The International Conference on Jets, wakes and Separated Flows, the ICJWSF-2005, was held on October 5-8, 2005 at Toba Hotel International, Toba-shi, Mie, Japan.

This conference was originally prompted by the earlier successes of the symposiums and forums held at the past JSME (Japan Society of Mechanical Engineers) and JSMF (Japanese Society for Mechanical Engineers) meetings, and the 3rd and 4th ASME and JSME Joint Fluids Engineering Conferences, which were held in San Francisco in 1999 and in Honolulu in 2003. Moreover, over the past three years we have had research group meetings about the “Fundamentals of Jet Flows and Advanced Applications” at the JSME, FED (Fluid Engineering Division). This conference was sponsored by the JSME, JSMF, Mie University and other societies.

It goes without saying that free and wall bounded shear flows, particularly jets, wakes and separated flows are not only interesting but are also very important research subjects in the field of fluid mechanics and engineering. This is because they look like simple flows but include every important essence of fluid mechanics, for example, free and wall boundary layers, turbulent shear flows, eddy and large vortex structures, as well as possessing stability and control. Recently, there has been a particular interest in the coherent vortex structures of jets, wakes, and separated flows, and their control using various passive and active methods in order to improve the efficiency of momentum, heat and mass transfer, mixing, and diffusion in the various fields of industry, energy, and the environment.

We had invited 7 prominent speakers to give following keynote lectures and have received 117 excellent papers in total.

Keynote Lectures:

   Prof. F. Durst (Erlangen University, Germany)
2. On Active Control of Separation from Bluff Bodies  
   Prof. I. Wygnanski (The Univ. of Arizona, USA)  
3. A Perspective on Combining RANS and LES for  
   Computing Complex Flows and Heat Transfer  
   Prof. K. Hanyaliic (Delf Univ. of Technology, the  
   Netherlands)  
4. Aeroacoustics of Turbulent Jets: Flow Structure,  
   Noise Sources, and Control  
   Prof. E. Gutmark (Univ. of Cincinnati, USA)  
5. Toward Smart Control of Turbulent Jet Mixing and  
   Combustion  
   Prof. N. Kasagi (The Univ. of Tokyo, Japan)  
6. Research Works on Jets in Japan  
   Prof. K. Toyoda (Hokkaido Institute of  
   Technology, Japan)  
7. Recent Progress on Monotone Integrated Large  
   Eddy Simulation of free Jets  
   Dr. F. F. Grinstein (Los Alamos National Lab.,  
   USA)  

About 200 persons were presented from 17  
countries of Australia, Canada, China, France, Germany,  
Greek, Italy, Korea, Malaysia, the Netherlands, Pakistan,  
Russia, Singapore, Taiwan, the United Kingdom, USA,  
and Japan.  

The results of this conference have been brought  
together in the Proceedings and CD-ROM, and some  
selected papers are going to publish as the special issues  
of “Jets, Wakes and Separated Flows” of the JSME  

Based on successes of this conference, it was decided  
that “The 2nd International Conference on Jets, Wakes  
and Separated Flows” are going to be held in 2008 at  
Berlin, Germany.  

Prof. Toshihiko Shakouchi,  
Chairperson of ICJWSF-2005  
Graduate School of Engineering,  
Mie University  
Kurimamachiya-cho 1577, Tsu-shi,  
514-8507, Japan  
Phone: +81-59-231-9384  
Fax: +81-59-231-9663  
E-mail: shako@mach.mie-u.ac.jp

The JSMF Annual Meeting 2006 will be held at Ishikawa, Kanazawa Institute of Technology  
on 4th-6th August, 2006. During the Meeting,, the 25th Multiphase Flow Symposium will be  
held 5th.
The term "Advanced Fluid Information" (AFI) was created by the Institute of Fluid Science with the intention of signifying a paradigm shift in fluid dynamics research (experimental, numerical, or theoretical) such as a full use of distributed or vector computational technologies.

The fifth AFI (AFI-2005) was held in Institute of Fluid Science, Tohoku University, Sendai, Japan (December 8-9, 2005). This AFI was held in collaboration with JAXA (Japan Aerospace Exploration Agency) since IFS and JAXA came to the global agreement to promote researches on aerospace sciences in 2005.

In this AFI-2005, latest works on the scope of Aerospace Science/Rarefied Gas/Plasma, and Biofluid Science/Engineering were presented and discussed in the oral or poster sessions. Also, some fruits of the IFS supercomputer system that was renewed on this October were introduced.

