

The International Information Center for Multiphase Flow

NEWSLETTER

No. 37, March 2012

The Japanese Society for Multiphase Flow



7th International Symposium on Measurement Techniques for Multiphase Flow September 17-19, 2011, Tianjin, China

by Feng Dong

The 7th International Symposium on Measurement Techniques for Multiphase Flows (ISMTMF'2011) was successfully held in Tianjin, China, September 17-19, 2011. This conference was organized by Tianjin University, and co-organized by University of Shanghai for Science and Technology, Southeast University and Zhejiang University. Over 120 scholars and delegate from China, Japan, UK, Germany, France, Norway, Poland, Russia, Brazil, Israel and Singapore participated in the conference at Tianjin University. The participants discussed in depth around the conference's theme of "the research development and technique progressing measurement techniques for multiphase flows under the condition of modern industry and current social development", and exchanged academic ideas to present new research achievements and the future direction in the measurement techniques multiphase flows.

The International Symposium on Measurement

Techniques for Multiphase Flow was sponsored by the Chinese Society for Measurement, co-sponsored by the Japanese Society for Multiphase Flow, the National Natural Science Foundation of China, and the Chinese Academy of Sciences. The conference aim at providing an academic exchange the stage to scholars, academics and engineers from different countries that engages in measurement techniques for multiphase flows, and promoting the development of these techniques. symposium was held in Nanjing, China (1995). After this launching, the symposium had been held five in Beijing, China (1998); Fukui, Japan (2001); Hangzhou, China (2004); Macau, China (2006) and Okinawa, Japan (2008). With the symposiums were held, the level of research on measurement techniques for multiphase flows has been developed and improved rapidly.

In this symposium, following five invited plenary lectures were contained in the proceedings.

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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- Prof. Koji OKAMOTO (The University of Tokyo, Japan): Multi-phase Flow Quantitative Visualization for Verification and Validation.
- Prof. Xiaoshu CAI (University of Shanghai for Science and Technology, China): Recent Progress on In-line Measurement Techniques for Particulate Two-phase Flow.
- Prof. Yong YAN (University of Kent, UK): Recent Advances in Flow Sensors and Instrumentation for Coal Fired Power Plant Optimization.
- Prof. Mao YE (Dalian Institute of Chemical Physics, Chinese Academy of Sciences): Two-Phase Flow Measurement Techniques in Industrial Solid-Gas Catalytic Processes: Current Applications and Future Perspectives.
- Prof. Ningde JIN (Tianjin University, China): Flow Pattern, Water Holdup, and Local Flow Characteristics Measurements in Horizontal Oil-Water Two-Phase Flow Pipes.

The major topics of the conference include:

PIV (Particle Image Velocimetry), impedance; electromagnetic, electrostatic, optical & lase, pressure etc. new methods and techniques;

- ❖ Intelligent measurement instruments, devices and information processing;
- ♦ Process tomography and flow visualization;
- ♦ Multiphase flow models, heat & mass transfer;
- ♦ Bubbles, droplets, particle and flow patterns;
- Measurement and characteristic analysis of micro multiphase flows
- Other measurement methods of multiphase systems.

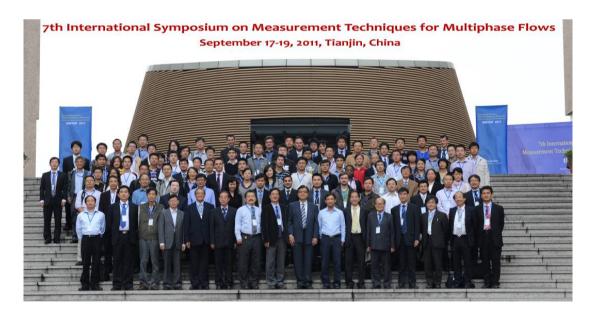
There are 90 selected papers presented in 14 sessions of the ISMTMF 2011 respectively.

The success of the conference will promote the development of measurement techniques for multiphase flows immensely. The next conference (8th International Symposium on Measurement Techniques for Multiphase Flows) will be held in Guangzhou, China, in 2013.

