

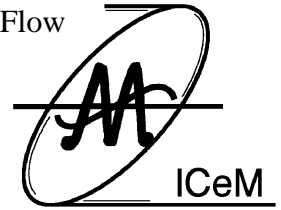


The International Information Center for Multiphase Flow

NEWSLETTER

No. 33, December 2009

The Japanese Society for Multiphase Flow



ExHFT-7, 7th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics June 28 – July 3, 2009, Krakow, Poland

by Gian Piero Celata

The 7th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, ExHFT-7, has been held in Krakow during June 28 – July 3, 2009. The ExHFT-7 Conference has been organized by Prof. Janusz Szmyd, Conference chairman, and his Polish colleagues and has been attended by more than 300 delegates, coming from a large number of Countries. About 270 papers have been accepted for presentation at the Conference, starting from 398 abstracts submitted, 350 accepted, 310 final manuscripts submitted and about 270 accepted after review process. The ratio between participants (300+) and papers (270+) has been very good, also considering the international economic crisis.

The Conference format planned 12 keynote (plenary) lectures, and 3-5 parallel stand-up sessions where a total of about 140 papers has been presented. Remaining 130 papers have been presented in two poster session on Tuesday and Thursday. The number of no-show has been quite reduced, mainly in poster sessions. The Conference has been opened by two

plenary lectures given by the Nusselt-Reynolds Prize winners: Dimos Poulikakos (*heat transfer*, Zurich, Switzerland), Katepalli R. Sreenivasan (*fluid mechanics*, President of ICTP, The Abdul Salam International Centre for Theoretical Physics, Trieste, Italy).

The keynote lectures, very well received, have provided an updated state-of-the-art in some of the most important topics of heat transfer, fluid mechanics and thermodynamics, spanning on alternative energies (fusion, hydrogen from solar energy), micro-systems and microsensors, heat transfer in the human body, CO₂ capture and storage.

Stand-up sessions have dealt with sixteen different topics, from the classic ones (heat transfer, fluid mechanics) to the most advanced and innovative (micro-nanosystems, fuel cell systems, advance energy and environmental systems, biological systems).

Poster sessions have been well organized, both in terms of time available for discussion and room available for poster display and people around them, and well attended.

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.

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Dr. Kosuke Hayashi
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E-mail: hayashi@mech.kobe-u.ac.jp

Manuscripts have been collected in a CD-ROM distributed to participants at the Conference, along with a volume of abstracts.

All in all, an excellent Conference, with papers of good quality, an outstanding organization, and a lovely city as venue.

The next, 8th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, ExHFT-8, will be held in 2013 in Lisbon, tentatively in late June, organized by the IST, Instituto Superior Técnico of Lisbon, and chaired by Professors Pedro Coelho and Mario Costa.

During the Conference, at the meeting of the As-

sembly of World Conferences on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, AWC, Prof. Nobuhide Kasagi, The University of Tokyo, has been appointed as the new President of the AWC, replacing Dr. Gian Piero Celata, ENEA.

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6th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion July 11–15, 2009, Xi'an, China

by Liejin Guo

1. General Information

The 6th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion (ISMF2009) held successfully on July 11-15, 2009 in Xi'an in China, Which was organized by State Key Laboratory of Multiphase Flow in Power Engineering (SKLMF), Xi'an Jiaotong University, China. The conference Chairman was Prof. Liejin Guo, Director of SKLMF.

More than 300 scientists, researchers, and engineers from 128 institutes, academic communities or university in 24 countries attended this symposium. Eight plenary lectures, eighteen keynoters and about 240 regular papers have presented at this symposium.

The Symposium opening ceremony held in the morning of July 12. Prof. Liejin Guo hosted the opening ceremony. First of all, on behalf of the conference organization, Prof. Guo expressed sincere appreciation for joining of all participants. Next, Prof. Y. Matsumoto, co-chairman of the symposium and vice-president of Tokyo University, Japan, delivered a speech. Prof. Tianjian Lu, vice-president of Xi'an Jiaotong University, gave a welcome speech on behalf of the host university. As one representative of all co-organizers, Dr. Jun Ji, the Director of the Department of Engineering Thermal Physics and Energy Utilization of the Natural Science Foundation of China to give a speech. Next, Prof. Wenquan Tao,

member of scientific council of ICHMT, gave a congratulatory address on behalf of Chinese Society of Engineering Thermophysics. Besides all participants, some members from ICHMT and the Governing Board of ICMF (International Conference of Multiphase Flow) have been invited to present this symposium. Principal chiefs of Societies of Multiphase Flow from USA, Japan, Germany, Israel, which are leaders in the field of multiphase flow and related research, have been presented.