The first session OS1 focuses on the topic of Aerospace Science/Rarefied Gas/Plasma Science. We have invited one plenary speakers and six invited speakers in the session.

Plenary Lecture:
Prof. Mikhail S. Ivanov (Rus. Acad. Sci.)
Title: "High-Altitude Aerothermodynamics of Space Vehicles"

Invited Speakers:
1. Prof. Alexey Rebrov (Rus. Acad. Sci.)
   Title: "Gas Jet Deposition of Thin Polymer Films and Polymer Nanoparticles"
2. Dr. Takuji Kurotaki (JAXA)
   Title: "Numerical Simulation of Subsonic Flow with High Accuracy and Resolution"
3. Prof. Kenichi Nanbu (IFS, Tohoku Univ.)
   Title: "Particle Modeling of Plasmas and Gases in Materials Processing"
4. Prof. Tomohide Niimi (Nagoya Univ.)
   Title: "Optical Diagnostic Methods for High Knudsen Number Flows"
5. Dr. Masato Sakurai (JAXA)
   Title: "Fluid Experiments under Microgravity Conditions"
6. Prof. Shigeru Obayashi (IFS, Tohoku Univ.)
   Title: "Multi-Objective Design Exploration for Multidisciplinary Design Optimization Problems"

The second session OS2 focuses on the topic of Biofluid Science/Engineering.

We have invited one plenary speakers and five invited speakers.

Plenary Lecture:
Prof. Daniel A. Ruefenacht (Geneva University Hospital)
Title: "Integration of Biomedical Information for the Management of Cerebral Aneurysms: @neurIST"

Invited Speakers:
1. Prof. Bastien Chopard (University of Geneva)
   Title: "Comparison of Various Stent Performance Metrics: a Lattice Boltzmann Approach"
2. Prof. Tong-Miin Liou (National Tsing Hua University)
   Title: "Numerical and Experimental Studies on Pulsatile Flow in Angled Aneurysms Anchored on a Curved Parent Vessel"
3. Dr. Ryutaro Himeno (RIKEN)
   Title: "Computational Biomechanical Project and Voxel Human Model at RIKEN"
4. Prof. Toshiyuki Hayase (IFS, Tohoku Univ.)
   Title: "Transdisciplinary Methodology Integrating Measurement and Simulation in Application of Complex Biomedical Flows"
5. Prof. Makoto Ohta (IFS, Tohoku Univ.)
   Title: "Development of Fundamental Technologies with Use of in-vitro and in-silico Models for Endovascular Treatments"

The poster session was organized by a combination of short presentations and discussions with posters. All participants gather in one room. Every participant can attend all short presentations and can discuss directly to the posters of one's interest.

Planned every organized and poster sessions were resulted in a great success. These sessions also showed the broad and vivid activities of AFI to the overseas participants.

Prof. Kenichi Nanbu,
(Chairperson of AFI2005)
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E-mail: nanbu@ifs.tohoku.ac.jp
I attended, as one of the coordinating scientists for Japan, China and South-East Asian countries, the 18th National and 7th ISHMT-ASME Heat and Mass Transfer Conference which was held at IIT Guwahati, INDIA, during 4-6 January 2006.

The ISHMT organized the first National Heat and Mass Transfer Conference at the Indian Institute of Technology Madras in 1971 and subsequently the conference has been held once in every two years at different places across the country. Since 1994, ISHMT and the American Society of Mechanical Engineers (ASME) have been jointly organizing this conference. The 18th National & 7th ISHMT-ASME Heat and Mass Transfer Conference will be held at the Indian Institute of Technology Guwahati.

This is the first visit to India and also to the conference. This conference was a very big one, which had more than 500 leading researchers from academia, R&D organizations and industries from 20 different countries. A total of 365 research papers, including 2 plenary and 17 keynote papers, covering almost all areas of heat and mass transfer would be presented during the conference. And before the conference, two pre-conference programs (A Professional Development Course on Fundamentals of Fuel Cell Components and Systems and An International Workshop on Treatment of Thermal Radiation in Heat Transfer Problems, January 2-3, 2006, IIT Guwahati) also were held.

I was very surprised and happy to see many familiar Indian-Americans, who were born in India and now live in USA. I had seen most of them in the conference held in USA before. They are very active, therefore, it would not be an exaggeration to say that they underpin the development achieved by the heat and mass transfer fields in USA Meanwhile, I felt lonely because only two people from Japan were there including me.