Prof. Feng Dong

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Fourteenth International Topical Meeting on Nuclear Reactor Thermal hydraulics, NURETH-14 September 25-29, 2011, Toronto, Ontario, Canada

by Jovica Riznic

The fourteenth International Topical Meeting on Nuclear reactor Thermal hydraulics (NURETH-14), with the theme "Helping the Environment with Advances in Thermal Hydraulics" was held at the Hilton Toronto Hotel in Toronto, Canada from September 25 to 29, 2011. Taking place at the same time and venue there were number of embedded progress review and topical meetings of international collaborative research projects, programmes and working groups under the umbrella of the International Atomic Energy Agency (IAEA), the Organization for Economic Cooperation and Development (OECD) and several professional associations and consortia. Among others, those include Supercritical Water Cooled Reactors, OECD Thermal hydraulics Benchmarks, Thermal hydraulics Activities in the Consortium for Advanced Simulation of LWRs (CASL), TOPFLOW-Pressurized Thermal Shock experimental program, IAEA Session on Benchmark Analyses of Sodium Natural Convection in the Upper Plenum of the Monju Reactor Vessel, OECD NEA Session on Analysis and Management of Accidents (Best-Estimate Methods and Uncertainty Evaluation-BEMUSE, CFD Studies, Severe Accidents), etc. Two professional development workshops were also held in conjunction with the NURETH-14: BEPU (Best Estimate code and Plus Uncertainty) methodology, and the Third OECD NRC Workshop on Benchmark Based on NUPEC Sub-Channel and Bundle Tests (PSBT). Combined, the NURETH-14 offered more than 100 plenary and technical sessions, panels, keynote lectures, workshops and complementary events. The meeting was organized by the Canadian Nuclear Society in cooperation with the Thermal Hydraulics Division of the American Nuclear Society, IAEA and OECD Nuclear Energy Agency (NEA).

The presentations over the four and half day conference program followed this list of technical tracks. Some of the titles actually indicate session or related event titles: Two-Phase Flow and Heat Transfer Fundamentals; Code Developments and

Applications; Severe Accidents and Fires; Advanced Code Developments; Operation and Safety of Existing Reactors; Instrumentation, Measurement Techniques and Testing; Advanced Reactors Thermal hydraulics; Waste Management Thermal hydraulics; Thermal hydraulics of Non-Electricity Generating Nuclear Equipment; Special Topics (Organized Sessions) including: Thermal hydraulics and Structural Integrity in Connection to Aging and Life Extension; -BEPU (Best Estimate code Plus Uncertainty) Method, CSAU, Statistical Methods; Study of Pressurized Thermal Shock; OECD session on Thermal hydraulic Benchmarks; OECD/NEA session on Analysis and Management of Accidents (BE-MUSE, CFD Studies); IAEA session on Benchmark Analyses of Sodium Natural Convection in the Upper Plenum of the Monju Reactor Vessel; Westinghouse session on Full Spectrum LOCA - A Realistic LOCA Evaluation Model Applicable to the Full Range of Break Sizes using WCOBRA/TRAC-TF2 Code; -Development, Assessment and Applications of TRACE Mini-Symposium on Flow Induced Vibration in Nuclear Components; Mini-Symposium on Thermal hydraulics of Non-Unity Prandtl Number Flows; Mini-Symposium on Pressure Surges in Nuclear Power Plants; Thermal hydraulics Activities in the Consortium for Advanced Simulation of LWRs (CASL).

Social and networking events offered at the meeting include a welcome reception, luncheons and a banquet with entertainment provided by Dr Masanori Naitoh of the Institute of Applied Energy. Excursions for accompanying guests of meeting attendees included a city sightseeing and CN Tower tours and a visit to Niagara Falls as well. At the conference banquet, special awards were presented to the NURETH-14 Outstanding Reviewers who helped the Technical Program Committee with papers reviews. The Outstanding Reviewer Awards were presented to Dr Stephen Bajorek of US NRC, Professor Martin Rohde of the Delft University of Technology, Professor Jianqiang Shan of Xiao Jiaotong

University and Dr Slavko Vasic of the CNSC. The Most Valuable Reviewer Award went to Dr Michio Murase of the Institute of Nuclear Safety Systems.

There were 460 registrants from 32 countries attending the meeting, of which approximately 95 were students. More than 430 technical papers, out of 650 abstracts and 540 draft manuscripts were selected for presentation during the five days of conference. The conference opening included plenary lectures given by Professor Mamoru Ishii of Purdue University, the NURETH-14 Honorary Chair, and Dr Dominique Bestion of Commisariat a l'Energie Atomique. The topical Panel sessions addressed

Lessons Learned from the Fukushima Accident, Issues and Future Directions of Thermal Hydraulic Research, and Development and Global Cooperation in Nuclear Education and Research. The proceedings of full-length papers were published on a DVD-ROM that was distributed to registrants at the meeting. Full details of the NURETH-14 conference program and the proceedings can be found at the conference website http://nureth14.org.