In the morning of July 12 and 13, eight professors were invited to give plenary lectures for all participants. Their lectures have demonstrated the newest progresses and trends on related research fields. After plenary lectures, at six parallel sessions 232 attendants gave oral presentations about their latest research results for their respective fields. Twenty-six professors were invited to give keynote lectures at the parallel sessions.

The financial supports from National Natural Science Foundation of China (NSFC) and Xi'an Jiaotong University (XJTU) were highly appreciated and acknowledged. As co-organizers, the International Council on Heat and Mass Transfer (ICHMT) and International Society of Hydrogen Energy delivered great supports since the very beginning.

2. Conference History

It's well known that research on multiphase flow, heat mass transfer and energy conversion has been going on widely. In order to promote the research and academic exchange in this important field, we have held five international symposiums in Xi'an. Owing to the great efforts of Professor T.N. Veziroglu and Professor Xuejun Chen, the first symposium, originally named China-U.S. Seminar on Two-phase Flows and Heat Transfer, was successfully held in 1984. The second symposium, formally named International Symposium on Multiphase Flow and Heat Transfer, was held in 1989. Following that, the third and the fourth symposiums were held successfully in 1994 and 1999. Considering the environmental protection and the global warming problem, we extended the scope of the conference to include the energy conversion problems, mainly the renewable clean energy and new technologies of energy conversion, such as solar energy, hydrogen energy, fuel cell and so on.

From the fifth symposium, which was held in 2005, it was renamed as its present name – International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion. This extended platform has provided and will provide a further opportunity of exchanging fresh information and experience for the scholars in these fields.

The present symposium is organized by the State Key Laboratory of Multiphase Flow in Power Engineering, with financial supports from National Natural Science Foundation of China and Xi'an Jiaotong University. Since 6th Symposium, the series of conferences came under the aegis of the International Center for Heat and Mass Transfer (ICHMT) and became one of co-organized conferences in ICHMT.

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Xi'an Jiaotong University
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The 6th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion (ISMF2009)



5th European-Japanese Two-Phase Flow Group Meeting September 20–25, 2009, Spoleto, Italy

by Gian Piero Celata

The 5th Meeting of the European-Japanese Two-Phase Flow Group has been held in Spoleto, Italy on 20-25 September 2009, after the previous editions in Portoroz (June 1998), Tsukuba (September 2000), Certosa di Pontignano (September 2003) and Kyoto (September 2006). The Meeting has been chaired by Gian Piero Celata, and co-chaired by Koichi Hishida, Akio Tomiyama, Iztok Zun and Paolo Di Marco.

A total of 46 papers and 2 keynote lectures, one from Japan and one from Europe, have been presented in oral plenary sessions, with the participation of 51 delegates, 31 from Europe and 20 from Japan, representing major schools in two-phase flow. The meeting has been held in the beautiful city of Spoleto, where participants enjoyed the ancient and artistic sites as well the excellent local food, inside the nice and unusual environment of the former church of *San Lorenzo illuminatore*.

Keynote lectures titles are:

Katsuya Tsuchiya, Dynamic analysis of gas-liquid-solid dispersion – Quest for ultimate bubbles and drops, dealing with multiphase flow reactors applica-

tions and confined motion of single and multi-bubbles
Cees van der Geld, Shape oscillations of a boiling bubble, dealing with bubbles generated at an artificial cavity that, under certain conditions, become violently oscillating in shape

The 46 papers have been grouped in fourteen sessions dealing with bubbly flow structure and dynamics, boiling, condensation and flow structure in microscale, gas-liquid flow, measurement techniques, numerical methods, flow boiling and condensation heat transfer, flow pattern, turbulence. Major schools of thought in Japan and European Countries have presented the latest results of their researches in the two-phase flow field, with the spirit typical of this type of meeting: presentation of last minute results, most frequently unpublished, with the aim of the maximum benefit from discussion with colleagues in a friendly atmosphere. Unlikely from conventional Conferences, where papers are submitted months in advance, fresh material is presented at the meeting and outcome from discussion can be easily take back home to work on before writing the final paper to be published in the archival literature.



Enough time has been allocated for presentation of papers and discussion, always very animated and vivid, as well as for ad hoc meeting and free time.

Papers or powerpoint presentations will be collected in a CD-ROM and distributed to the participants after the meeting. A selection of papers will be published in a special issue of the Journals 'Multiphase Science and Technology', published by Begell House (Guest Editor: Akio Tomiyama).