Another person was Professor S. Maruyama for Tohoku University who gave the keynote lecture on “Radiative heat transfer in nano to mega-scale systems”. However, to my regret, I could not listen to his lecture. While the conference committee had reserved various hotels for our participants of the conference and transports were available from the hotels to the conference venue and back, the bus for our staying hotel was unpunctual and was often more than an hour late.

During the trip to India, the biggest benefit was for me to experience a big difference of the toilet system between Japan and India.

By Masaru Ishizuka, Professor Dr.-Eng. Dept. of Mechanical Systems Engineering, Toyama Prefectural University, 5180 Kurokawa,Imizu, Toyama 939-0398, Japan E-mail: ishizuka@pu-toyama.ac.jp

An Announcement from Editor

The JSMF gives internet-service for ICMF members.

You can read updated ICeM NEWSLETTER by visiting JSMF homepage

Future Meetings
Following list includes Conference Name, Place, Date and Contact.

**Eurotherm Seminar 78 “Computational Thermal Radiation in Participating Media II”**
Poitiers, France, April 5-7, 2006
Dr. Denis Lemonnier, Heat Transfer Laboratory, ENSMA, Poitiers, France
LET- ENSMA, BP. 40109
86961 Futuroscope Chasseneuil, France
Tel.: +33 5 49 49 81 16
Fax: +33 5 49 49 81 01
E-mail: euro78@ensma.fr
http://www.euro78.ensma.fr/

**The Fifth World Congress on Particle Technology**
Orlando, Florida, USA, April 23-27, 2006
Prof. George E. Klinzing
University of Pittsburgh
Tel: (+1) 412-624-0784
E-mail: confchair@wcpt5.org
http://www.wcpt5.org/

**6th International Conference on Boiling Heat Transfer VI**
Spoleto, Italy, May 7-12, 2006
Dr. Gian Piero Celata,
ENEA Casaccia, Institute of Thermal Fluid Dynamics,
Via Anguillarese 301, 00060 Santa Maria di Galeria, Rome, Italy,
Tel.: +39 06 3048 3905
Fax: +39 06 3048 3026
E-mail: celata@casaccia.enea.it
http://www.engconfintl.org/6ak.html

**ASME ATI Conference**
Milan, Italy, May 14-17, 2006
ATI, Sez. Lombardia
Tel: +39 02.78.49.89
Fax: +39.76.00.94.42
E-mail: atilombardia@atilombardia.overweb.it
http://www.asmeati2006.it

**The Eleventh Asian Congress of Fluid Mechanics (11ACFM)**
Kuala Lumpur, Malaysia, May 22-25, 2006
Prof. C. S. Ow
E-mail: acfm@iem.org.my
http://11acfm.mmu.edu.my/

**ITherm 2006**
San Diego, CA, USA, May 30 - June 2, 2006
Prof. Bahgat G. Sammakia
Director, Integrated Electronics Engineering Center
State University of New York at Binghamton
P. O. Box 6000, Verstal Parkway East
Binghamton, NY 13902-6000 USA
Phone: 607-777-6880
E-mail: bahgat@binghamton.edu
http://www.itherm.org/

**ANS Annual Meeting**
Reno, NV, June 4-8, 2006
Dr. Joseph Parrish, Energy Northwest
Dr. Louis E. Pardi, Washington Group International, Inc.
http://www.ans.org/meetings/index.cgi?c=n

**Second International Conference on Transport Phenomena in Micro and Nanodevices**
Il Ciocco Hotel and Conference Center, Barga, Italy, June 11-15, 2006
Prof. Mohamed Gad-el-Hak
Department of Mechanical Engineering
Virginia Commonwealth University
Richmond, VA 23284-3015, U.S.A.
Tel: 1-804-828-3576
Fax: 1-804-827-7030
E-mail: gadelhak@vcu.edu
http://engconfintl.org/6at.html

**13th International Symposium on “Applications of Laser Techniques to Fluid Mechanics”**
Lisbon, Portugal, June 26-29, 2006
Prof. R. J. Adrian, Arizona State University, USA
Prof. D. F. G. Durão, Universidade Lusiada, Portugal
Prof. K. Hishida, Keio University, Japan
Prof. A. L. Moreira, Instituto Superior Técnico, Portugal
Prof. C. Tropea, Technical University of Darmstadt, Germany
E-mail: llaser@dem.ist.utl.pt
http://in3.dem.ist.utl.pt/lxlaser2006/

**4th International Energy Conversion Engineering Conference (IECEC 2006)**
San Diego, California, USA, June 26-29, 2006
Dr. Robert J Pinkerton
http://www.aiaa.org/content.cfm?pageid=230&lumeetingid=1309