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T. Okawa (Osaka University)

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A. Kawahara (Kumamoto University)

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Future Meetings

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

29th series of Short Courses on Modelling and Computation of Multiphase Flows

Zurich, Switzerland, February 13 - 17, 2012 E-mail: shortcourse@lke.mavt.ethz.ch http://www.lke.mavt.ethz.ch/shortcourse/

3rd ASME Nanoscale Heat and Mass Transfer International Conference (MNHMT2012)

Atlanta, Georgia, March 3 - 6, 2012

Lee Hawkins Program Manager

Knowledge & Community Sector

ASME International

Three Park Avenue, MS 23S1, New York, NY 10016

Tel/Fax: 972-414-3260, 972-414-3268

E-mail: hawkinsl@asme.org

http://www.asmeconferences.org/MNHMT2012/

8th KSME-JSME Thermal and Fluids Engineering Conference (TFEC8)

Incheon, Korea, March 18 - 21, 2012

Professor Yong Tae Kang,

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http://www.tfec8.org/

11th World Filtration Congress (WFC11)

Graz, Austria, April 14 - 18, 2012

Prof. Wilhelm Höflinger

Vienna University of Technology

Prof. Gerd Mauschitz,

Vienna University of Technology

E-mail: info@wfc11.at http://www.wfc11.at

11th International Hydrocolloids Conference

Indiana, USA, May 14 - 18, 2012

Publishing Content Coordinator:

Margaret Zhao

Tel: +86-10-85208826

E-mail: content-hydrocolloids12@elsevier.com http://www.international-hydrocolloids-conference.com/

24th Annual Conference of the Institute for Liquid Atomization and Spray Systems: North and South America (ILASS-Americas 2012)

San Antonio, Texas, USA, May 20 - 23, 2012

Technical Program Chair:

Dr. Mario Trujillo

Department of Mechanical Engineering

Engine Research Center, University of Wisconsin

2043 Mechanical Engineering Building

1513 University Avenue 53706

Tex/Fax: 814-321-6690/608-265-2316

E-mail: mtrujillo@wisc.edu

Meeting Arrangements Coordinator and Exhibits

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Lake Jackson, TX 77566

Tel: 979-266-9419

E-mail: Charles.lipp@lakeinnovation.com

http://www.ilass.org/2012/

8th ECI International Conference on Boiling and Condensation Heat Transfer

Lausanne, Switzerland, June 3 - 7, 2012

Conference Director

Prof. John R. Thome

Laboratory of Heat and Mass Transfer (LTCM),

École Polytechnique Fédérale de Lausanne (EPFL),

CH-1015 Lausanne. Switzerland

Tel/Fax: (+41 21) 693 59 81/82/(+41 21) 693 59 60

E-mail: john.thome@epfl.ch

Conference Secretary

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Japan-US Seminar on Two-Phase Flow Dynamics

Tokyo, Japan, June 7 - 12, 2012

Co-organizer:

Professor Tomoji Takamasa,

Faculty of Marine Technology, Tokyo University of

Marine Science and Technology,

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http://www2.kaiyodai.ac.jp/~takamasa/J-US2012/

2012 ANS Annual Meeting

Chicago, USA, June 24 - 28, 2012

General Chair:

Amir Shahkarami (Senior VP, Exelon Generation)

Program Chair:

Ray Klann (Argonne National Laboratory)

http://www.new.ans.org/meetings/c_1

9th International Conference on Advances in Fluid Mechanics 2012

Split. Croatia. June 26 - 28, 2012

Conference Secretariat:

Irene Moreno Millan

Wessex Institute of Technology

Ashurst Lodge, Ashurst

Southampton, SO40 7AA

Tel/Fax: 44 (0) 238 0293223/44 (0) 238 0292853

E-mail: imoreno@wessex.ac.uk

http://www.wessex.ac.uk/12-conferences/afm-2012.html

Advances in Computational Heat Transfer (CHT-12)

Bath, England, July 1 - 6, 2012

Symposium Co-Chairs:

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E-mail: farinc@ichmt.org

http://www.ichmt.org/cht-12/

5th Asian Particle Technology Symposium (APT2012)

Singapore, July 2-5, 2012

Conference Secretariat:

Professional Activities Centre

Faculty of Engineering

National University of Singapore

Tel/Fax: +65 6516 5113/+65 6874 5097

E-mail: APT2012@nus.edu.sg

http://www.apt2012.org

ASME 2012 Heat Transfer, Fluids Engineering, & Nanochannels, Microchannels, and Minichannels Conferences

ASME 2012 Fluids Engineering Division Summer Meeting

ASME 2012 Summer Heat Transfer Conference

Puerto Rico, USA, July 8 - 12, 2012

http://www.asmeconferences.org/HTFNMM2012/http://www.asmeconferences.org/FEDSM2012/http://www.asmeconferences.org/HT2012/