The 6th meeting of the European-Japanese Two-Phase Flow Group will be held in Kumamoto,

Kyushu Island, in September 2012, chaired by Prof. Sadatomi.

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13th International Topical Meeting on Nuclear Reactor Thermal Hydraulics September 27 - October 2, 2009, Kanazawa, Japan

by Hisashi Ninokata and Michio Murase

The 13th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-13) was successfully held in Kanazawa, Japan, September 27 – October 2, 2009. It was attended by about 420 researchers and engineers, more than 350 technical contributions. It is noted that 220 out of 420 participants were from overseas.

NURETH is an important series of international topical meetings in nuclear reactor thermal hydraulics and related areas. It covers all aspects of thermal hydraulics assumed in the different types of nuclear reactors of current and future generations. In particular, the meeting has placed a specific emphasis on understanding fundamental thermal hydraulic phenomena as well as presenting developments and applications of new innovative technologies in experiments and numerical calculations.

Since the first meeting in 1980, the Thermal Hydraulics Division of the American Nuclear Society (ANS-THD) has sponsored NURETH meetings held in the USA and co-sponsored the meetings held outside the USA. Twelve meetings have been held in Saratoga Springs (NY, 1980), Santa Barbara (CA, 1983), Newport (RI, 1985), Karlsruhe (Germany, 1989), Salt Lake City (UT, 1992), Grenoble (France, 1993), Saratoga Springs (NY, 1995), Kyoto (Japan, 1997), San Francisco (CA, 1999), Seoul (Korea, 2003), Avignon (France, 2005) and Pittsburgh (PA,

2007).

NURETH-13 in Kanazawa was organized by the Atomic Energy Society of Japan (AESJ) in cooperation with the ANS-THD, along with many cosponsoring organizations from the international technical community. The meeting was also financially supported by Ishikawa Prefecture and Kanazawa City, many domestic and international organizations including the Federation of Electric Power Companies of Japan, the Commemorative Organization for the Japan World Exposition ('70), and there was cooperation with IAEA.

With the nuclear renaissance upon us, nuclear energy continues to be faced with major challenges such as radioactive waste management, economics, proliferation, and safety. We recognize the heightened importance of plant economy and safety, where thermal hydraulics research and development play significant roles in supporting safe operation of nuclear plants and fostering safety culture. In view of the global nature of these nuclear issues, it is imperative that forums such as NURETH provide a global communications channel to enhance exchange of ideas and information and encourage cross-fertilization of research and development efforts among all nuclear countries.

The technical program consisted of about 350 presentations which were delivered in four full days

starting from Monday (Sept. 28, 2009) through Thursday (Oct. 1, 2009). All technical papers that have been accepted for presentation were reviewed by 3 reviewers for each paper. The numbers of session organizers for paper review and reviewers were 107 and 413, respectively. Four plenary lectures were delivered by leading authorities from around the world and 8 keynote lectures were given by professionals in their respective fields on cutting edge science of interest to NURETH-13 participants. The proceedings for full-length papers have been published on a CD-ROM with a complementary bound volume of abstracts. Publication of selected papers in archival journals will also be arranged. On October 2, 2009

(Friday), 76 participants joined the technical tour to visit the prototype fast breeder reactor "Monju".

The next meeting, NURETH-14, will be held in Toronto, Canada, September 25 – 29, 2011.

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Vice Presidents K. Mishima (Kyoto University)

T. Kunugi (Kyoto University)

T. Saito (Shizuoka University)

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Chair of Planning Division

F. Takemura (National Institute of Advanced Industrial Science
and Technology)

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Chair of General Affairs Division

K. Tsujimoto (Mie University)

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WWW homepage : <http://www.jsmf.gr.jp/>

Future Meetings

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

10th Asian Symposium on Visualization (ASV-10)

Vijayawada, Andhra Pradesh, India, December 7-10, 2009

Prof. E. Rathakrishnan
Department of Aerospace Engineering
Indian Institute of Technology Kanpur, India
E-mail: erath@iitk.ac.in
<http://www.10asv.org/Home.html>

<http://www.cicmenergie.net/>

Joint International Symposia on 3rd Micro & Nanotechnology and Micro/Nanoscale Energy Conversion & Trans- port-2010

Seoul, Korea, March 21 - 24, 2010
Prof. Seung Jin Song
Secretary General
School of Mechanical and Aerospace Engineering
Seoul National University
Seoul 151-742, Korea
Tel: +82-2-880-1667
Fax: +82-2-883-0179
E-Mail: sjsong@snu.ac.kr
<http://mnt-mect.snu.ac.kr/>