**14th International Conference on Nuclear Engineering (ICONE14)**
Miami, Florida, USA, July 17-20, 2006
Dr. Randall Roe, Burns and Roe, U.S.
Prof. Michael Corradini, University of Wisconsin, U.S.
Prof. Yasuo Koizumi, Kogakuin University, Japan
Dr. Dieter Matzner, PBMR Pty, Republic of South Africa
Africa
http://www.conferencetoolbox.org/ICONE14/

Sixteenth Symposium on Thermophysical Properties
Boulder, CO, USA, July 30 - August 4, 2006
Prof. Dan Friend
Physical and Chemical Properties Division, 838.08
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80303 U.S.A.
Fax: 303-497-5224
Prof. Andreas Mandelis
Department of Mechanical Engineering
University of Toronto
5 King's College Road
Toronto, Ontario M5S 3G8 Canada
E-mail: symp16@nist.gov
http://symp16.boulder.nist.gov/

International Heat Transfer Conference (IHTC-13)
Sydney, NSW, Australia, August 13-18, 2006
Prof. Graham de Vahl Davis
School of Mechanical and Manufacturing Engineering
The University of New South Wales
Sydney, NSW, Australia 2052
Tel: +61 2 9385 4099
Fax: +61 2 9963 1222
E-mail: ihtc-13@unsw.edu.au

The 5th International Conference for Conveying and Handling of Particulate Solids (CHoPS-05)
Hilton Hotel, Sorrento, Italy, August 27-31, 2006
Prof. Paolo Massacci, University of Rome
Tel: +39-06-44585-605
Fax: +39-06-44585-618
E-mail: paolo.massacci@uniroma1.it
http://www.ortra.com/solids/

10th International Congress on Liquid Atomization and Spray Systems (ICLASS-2006)
Kyoto, Japan, August 27 - September 1, 2006
Prof. H. Gen Fujimoto, Doshisha Univ., Japan
E-mail: iclass06@mail.doshisha.ac.jp
http://comb.doshisha.ac.jp/iclass2006/

17th International Symposium on Transport Phenomena (ISTP-17)
Toyama International Conference Center, Toyama, Japan, September 4-8, 2006
Prof. Masaru Ishizuka, Toyama Prefectural University
Department of Mechanical Systems Engineering
E-mail: ishizuka@pu-toyama.ac.jp
E-mail: istp17@pac.ne.jp
http://www.pac.ne.jp/istp17/

12th International Symposium on Flow Visualization
Göttingen, Germany, September 10-14, 2006
Dr. Jürgen Kompenhans
Dr. Andreas Schröder
German Aerospace Center (DLR)
Institute of Aerodynamics and Flow Technology
Göttingen, Germany
E-mail: Isfv2006@dlr.de
http://www.isfv.org/

IUTAM Symposium 2006 NAGOYA, “Computational Physics and New Perspectives in Turbulence”
Integrated Building in Nagoya University, Nagoya, Japan, September 11-14, 2006
Prof. Y. Kaneda, Nagoya Univ.
E-mail: iutam-nagoya@fluid.cse.nagoya-u.ac.jp
http://www.fluid.cse.nagoya-u.ac.jp/~Ekaneda-lab/iutam2006/

The 8th International Heat Pipe Symposium
Kumamoto University, Kumamoto, Japan, September 24-27, 2006
Prof. Hideaki Imura
Department of Mechanical Engineering and Materials Science,
Faculty of Engineering, Kumamoto University
2-39-1 Kurokami, Kumamoto, 860-8555
Tel & Fax: (+81)-96-342-3752
E-mail: imura@gpo.kumamoto-u.ac.jp
http://www.mech.kumamoto-u.ac.jp/8ihps/

5th International Symposium on Turbulence, Heat and Mass Transfer
Dubrovnik, Croatia, September 25-29, 2006
Prof. K. Hanjalic, Chairman
Department of Multi-scale Physics
Delft University of Technology
Lorentzweg 1, 2628 CJ Delft, The Netherlands
Tel: +31 15 278 1735 and +49 6151 16 6280
Fax: +31 15 278 1204 and +49 6151 16 4754
E-mail: hanjalic@ws.tn.tudelft.nl
http://130.83.243.201/thmt-06/announce.html