20th International Conference on Nuclear Engineering collocated with the ASME 2012 Power Conference (ICONE20)

Anaheim, CA, USA, July 30 - August 3, 2012

Secretary/Controller:

Mr. James Wieters

SCE&G VC Sumer Nuclear Station

Jenkinsville, SC

E-mail: jwieters@scana.com

https://www.asmeconferences.org/ICONE20POWER

2012/index.cfm

16th International Symposium on Application of Laser Techniques to Fluid Dynamics

Lisbon, Portugal, July 9-12, 2012

Symposium Assistant, scientific program and exhibition

Vânia Silvério

Tel/Fax: +351 21 841 97 24/+351 21 849 61 56

E-mail: llaser@dem.ist.utl.pt

http://ltces.dem.ist.utl.pt/lxlaser/lxlaser2012/

8th International Conference on Modeling and Diagnostics for Advanced Engine Systems (CO-MODIA 2012)

Fukuoka, Japan, July 23 - 26, 2012

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comodia2012 tech@power.mech.okayama-u.ac.jp

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Toshiaki Kitagawa, Professor

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15th International Symposium on Flow Visualization (ISFV15)

Minsk, Belarus, July 25 - 28, 2012

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ISFV15 Chairman

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Ms Olga Meleeva ISFV15 Secretary

Mobile: +375 292 60 80 82 E-mail: isfv15@hmti.ac.by http://www.isfv15.com/

8th International Symposium on Cavitation (CAV2012)

Singapore, August 14 - 16, 2012

Tel: +65 6338 2321

General conference matters: 8thcav2012@gmail.com Sponsor matters: casey_ang@sparkplanners.com.sg Payment matters: cav2012@ntu.edu.sg http://cav2012.sg/index.html

23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012)

Beijing, China, August 19-24, 2012

ICTAM2012 Secretariat:

The Chinese Society of Theoretical and Applied

Mechanics

15 Beisihuanxi Road Beijing 100190, China Fax: +86 10 62559588

E-mail: ictam2012@cstam.org.cn http://www.ictam2012.org/

12th International Conference on Liquid Atomization and Spray Systems (ICLASS 2012)

Heidelberg, Germany, September 2 - 6, 2012

General information:

E-mail: info@iclass2012.org

Local Arrangements and Scientific Program:

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Interdisciplinary Center for Scientific Computing Heidelberg University, Heidelberg, Germany Tel/Fax: +49(0)6221-54-6114/+49(0)6221-54-6111

E-mail: gutheil@uni-hd.de

Scientific Program and Exhibition:

Cam Tropea

Center for Smart Interfaces

TU Darmstadt, Darmstadt, Germany

Tel/Fax: +49(0)6151-16-6610/+49(0)6151-16-2048

E-mail: ctropea@sla.tu-darmstadt.de

http://iclass2012.org/

6th European-Japanese Two-Phase Flow Group Meeting

Kumamoto, Japan, September 23 - 28, 2012

Prof. Michio Sadatomi

Dept. of Mechanical System Engineering

Kumamoto University

E-mail: sadatomi@mech.kumamoto-u.ac.jp

7th International Symposium on Turbulence, Heat and Mass Transfer

Palermo, Italy, September 24 - 27, 2012

Organizing Secretary:
Domenico Borello, Ph.D.
E-mail: thmt12@thmt-12.org
http://www.thmt-12.org/

2012 AIChE Annual Meeting

Pittsburgh, USA, Octorber 28 - Nobemver 2, 2012

Annual Meeting Program Chair:

Lorenz T. Biegler

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Tel/Fax: 412-268-2232/412-268-7139

E-mail: 2012Annual@aiche.org

http://www.aiche.org/Conferences/AnnualMeeting/in

dex.aspx

2012 ANS Winter Meeting and Nuclear Technology Expo

San Diego, CA, USA, November 11 - 15, 2012 http://www.new.ans.org/meetings/c 1

	2013	
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International Conference on Multiphase Flow 2013 (ICMF2013)

Jeju, Korea, May 26 - 31, 2013

2013 ANS Annual Meeting

Atlanta, USA, June 16 - 20, 2013 http://www.new.ans.org/meetings/c 1

8th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics (ExHFT8)

Lisbon, Portugal, June 24 - 27, 2013

8th International Symposium on Turbulence and Shear Flow Phenomena

Poitiers, France, August 28 - 30, 2013

2013 ANS Winter Meeting and Nuclear Technology Expo

Washington DC, USA, November 10 - 14, 2013 http://www.new.ans.org/meetings/c 1

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