ASME 2009 2nd Micro/Nanoscale Heat & Mass Transfer International Conference

Shanghai, China, December 18-21, 2009
Dr. Ping Cheng, Shanghai Jiaotong University
MNHMT09@sju.edu.cn
<http://www.asmeconferences.org/MNHMT09/>

ICCFD 2009: International Conference on Com- putational Fluid Dynamics

Bangkok, Thailand, December 25-27, 2009
<http://www.waset.org/wcset09/bangkok/iccfd/>

----- 2010 -----

9th International ISHMT-ASME Heat and Mass Transfer Conference

Bombay, India, January 4-6, 2010
Prof. S. Srinivasa Murthy
IIT Madras, Chennai, India
E-mail: ssmurthy@iitm.ac.in
<http://www.me.iitb.ac.in/~ishmt2010/>

27th Short Courses on Modelling and Computation of Multiphase Flows

Part I: Bases
Part IIA: New Reactor Systems and Methods
Part IIB: Computational Multi-Fluid Dynamics (CMFD)
Part III: CMFD with Commercial Codes
Zurich, Switzerland, February 15-19, 2010
Prof. G. Yadigaroglu
E-mail: yadi@ethz.ch
<http://www.ascomp.ch/ShortCourse>

2nd International Conference on Energy Conversion and Conservation (CICME10)

Hammamet, Tunisia, April 22 - 25, 2010
H. AGUIR ELALIMI
LESTE - TUNISIA
E-mail: contact@cicmenergie.net
Tel: + 216 73 50 15 97
Fax: +216 73 90 79 75

International Conference on Computational & Experimental Engineering and Sciences (IC- CES'10)

Las Vegas, USA, March 28 - April 1, 2010
E-mail: icces@icces.org
<http://www.icces.org/index.html>

ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems

Sorrento, Italy, May 16 - 19, 2010
Nicola Bianco
Dipartimento di Energetica, termofluidodinamica
applicata e condizionamenti ambientali (DETEC)
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Fax: + 39 081 2390364
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E-mail: sergio.nardini@unina2.it
Tel: +39 081 5010347
Fax: + 39 081 5010204
<http://www.ichmt.org/asme-ati-uit-10/>

ASME/JSME 18th International Conference on Nuclear Engineering (ICONE18/2010)

Xi'an, China, May 17 - 21, 2010

ICONE 18 Secretariat
E-mail: icone18@ns.org.cn
<http://www.asmeconferences.org/ICONE18/>

31st Annual Conference of the Canadian Nuclear Society

Montréal, Canada, May 24 - 27, 2010
Papers and Technical Program
E-mail: cns2010@aecl.ca
General
Denise Rouben, CNS Office Manager
E-mail: cns-snc@on.aibn.com
Tel: +1-416-977-7620
<http://www.cns-snc.ca/conf2010.html>

European Nuclear Conference (NC 2010)

Barcelona, Spain, May 30 - June 3, 2010
Prof. Frank Deconinck, SCK-CEN, Belgium
Dr. José Emeterio Gutiérrez, Westinghouse Technology Services, Spain
Tel: +32 2 505 30 54, Fax: +32 2 502 39 02
E-mail: enc2010@euronuclear.org
<http://www.enc2010.org>

International Conference on Multiphase Flow 2010 (ICMF-2010)

Tampa, Florida, USA, May 30 - June 4, 2010
E-mail: icmf-2010@ufl.edu
<http://conferences.dce.ufl.edu/ICMF2010/>

ITherm 2010

Las Vegas, Nevada, USA, June 2-5, 2010
Dr. Tom Lee
E-mail: tleea@tsmc.com
Tel: 408-382-8070 (office)
TSMC North America, San Jose, CA
<http://www.ithermconference.org/>

2010 ANS Annual Meeting

San Diego, CA, USA, June 13 - 17, 2010
General Chair:
Ross T. Ridenoure
Southern California Edison
Program Chair:
Dr. A. Kurshad Muftuoglu
GE-Hitachi Nuclear Energy
http://www.new.ans.org/meetings/c_1

3rd ECI International Conference on Porous Media and its Applications in Science, Engineering and Industry

Tuscany, Italy, June 20-24, 2010
Prof. Kambiz Vafai

Department of Mechanical Engineering, University of California, Riverside, USA
E-mail: vafai@enr.ucr.edu
<http://www.engconfintl.org/10ap.html>

The 14th International Symposium on Flow Visualization (ISFV14)

Daegu, Korea, June 21 - 24, 2010
E-mail: info@isfv14.org
<http://isfv14.org/>

15th International Symposium on Application of Laser Techniques to Fluid Mechanics (LISBON 2010)

