaresma  
<http://www.encit2014.org>

### **ASME 2014 International Mechanical Engineering Congress & Exposition (IMECE 2014)**

Montreal, Canada, November 14-20, 2014  
Chair: A. P. Rutgers (State Univ. New Jersey)  
<https://www.asmeconferences.org/Congress2014>

### **9th Korea-Japan Symposium Nuclear Thermal Hydraulics and Safety (NTHAS9)**

Buycu, Korea, November 16-19, 2014  
Chair: Dr. Chul-Hwa Song (KAERI)  
<http://www.nthas9.org>

### **67th Annual Meeting of the APS Division of Fluid Dynamics**

San Francisco, USA, November 23-25, 2014  
<http://apsdfd2014.stanford.edu>

### **12th Multiphase Flow Conference & Short Course**

Drenden, Germany, November 25-27, 2014  
<http://www.multiphase-conference.com>

### **5th International Conference on Fluid Mechanics and Fluid Power (FMFP-2014)**

Kanpur, India, December 12-14, 2014  
Patron: Dr. I. Manna (Director, IIT Kanpur)  
<http://www.iitk.ac.in/fmfp14>

**10th International Topical Meeting on Nuclear Thermal Hydraulics, Operation and Safety (NUTHOS-10)**

Okinawa, Japan, December 14-18, 2014  
Honorary Chair: Prof. M. Ishii (Purdue Univ.)  
Co-Chair: Prof. J. Kim (Korea Advanced Inst. Science & Tech.)  
General Chair: Prof. H. Ninokata (Politecnico Milano)  
<http://www.nuthos10.org>

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**METTI Spring School: Thermal Measurements and Inverse Techniques**

Biarritz, France, March 1-6, 2015  
Chair: Prof. J-L. Battaglia  
[http://www.sft.asso.fr/Local/sft/dir/user-4337/plaquette\\_METTI6.pdf](http://www.sft.asso.fr/Local/sft/dir/user-4337/plaquette_METTI6.pdf)

**4th Multiphase Flow Journeys (JEM 2015)**

Campinas, Brazil, March 23-27, 2015.  
<http://www.jem2015.fem.unicamp.br>

**Computational Thermal Radiation in Participating Media V**

Albi and Toulouse, France, April 1-3, 2015  
Chair: Prof. M. el Hafi  
E-mail: [mouna.elhafi@mines-albi.fr](mailto:mouna.elhafi@mines-albi.fr)

**10th European Conference on Industrial Furnaces and Boilers (INFUB)**

Gaia (Porto), Portugal, April 7-10, 2015  
Chair: Prof. V. Scherer (Ruhr Univ. Bochum)  
<http://www.cenertec.pt/infub>

**8th International Conference on Computational and Experimental Methods in Multiphase and Complex Flow**

València, Spain, April 20-22, 2015  
Chair: Prof. P. Vorobieff (Univ. New Mexico)  
Chair: Prof. C. A. Brebbia (Wessex Inst.)  
<http://www.wessex.ac.uk/15-conferences/multiphase-flow-2015.html>

**9th ECI Conference on Boiling and Condensation Heat Transfer**

Boulder, USA, April 26-30, 2015  
Chair: Prof. J. Kim (UMD)  
<http://www.boiling2015.umd.edu>

**23rd International Conference on Nuclear Engineering (ICONE23)**

Chiba, Japan, May 17-20, 2015  
Chair: Dr. S. Matsuura (Japan Nuclear Safety Inst.)  
<http://http://www.icone23.org/>

**ASME ATI UIT 2015**

Napoli, Italy, May 17-20, 2015  
Chair: Prof. R. Goldstein (Univ. Minnesota)  
Chair: Prof. O. Manca (Seconda Univ. Napoli)  
Chair: Prof. V. Naso (Univ. Napoli Federico II)  
Chair: Prof. T. Simon (Univ. of Minnesota)  
<http://www.asmeatiuit2015.com/public/index.php>

**International Symposium on Micro and Nano Technology (ISMNT-5)**

Calgary, Canada, May 18-20, 2015  
Chair: A.A. Mohamad (SSE, Univ. Calgary)  
Co-Chair: T. Ohara (Tohoku Univ.)  
Co-Chair: X. Zhang (Tsinghua Univ.)  
Email: [ismnt5ca@gmail.com](mailto:ismnt5ca@gmail.com)