International Workshop on Process Intensification in Fluid and Particle Engineering (IWPI2006)
Kobe University Centennial Hall, Kobe, Japan, October 15-18, 2006
Prof. Yushi Hirata, Osaka University, Japan
Prof. Hiromoto Usui, Kobe University, Japan
http://www.kobe-u.ac.jp/~iwpi/

ASME International Mechanical Engineering Congress and Exposition
Chicago, Illinois, November 5-10, 2006
Dr. Said Jahanmir  
MiTi Heart Corporation  
E-mail: sjahanmir@mitiheart.com  
http://www.asmeconferences.org/Congress06

ANS Winter Meeting and Nuclear Technology Expo  
Albuquerque, NM, November 12-16, 2006  
Dr. Robert W. Kuckuck (Los Alamos National Laboratory)  
Dr. Thomas O. Hunter (Sandia National Laboratory)  
http://www.ans.org/meetings/index.cgi?c=n

Fifth International Conference on Computational Fluid Dynamics in the Process Industries  
Melbourne, Australia, December 13-15, 2006  
Dr. M P Schwarz  
CSIRO Division of Minerals  
Box 312  
Clayton South Vic 3169  
Australia  
Tel: +61 3 9545 8500  
Fax: +61 3 9562 8919  
E-mail: cfd@minerals.csiro.au  

3rd BSME - ASME International Conference on Thermal Engineering  
Dhaka, Bangladesh, December 20-22, 2006  
Prof. M. H. Khan  
Prof. A.K.M. Sadrul Islam  
Dept of Mechanical and Chemical Engineering Islamic University of Technology  
Board Bazar, Gazipur-1704, Bangladesh  
E-mail: sadrul@iutoic-dhaka.edu, sadrul@me.buet.ac.bd  
http://www.iutoic-dhaka.edu/bsme_asme_icte2006/

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International Conference on Multiphase Flow (ICMF Leipzig 2007)  
Leipzig, Germany, July 9-13 2007  
Prof. Dr.-Ing. Martin Sommerfeld  
Martin-Luther-Universität Halle-Wittenberg  
Fachbereich Ingenieurwissenschaften  
Institut für Verfahrenstechnik  
Lehrstuhl Mechanische Verfahrenstechnik  
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Executive Division of The Japanese Society for Multiphase Flow (2005-2006)

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Prof. K.-E. Wirth, Universität Erlangen-Nürnberg

Schedule:
Deadline for abstracts: 15. November 2006
Deadline for full paper: 31. March 2007
Early registration until: 31. March 2007

Conference Location
The conference will be held at the Conference Centre (CCL) in Leipzig, Germany which is located within the area of the new trade fair center. The CCL can be easily reached from the central station of Leipzig by S-Bahn or Tram within about 20 min. All the major hotels are within walking distance from the central station.
History of the Conference
The International Conference on Multiphase Flow (ICMF) first was held in TSUKUBA, Japan in 1991 and the second ICMF took place in KYOTO, Japan in 1995. During this conference it was decided to establish an International Governing Board which takes care about the major aspects of the conference and decides about the future locations. Due to the great importance of the field it was furthermore decided to hold the conference every three years successively in Asia including Australia, Europe including Africa, Russia and the Near East and America. Hence, ICMF 98 was held in LYON, France; ICMF 2001 in NEW ORLEANS, USA and ICMF 2004 in YOKOHAMA, Japan. In Yokohama the Governing Board decided to have the ICMF 2007 in LEIPZIG, Germany.

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Prof. Lixing Zhou, Tsinghua University, China

Scope of the Conference
The conference will be devoted to all aspects of Multiphase Flow. Researchers from all over the world should gather in order to introduce their recent advances in the field and thereby promote the exchange of new ideas, results and techniques. The conference should be a key event in Multiphase Flow and support the advancement of science in this very important field. The major research areas relevant for the conference are:

- Elementary processes for particles, droplets, bubbles and nano-particles (dispersed Multiphase Flows)
- Interaction phenomena in dense dispersed multiphase flows (collision, agglomeration, coalescence)
- Discontinuous multiphase flows (annular, slug, wavy and stratified flows, flow pattern regimes and instabilities)
- Multiphase flows with phase change (boiling, evaporation and condensation, reactive flows)
- Numerical methods for multiphase flows (Euler/Euler, Euler/Lagrange, DNS, LES, VOF, interface tracking, population balance, molecular modelling)
- Instrumentation for multiphase flow analysis (holography, tomography, LDA, PDA, imaging techniques)
- Applications (chemical engineering, biotechnology, nuclear engineering, combustion, automotive, nanotechnology, life science, environment)

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