Lisbon, Portugal, July 5 - 8, 2010
Prof. António Moreira
Instituto Superior Técnico
Center for Innovation, Technology and Policy Research
Av. Rovisco Pais 1049 Lisboa, Portugal
Phone: +351 21 841 97 24
Fax: +351 21 849 61 56
E-mail: llaser.editions@dem.ist.utl.pt
<http://lces.dem.ist.utl.pt/lxllaser/lxllaser2010/>

7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2010)

Antalya, Turkey, July 19 - 21, 2010
Prof. Josua P Meyer
Department of Mechanical and Aeronautical Engineering, University of Pretoria
Pretoria, South Africa
E-mail: josua.meyer@up.ac.za
<http://www.hefat.net>

International Heat Transfer Conference (IHTC-14)

Washington D.C., USA, August 8 -10, 2010
<http://www.asmeconferences.org/IHTC14/>

23rd European Conference on Liquid Atomization and Spray Systems (ILASS-Europe 2010)

Brno, Czech, September 6 - 8, 2010
Dr. Matej Forman
Energy Institute
Faculty of Mechanical Engineering
Brno University of Technology
Technická 2896/2
616 69 Brno, Czech Republic
E-mail: info@ilasseurope2010.org
<http://www.ilasseurope2010.org/>

6th World Congress on Industrial Process Tomography (WCIPT6)

Beijing, China, September 6-9, 2010
E-mail: wcipt6@ncepu.edu.cn
<http://www.isipt.org/wcipt/>

Eighth International Conference on Advances in Fluid Mechanics (Advances in Fluid Mechanics 2010)

Algarve, Portugal, September 15 - 17, 2010
<http://www.wessex.ac.uk/10-conferences/afm-2010.html>

Fifth International Topical Team Workshop on Two-Phase Systems for Ground and Space Applications

Kyoto, Japan, September 26 - 29, 2010
Dr. Yulia Kabova
Microgravity Research Center
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Universite Libre de Bruxelles
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<http://hti.ulb.ac.be/workshop-10/index.html>

The 8th International Topical Meeting on Nuclear Thermal-Hydraulics, Operation and Safety (NUTHOS-8)

Shanghai, China, October 10 - 14, 2010
NUTHOS-8 Office
School of Nuclear Science and Engineering
Shanghai Jiao Tong University
800 Dongchuan Road
200240 Shanghai, China
Phone: +86 21 3420 5056
Fax: + 86 21 34205182
Email: nuthos-8@sjtu.edu.cn
<http://www.nuthos-8.org>

2010 ANS Winter Meeting and Nuclear Technology Expo

Las Vegas, USA, November 7 - 11, 2010
Technical Program Chair:
Dr. Charles R. (Chip) Martin
Senior Engineer,
Defense Nuclear Facilities Safety Board
http://www.new.ans.org/meetings/c_1

----- 2011 -----

The 8th ASME-JSME Thermal Engineering Joint Conference (AJTEC2011)

Honolulu, Hawaii, USA, March 13-17, 2011
Prof. Koichi Hishida, Keio University
E-mail: hishida@sd.keio.ac.jp
Prof. James Klausner, University of Florida
E-mail: klaus@ufl.edu
Prof. Isao Satoh, Tokyo Institute of Technology,
E-mail: satohi@mep.titech.ac.jp
<http://www.jsme.or.jp/conference/AJTEC2011/>

2011 ANS Annual Meeting

Hollywood, USA, June 26 - 30, 2011
Program Chair:
Dr. Charlotta E. Sanders
Principal Nuclear Engineer, Holtec Center
http://www.new.ans.org/meetings/c_1

ASME-JSME-KSME Fluids Engineering Conference 2011 (AJK2011)

Hamamatsu, Japan, July 24 -29, 2011
Executive committee
E-mail: dajk2011@ipc.shizuoka.ac.jp

2011ANS/ENS International Winter Meeting and Nuclear Technology Expo

Washington, DC, USA, October 30 - December 3, 2011
Program Chair:
David R. Anderson
Electric Boat Corporation
http://www.new.ans.org/meetings/c_1

----- 2012 -----

11th World Filtration Congress (WFC11)

Graz, Austria, April 14-18, 2012
Prof. Wilhelm Höflinger, Vienna University of Technology
Prof. Gerd Mauschwitz, Vienna University of Technology
E-mail: info@wfc11.at
<http://www.wfc11.at>

2012 ANS Annual Meeting

Chicago, USA, June 24 - 28, 2012
Program Chair:
Ray Klann
Argonne National Laboratory
http://www.new.ans.org/meetings/c_1

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