**6th International Symposium on Advances in Computational Heat Transfer (CHT-15)**

Piscataway, USA, May 25-29, 2015  
<http://www.ichmt.org/cht-15>

**10th Pacific Symp Flow Visualization and Image Processing (PSFVIP-10)**

Naples, Italy, June 15-18, 2015  
Chair: G. Cardone (Univ. Naples)  
<http://www.psfvip10.unina.it/ocs2/index.php/2015/index/pages/view/Topics>

**The 13th Asian Symposium on Visualization**

Novosibirsk, Russia, June 22-26, 2015  
Chair: Prof. V.M. Fomin (ITAM SB RAS)  
<http://conf.nsc.ru/13asv/en>

**International Symposium on Heat and Mass Transfer in Biological and Medical Engineering (Biotransport-15)**

Izmir, Turkey, 5-10 July, 2015.  
<http://www.ichmt.org/biotr-15>

**ASME-JSME-KSME Joint Fluids Eng. Conference 2015**

Seoul, Korea, July 26-31, 2015  
Chair: Prof. N. Hur (Sogang Univ.)  
Chair: Prof. K. Walters (Mississippi State Univ.)  
Chair: Prof. C. Kato (Univ. Tokyo)  
<http://www.ajk2015-fed.org>

**9th International Symposium on Measurement Techniques for Multiphase Flows (9th ISMTMF)**

Toyako, Hokkaido, Japan, August 19-21, 2015  
Chair: Y. Murai (Hokkaido Univ.)  
Co-Chair: S. Hosokawa (Kobe Univ.)  
<http://ring-me.eng.hokudai.ac.jp/ismtmf2015/index.html>

**7th Baltic Heat Transfer Conference  
Tallinn, Estonia, 24-26 August, 2015**

Chair: Dr. D. Neshumayev  
<http://www.ttu.ee/bhtc2015>

**16th International Topical Meeting on Nuclear  
Reactor Thermalhydraulics (NURETH-16)**

Chicago from August 30–September 4, 2015  
Chair: Prof. M. Corradini (Univ. Wisconsin)  
Chair: Prof. H. Ninokata (Politecnico Milano)  
<http://nureth16.anl.gov>

**11th International Symposium on Particle Image  
Velocimetry (PIV 2015)**

Santa Barbara, USA, September 14-16, 2015  
<http://www.piv2015.org>

**Turbulence Heat and Mass Transfer, Symposium  
2015**

Sarajevo, Bosnia and Herzegovina, September 15-18,  
2015  
Chair: Prof. K. Hanjalic (Delft Univ. Tech.)  
Co-Chair: Prof. T. Miyauchi (Tokyo Inst. Tech.)  
<http://www.thmt-15.org>

**2015 European-Japanese Two-Phase Flow Group  
Meeting**

Zermatt, Switzerland, October 11-15, 2015

Chair: Prof. J. R. Thome (EPFL)  
E-mail: [john.thome@epfl.ch](mailto:john.thome@epfl.ch)

**International Gas Turbine Congress 2015 Tokyo  
(IGTC2015 Tokyo)**

Tokyo, Japan, November 15-20, 2015  
Chair: Prof. T. Watanabe (Univ. Tokyo)  
<http://www.gtsj.org/english/igtc/IGTC2015>

**12th International Conference on Power  
Engineering 2015(ICOPE-15)**

Yokohama, Japan, November 30 - December 3, 2015  
Chair: Prof. M. Osakabe (Tokyo Univ. Marine  
Science and Tech.)  
<http://www.jsme.or.jp/pes/ICOPE-15>

**Physical and Chemical Phenomena in Heat  
Exchangers and Multifunctional Reactors for  
Sustainable Technology**

Paris, France, Mid. 2015  
Chair: Prof. H. Peerhossaini  
E-mail: [hassan.peerhossaini@univ-paris-diderot.fr](mailto:hassan.peerhossaini@univ-paris-diderot.fr)

**1st European Workshop on Thermoacoustics**

Twente, The Netherlands, Mid/Autumn 2015  
Chair: Prof. T. van der Meer (Univ. Twente)  
E-mail: [T.H.vanderMeer@utwente.nl](mailto:T.H.vanderMeer@utwente.nl)

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